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STORMWATER POLLUTION CONTROL PLAN

April 8, 2014

**Prepared For:
Engineering and Sciences Magnet School
500 Boston Post Road
West Haven, Connecticut 06516**

BVH INTEGRATED SERVICES, P.C.

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1. Introduction

This Stormwater Pollution Control Plan (SWPCP) is being provided as required by Section 5(b) of the 2013 General Permit for the Discharge of Stormwater and Dewatering from Construction Activities.

The project involves Construction of a new school and associated parking, walks, landscape features and utilities. The project site is located at 500 Boston Post Road, West Haven, Connecticut at the intersection of Rockview Street. The project site borders the University of New Haven campus. The school property is approximately 4.75 acres; however, the total site disturbance is approximately 6.5 Acres due to construction of offsite improvements. For the purposes of this permit the term "project site" will refer to the 6.5 acres of disturbed area.

The project is expected to begin in May of 2014 and be completed in July of 2016. It is anticipated that construction activities will take place between 7:00am and 3:30pm Monday through Friday and there will not be any work on weekends or holidays.

The project area is outside the 100 year flood plain; refer to FEMA FIRM included in Appendix B.

There will not be any Mining Operations on this project.

The sanitary flow from the new building will be connected to a municipal system and there will not be any combined storm-sanitary flows from this project.

This project site is outside the Coastal Boundary. Refer to map included in Appendix B.

Based on our review of the latest available maps (NDDDB December 2013) the project site is outside areas designated as State and Federal Listed Species & Significant Natural Communities. Refer to map in Appendix B.

Based on review of the CT DEEP Aquifer Protection Area Maps website, there are no Aquifer Protection Areas in the city of West Haven.

Stormwater is not discharged to a Publicly Owned Treatment Works.

Stormwater discharges from this project will not discharge entirely to Groundwater.

Stormwater from this project does not discharge to a Wild and Scenic River.

There are Certification Requirements for Registrants and Other Individuals.

Plan Review and Certification by a District is not required for this Locally Exempt Project.

Based on our review of the latest available data there will not be any discharges to Impaired Waters.



A historical pre-screening was conducted per the instructions in the permit. The screening answered "yes" to questions 1 and 2 regarding proximity to surface water and soil types. The answers to questions 3 and 4 are "no." Based on the results of the pre-screening Daniel Forrest was contacted per the permit instructions. Upon review of the site by the State Historic Preservation Office it was determined that no historic properties will be affected by this project. Refer to Appendix K for correspondence from the State Historic Preservation Office.

The City of West Haven was contacted regarding the history of the site. The city concluded that none of the parcels which make up the site are within a historic district, nor are the properties listed as locally identified historic property. Refer to Appendix K for correspondence from the City of West Haven.

The Connecticut Register of Historic Places does not list any historic places on or adjacent to the property.

An Environmental Site Assessment was performed and does not list any historically significant findings on the proposed site. The Environmental Site Assessment is included in Appendix I.

Maps documenting answers to questions in Part IV of the general permit are included in Appendix B.

Relevant Information:

Owner:	City of New Haven Board of Education
Developer:	City of New Haven Board of Education
Architect:	Svigals and Partners
Engineer:	BVH Integrated Services, P.C.
Contractor:	To Be Determined
Applicant:	City of New Haven Board of Education – Contact William Clark
Permittee:	City of New Haven Board of Education – Contact William Clark

2. Site Description and Drainage Patterns

Introduction

The proposed project includes the construction of a new Engineering and Sciences Magnet School and associated walks, site walls, stairs, and parking. The project also consists of many outdoor educational features such as raised planter gardens and an observation deck at an existing wetland.

Pre-Development Conditions

The existing site consists of multiple residential and commercial buildings, as well as an existing parking lot serving the University of New Haven. Many of the buildings are currently vacant and the remainder will be vacant prior to the start of demolition and construction. The project will combine the multiple lots into a single lot.

The site is a mix of wooded areas, rock outcroppings, lawn, and gravel. The site generally pitches from north to south. Much of the area drains to an existing wetland (WL-1), while a portion of the site drains to Rockview Street and is collected by a piped system.

Two existing underground detention systems drain to the site. The "Existing North Detention" is located in a University of New Haven (UNH) parking lot adjacent to Orange Ave. The outlet for this system is conveyed by pipe to the wetland WL-1. The second system is located in a UNH parking lot towards the south of the site and is referred to as "Existing South Detention". This system is also conveyed by pipe to the wetland WL-1.

Pre Development flows from wetland WL-1 and Rockview Street convene at Tile Street in an existing catch basin which is labeled design point (DP1). Refer to drawing SD-1 in Appendix C for locations of DP1, WL-1 and existing detention systems.

Post-Development Conditions

The project will include installation of new piping in Rockview Street and Tile Street and provide new catch basins and manhole structures.

The proposed development will increase impervious area on the site. To mitigate the increase in peak flows caused by the increased impervious area, the stormwater system will utilize underground detention. One system will be installed in the Upper (northern) portion of the proposed main parking area, while the other will be installed in the Lower (southern) portion of the main parking area. The Lower detention system will be connected to the existing South Detention so that the two systems act as one. The existing South Detention outlet will be removed and a new outlet control structure will be installed.

The proposed development will also cause an increase in the volume of stormwater runoff. The outlets from the detention systems will be piped to the Rockview Street drainage system in order to not cause an increase in volume of stormwater runoff to the wetlands. Due to high ground water levels infiltration of stormwater runoff on this site is unlikely, however, runoff entering the underground detention system will be allowed to infiltrate through perforations in the piping if the capacity is available. Refer to the Geotechnical Report and



Figure 1 in Appendix J for groundwater levels. The stormwater calculations did not account for infiltration when sizing the detention systems.

A small parking lot will be constructed on the southern portion of the site. Runoff from this parking area will be collected by a catch basin, treated and then discharged to the existing wetlands.

Post Development flows from wetland WL-1 and Rockview Street convene at Tile Street in an existing catch basin labeled design point (DP1). Refer to drawing SD-2 in Appendix C.

Existing outfalls listed under **Part V Stormwater Discharge Information** of the Permit Application are labeled on drawings SD-1 and SD-2 in Appendix C.

The CN value for the total area draining to DP1 will increase from 76 to 83.



3. Construction Sequencing

3.1. Phasing/Logistics

A Site Logistics Plan has been created by the Owner's Contract Administrator. A copy of that plan is included in Appendix F. The selected contractor will further develop and implement a phasing plan prior to construction. The phasing plan will be added to the Stormwater Pollution Control Plan. The contractor will also need to coordinate the sedimentation and erosion control measures with the plan and specifications.

Prior to any excavation on the site, temporary erosion and sedimentation controls will be installed. The contractor will be responsible for installing and maintaining all erosion control measures as well as modifications needed during all phases of the project.

The construction will proceed so that no more than 5 acres of area will be disturbed at any one time; refer to Disturbance Sequence Plan included in Appendix F.



4. Control Measures

4.1. Erosion and Sediment Control Plan

The sediment and erosion control for this project will address all disturbed areas. A variety of measures will be used throughout construction for soil erosion and sediment control. Multiple details are included with the plan for measures such as sediment traps, silt fence, stock pile stabilization and inlet protection. All measures taken and implemented shall comply with specifications and standards of the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

The installation of erosion control and stabilization shall be installed and coordinated by the contractor throughout the project.

For additional information refer to the soil erosion and sediment control plans and details included in Appendix D.

4.2. Maintenance

All erosion and sediment controls will be maintained throughout the project. All components of the sediment and erosion controls will be inspected, repaired, and enhanced routinely throughout the course of this project. All damaged slopes or protective measures shall be repaired and restored as soon as possible.

All protective measures shall be inspected and maintained prior to each forecast storm event in addition to the routine inspections.

The contractor shall have additional materials on site throughout the project to repair or replace all components of the sedimentation and erosion control system at any time.

Maintenance shall include the replacement of sediment collection areas, removal of collected sediment, and restoration of all measures protecting adjacent areas from runoff during the project.

A copy of a sample erosion and sediment controls checklist is included on the drawings in Appendix D.

4.3. Dewatering

Prior to initiating any dewatering, a plan must be proposed by the contractor for review and approval by the owner's representative. All dewatering activities shall be in accordance with the approved "General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities" and specification sections 310802-Dewatering and 312000-Site Earthwork. Polluted or contaminated dewatering shall comply with the Materials Management Plan and the specification section 026113-Handling of Contaminated Material. The contractor shall reroute surface water runoff away from excavated areas and not allow water to accumulate in excavations. The Contractor shall grade and ditch the site as necessary to direct



surface runoff away from open excavations and will not use excavated trenches as temporary drainage ditches. The contractor will also install dewatering as required to keep subgrades dry and convey groundwater away from excavations until dewatering is no longer required. Details for use with dewatering operations are included on drawings in Appendix D. Selected specification sections are included in Appendix G.

5. Runoff Reduction and Low Impact Development Information

The project site design is incorporating many unique aspects for learning opportunities. Outdoor classrooms will be constructed and used with the curriculum. Raised garden planting beds are being installed adjacent to the building for use by the students and staff. Lastly, an observation deck adjacent to the wetland, will be installed for use in educating students on wetland ecosystems.

Runoff Reduction

As stated under Section 2 the project will employ the use of underground detention structures to decrease the peak flows off the site. Due to high ground water levels infiltration of stormwater runoff on this site is unlikely, however, runoff entering the underground detention system will be allowed to infiltrate through perforations in the piping if the capacity is available. Refer to the Geotechnical Report and Figure 1 in Appendix J for groundwater levels. The stormwater calculations did not account for infiltration when sizing the detention systems.

Stormwater Treatment

Stormwater runoff will be treated using multiple measures in a “treatment train” approach. First, deep sump catch basins will be utilized which will allow sediments to settle out of runoff. Second, on the downstream end of each piping system a hydrodynamic separator water quality structure will be installed prior to discharge to the detention systems and the wetlands. The separators are sized in accordance with the 2004 Connecticut Stormwater Quality Manual by The Connecticut Department of Environmental Protection. Water quality calculations are included in Appendix E.

Routine maintenance as detailed below should be performed on catch basins, water quality structures and underground detention.

Catch Basins/Inlet Structures

- Trash and debris shall be removed from catch basin grates as often as necessary to ensure system can collect/intercept runoff.
- Structures shall be cleaned twice per year, removing all sediment from sumps and disposing of material in accordance with local regulations.
- Visual inspection of basin integrity and associated components shall be performed during cleaning and replaced or repaired as necessary.
- During dry flow periods, wash out drain pipes and clean catch basins to minimize future re-suspension.
- A maintenance log should be kept with amount of sediment removed, the date it was removed and a brief description of the condition of the structure.



Hydrodynamic Separator Water Quality Structure

- Structures shall be inspected for accumulated sediment on a quarterly basis and cleaned when the depth of sediment is in excess of one foot. Collected sediment shall be disposed of in accordance with local regulations.
- A maintenance log should be kept with amount of sediment removed, the date it was removed and a brief description of the condition of the structure.

Underground Stormwater Detention Structures

- Structures shall be cleaned twice per year, removing all sediment and disposing of material in accordance with local regulations.
- The system will incorporate inspection ports and access ports for cleaning. A maintenance log should be kept with amount of sediment removed, the date it was removed and a brief description of the condition of the structure



6. Inspections

6.1. Plan Implementation

The erosion and sediment control components will require inspection throughout the project by a Qualified Inspector as defined by the General Permit. The requirements of the Qualified Inspector are also defined in the General Permit.

The implementation portion of the General Permit requires up to 3 inspections within the first 90 days of the project. The Qualified Inspector will be required to report on the conditions, whether they are compliant or deficient. If the project conditions are acceptable after the first, second, or third inspection the project can move forward. If the conditions are still deficient after the third inspection the Qualified Inspector is required to report the findings to the CT DEEP who will then intervene.

6.2. Routine Inspections

The permittee is required to perform routine inspections for compliance as required in the General Permit. The routine inspections shall continue until a Notice of Termination has been submitted.

The permittee shall maintain a rain gauge on-site to monitor and document rainfall amounts.

A qualified inspector (provided by the permittee) shall routinely inspect all disturbed areas that have not been stabilized, all sedimentation and erosion control measures, stockpile areas, washout areas, site entrances/exits, etc. Inspections shall occur at least once a week and within 24 hours of an event that generates a discharge.

For storm events that occur on a weekend or holiday inspections are required within 24 hours only for storms that equal or exceed 0.5 inches. If storms are less than 0.5 inches the inspection can occur immediately at the start of the next business day.

6.3. Corrective Actions

Non-engineered corrective actions shall be implemented on site within 24 hours and incorporated into a revised plan with 3 calendar days of the date of inspection. Engineered corrective actions shall be implemented on site within 7 days and incorporated into a revised plan with 10 days of the date of inspection. During the period in which any corrective actions are being developed and have not yet been fully implemented, interim measures shall be implemented to minimize the potential for the discharge of pollutants from the site.

For more specific requirements refer to Section 5 (b) (4) of the general permit.



7. Turbidity Monitoring

7.1. Monitoring Requirements

This project requires Registration and therefore the General Permit requires sampling, monitoring, and reporting. Sampling and analysis are prescribed in 40 CFR Part 136.

7.2. Monitoring Frequency

Sampling is required at least once every month. When final stabilization of an outfall is achieved turbidity monitoring is no longer required.

7.3. Sampling

All samples shall be collected from discharges resulting from a storm event that occurs at least 24 hours after any previous storm event generating a stormwater discharge. Any sample containing snow or ice melt must be identified as such and, in the absence of a storm event, is not a valid sample. Samples shall be grab samples taken at least three separate times during a storm event and shall be representative of the flow and characteristics of the discharge. Samples may be taken manually or by an in-situ turbidity probe or other automatic sampling device equipped to take individual turbidity readings. The first sample shall be taken within the first hour of stormwater discharge, or at the start of normal working hours if samples are manually collected and discharge began outside of normal working hours.

7.4. Monitoring Reports

Within 30 days following the end of each month, permittees shall enter the stormwater sampling results on the Stormwater Monitoring Report (SMR) form, which is available on the CT DEEP website. If there was no discharge during the monitoring period, the permittee shall submit the form with the words "no discharge" entered in place of the monitoring results. If the permittee monitors a discharge more frequently than required by the general permit, the results shall be included in additional SMRs for that month.

Prior to one-hundred and eighty (180) days after the issuance of this permit, the Permittee may either submit monitoring data and other reports to the Department in hard copy form or electronically using NetDMR, after one-hundred and eighty (180) days after the issuance of this permit the Permittee shall begin reporting electronically using NetDMR.

For more specific requirements refer to Section 5 (c) of the general permit.



8. Other Controls

8.1. Waste Disposal

The Contractor will be responsible for the proper handling and disposal of construction waste and debris. All waste material shall be disposed of offsite according to all applicable federal, state and local laws and regulations. A Materials Management Plan (Appendix H) as well as specification section 026113-Contaminated Materials (Appendix G) give additional requirements for handling and disposal of waste.

8.2. Washout Areas

If on site washout of containers, vehicles, equipment, applicators etc will take place, the Contractor shall set up designated washout areas outside any buffers and at least 50 feet from any stream or other sensitive resource. Washout areas shall be flagged and all water used for washing shall be directed into a designated container or pit. Dumping of waste wash water into storm sewers is not permitted. Waste water for washing shall be disposed of per all applicable federal, state and local laws and regulations.

8.3. Sediment Tracking and Dust Control

Stone construction entrances and haul roads shall be installed and maintained where vehicles enter or leave the site. Inlet protection shall be installed as shown on the Soil Erosion and Sediment Control plans in Appendix D.

Dust suppression shall be provided in accordance with the erosion control specifications, the Materials Management Plan and 22a-174-18b of the Connecticut General Statutes for any construction activity that causes airborne particulates. An air monitoring program will be implemented per the Materials Management Plan requirements.

8.4. Chemical and Petroleum Storage

All chemical and petroleum product containers stored on the site (excluding those contained within vehicles and equipment) shall be provided with impermeable containment which will hold at least 110% of the volume of the largest container, or 10% of the total volume of all containers in the area, whichever is larger, without overflow from the containment area. All chemicals and their containers shall be stored under a roofed area except for those chemicals stored in containers of 100 gallon capacity or more, in which case a roof is not required. Double-walled tanks satisfy this requirement.



9. Records Keeping

The permittee shall retain copies of the plan and all reports required by the general permit, and all records used to complete the registration for this general permit, for a period of 5 years from the date that construction is complete. Inspection records must be retained for 5 years after the date of inspection. A copy of this plan shall be retained at the site until construction is complete.



10. Termination Requirements

At completion of construction a Notice of Termination must be filed with the commissioner. A project shall be considered complete after all post-construction measures and drainage structures are installed, cleaned, and functioning and the site has been stabilized for at least 3 months. A site is considered stabilized when there is no active erosion or sedimentation present and no disturbed areas remain exposed for all phases and silt fence and other temporary measures are removed. Once the site has been stabilized for at least 3 months, the registrant shall have the site inspected by a qualified inspector to confirm final stabilization. The registrant shall indicate compliance with this requirement on the Notice of Termination form.

A final copy of the stormwater pollution control plan and all inspection records shall be submitted to the design engineer and registrant.



11. Permittee and Contractor Certification Statements

Permittee Certification Statement

All documents, including but not limited to any notice, information or report, which is submitted to the commissioner under this re-registration of the general permit shall be signed by the permittee, or a duly authorized representative of the permittee, and by the individual or individuals responsible for actually preparing such document, each of whom shall certify in writing as follows:

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with section 22a-6 of the Connecticut General Statutes, pursuant to section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."

William Clark

Authorized Official

COO

Title

[Signature]

Signature

3/28/14

Date

Daniel Cefaratti

Preparer

P.E.

Title

[Signature]

Signature

4/8/14

Date



Contractor Certification Statement

The plan shall clearly identify each contractor and subcontractor that will perform construction activities on the site that have the potential to cause pollution of the waters of the State. The Plan shall include a copy of the certification statement in the "Contractor Certification Statement" section, below, signed by each such contractor and subcontractor.

<p>"I certify under penalty of the law that I have read and understand the terms and conditions of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with construction activities. I understand that as a contractor or subcontractor at the site, I am authorized by this General Permit, and must comply with the terms and conditions of this permit, including but not limited to the requirements of the Stormwater Pollution Control Plan prepared for the site."</p>		
Signatory	Company Information	Responsible For
<p>_____</p> <p>(Name)</p> <p>_____</p> <p>(Position)</p> <p>_____</p> <p>(Signature)</p> <p>_____</p> <p>(Date)</p>	<p>_____</p> <p>(Company)</p> <p>_____</p> <p>(Street/P.O. Box)</p> <p>_____</p> <p>(City, State, Zip)</p> <p>_____</p> <p>(Phone)</p>	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>(Activity)</p>
<p>_____</p> <p>(Name)</p> <p>_____</p> <p>(Position)</p> <p>_____</p> <p>(Signature)</p> <p>_____</p> <p>(Date)</p>	<p>_____</p> <p>(Company)</p> <p>_____</p> <p>(Street/P.O. Box)</p> <p>_____</p> <p>(City, State, Zip)</p> <p>_____</p> <p>(Phone)</p>	<p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>(Activity)</p>



Contractor Certification Statement (continued from previous page if additional signatures are required)

<p>"I certify under penalty of the law that I have read and understand the terms and conditions of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with construction activities. I understand that as a contractor or subcontractor at the site, I am authorized by this General Permit, and must comply with the terms and conditions of this permit, including but not limited to the requirements of the Stormwater Pollution Control Plan prepared for the site."</p>		
Signatory	Company Information	Responsible For
<hr/> (Name)	<hr/> (Company)	<hr/>
<hr/> (Position)	<hr/> (Street/P.O. Box)	<hr/>
<hr/> (Signature)	<hr/> (City, State, Zip)	<hr/>
<hr/> (Date)	<hr/> (Phone)	<hr/> (Activity)
<hr/> (Name)	<hr/> (Company)	<hr/>
<hr/> (Position)	<hr/> (Street/P.O. Box)	<hr/>
<hr/> (Signature)	<hr/> (City, State, Zip)	<hr/>
<hr/> (Date)	<hr/> (Phone)	<hr/> (Activity)
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<hr/> (Signature)	<hr/> (City, State, Zip)	<hr/>
<hr/> (Date)	<hr/> (Phone)	<hr/> (Activity)



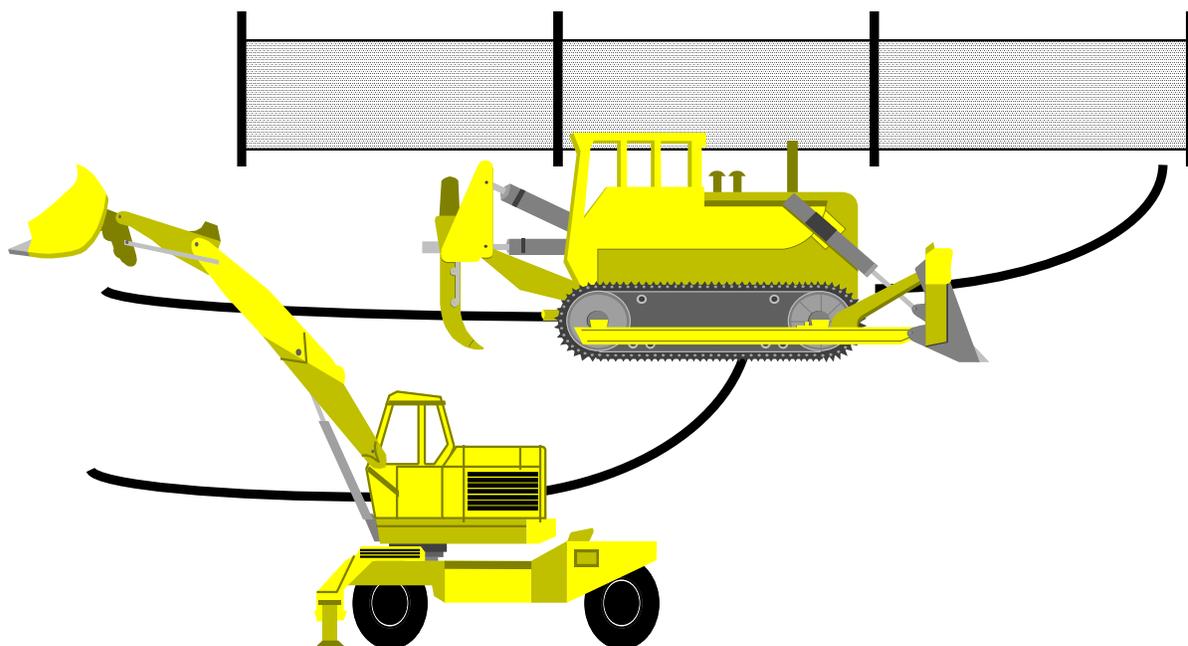
APPENDICES



Appendix A:

**General Permit for Discharge of Stormwater and
Dewatering Wastewaters from Construction Activities**

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities



Issuance Date: August 21, 2013
Effective Date: October 1, 2013

Printed on recycled paper

General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

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General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

Section 1. Authority

This general permit is issued under the authority of section 22a-430b of the Connecticut General Statutes.

Section 2. Definitions

The definitions of terms used in this general permit shall be the same as the definitions contained in section 22a-423 of the Connecticut General Statutes and section 22a-430-3(a) of the Regulations of Connecticut State Agencies. As used in this general permit, the following definitions shall apply:

“*x-year, 24-hour rainfall event*” means the maximum 24-hour precipitation event with a probable recurrence interval of once in the given number of years (i.e. $x=2, 25$ or 100), as defined by the National Weather Service in Technical Paper Number 40, “Rainfall Frequency Atlas of the United States,” May 1961, and subsequent amendments, or equivalent regional or state rainfall probability information developed therefrom.

“*Annual sediment load*” means the total amount of sediment carried by stormwater runoff on an annualized basis.

“*Aquifer protection area*” means aquifer protection area as defined in section 22a-354h of the Connecticut General Statutes.

“*Best engineering practices*” means the design of engineered control measures to control pollution to the maximum extent achievable using measures that are technologically available and economically practicable.

“*CFR*” means the Code of Federal Regulations.

“*Coastal area*” means coastal area as defined in section 22a-93(3) of the Connecticut General Statutes.

“*Coastal waters*” means coastal waters as defined in section 22a-93(5) of the Connecticut General Statutes.

“*Commissioner*” means commissioner as defined in section 22a-2(b) of the Connecticut General Statutes.

“*Construction activity*” means any activity associated with construction at a site including, but not limited to, clearing and grubbing, grading, excavation, and dewatering.

“*Department*” means the Department of Energy & Environmental Protection.

“*Developer*” means a person who or municipality which is responsible, either solely or partially through contract, for the design and construction of a project site.

“*Dewatering wastewater*” means wastewater associated with the construction activity generated from the lowering of the groundwater table, the pumping of accumulated stormwater or uncontaminated groundwater from an excavation, the pumping of surface water from a cofferdam, or pumping of other surface water that has been diverted into a construction site.

“*District*” means a soil and water conservation district established pursuant to section 22a-315 of the Connecticut General Statutes. Appendix E lists the Districts, their geographic delineations, and contact information.

“*Disturbance*” means the execution of any of the construction activity(ies) defined in this general permit.

“*Effective Impervious Cover*” is the total area of a site with a Rational Method runoff coefficient of 0.7 or greater (or other equivalent methodology) from which stormwater discharges directly to a surface water or to a storm sewer system.

“*Engineered stormwater management system*” means any control measure and related appurtenances which requires engineering analysis and/or design by a professional engineer.

“*Erosion*” means the detachment and movement of soil or rock fragments by water, wind, ice and gravity.

“*Fresh-tidal wetland*” means a tidal wetland with an average salinity level of less than 0.5 parts per thousand.

“*Grab sample*” means an individual sample collected in less than fifteen minutes.

“*Groundwater*” means those waters of the state that naturally exist or flow below the surface of the ground.

“*Guidelines*” means the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, established pursuant to section 22a-328 of the Connecticut General Statutes.

“*High Quality Waters*” means those waters defined as high quality waters in the Connecticut Water Quality Standards published by the Department, as may be amended.

“*Impaired water(s)*” means those surface waters of the state designated by the commissioner as impaired pursuant to Section 303(d) of the Clean Water Act and as identified in the most recent State of Connecticut Integrated Water Quality Report.

“*In Responsible charge*” means professional experience for which the Commissioner determines that a professional’s primary duties consistently involve a high level of responsibility and decision making in the planning and designing of engineered stormwater management systems or in the planning and designing of soil erosion and sediment controls for residential and commercial construction projects. The Commissioner shall consider the following in determining whether a professional’s experience qualifies as responsible charge experience:

- (i) the level of independent decision-making exercised;
- (ii) the number of individuals and the disciplines of the other professionals that the professional supervised or coordinated;
- (iii) the extent to which a professional’s responsibilities consistently involved the review of work performed by other professionals involved the planning and designing of engineered stormwater management systems or the planning and designing of soil erosion and sediment controls for residential and commercial construction projects;
- (iv) the extent to which a professional’s responsibilities consistently involved the planning and designing of engineered stormwater management systems or the planning and designing of soil erosion and sediment controls for residential and commercial construction projects and whether such responsibilities were an integral and substantial component of the professional’s position;
- (v) the nature of a professional’s employer’s primary business interests and the relation of those interests to planning and designing of engineered stormwater management systems or to planning and designing of soil erosion and sediment controls for residential and commercial construction projects;

- (vi) the extent to which a professional has engaged in the evaluation and selection of scientific or technical methodologies for planning and designing of engineered stormwater management systems or for planning and designing of soil erosion and sediment controls for residential and commercial construction projects;
- (vii) the extent to which a professional drew technical conclusions, made recommendations, and issued opinions based on the results of planning and designing of engineered stormwater management systems or of planning and designing of soil erosion and sediment controls for residential and commercial construction projects; or
- (viii) any other factor that the Commissioner deems relevant.

“*Individual permit*” means a permit issued to a specific permittee under section 22a-430 of the Connecticut General Statutes.

“*Inland wetland*” means wetlands as defined in section 22a-38 of the Connecticut General Statutes.

“*Landscape Architect*” means a person with a currently effective license issued in accordance with chapter 396 of the Connecticut General Statutes.

“*Linear Project*” includes the construction of roads, railways, bridges, bikeways, conduits, substructures, pipelines, sewer lines, towers, poles, cables, wires, connectors, switching, regulating and transforming equipment and associated ancillary facilities in a long, narrow area.

“*Locally approvable project*” means a construction activity for which the registration is not for a municipal, state or federal project and is required to obtain municipal approval for the project.

“*Locally exempt project*” means a construction activity for which the registration is for a project authorized under municipal, state or federal authority and may not be required to obtain municipal approval for the project.

“*Low Impact Development*” or “*LID*” means a site design strategy that maintains, mimics or replicates pre-development hydrology through the use of numerous site design principles and small-scale treatment practices distributed throughout a site to manage runoff volume and water quality at the source.

“*Minimize*”, for purposes of implementing the control measures in Section 5(b)(2) of this general permit, means to reduce and/or eliminate to the extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice.

“*Municipal separate storm sewer system*” or “*MS4*” means conveyances for stormwater (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels or storm drains) owned or operated by any municipality and discharging to surface waters of the state.

“*Municipality*” means a city, town or borough of the state as defined in section 22a-423 of the Connecticut General Statutes.

“*Nephelometric Turbidity Unit*” or “*NTU*” means a unit measure of turbidity from a calibrated nephelometer.

“*Normal Working Hours*”, for the purposes of monitoring under Section 5(c) of this general permit, are considered to be, at a minimum, Monday through Friday, between the hours of 8:00 am and 6:00 pm, unless additional working hours are specified by the permittee.

“*Permittee*” means any person who or municipality which initiates, creates or maintains a discharge in accordance with Section 3 of this general permit.

“*Person*” means person as defined in section 22a-423 of the Connecticut General Statutes.

“*Phase*” means a portion of a project possessing a distinct and complete set of activities that have a specific functional goal wherein the work to be completed in the phase is not dependent upon the execution of work in a later phase in order to make it functional.

“*Point Source*” means any discernible, confined and discrete stormwater conveyance (including but not limited to, any pipe, ditch, channel, tunnel, conduit, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft) from which pollutants are or may be discharged.

“*Professional Engineer*” or “*P.E.*” means a person with a currently effective license issued in accordance with chapter 391 of the Connecticut General Statutes.

“*Qualified Inspector*” means an individual possessing either (1) a professional license or certification by a professional organization recognized by the commissioner related to agronomy, civil engineering, landscape architecture, soil science, and two years of demonstrable and focused experience in erosion and sediment control plan reading, installation, inspection and/or report writing for residential and commercial construction projects in accordance with the Guidelines; or (2) five years of demonstrable and focused experience in erosion and sediment control plan reading, installation, inspection and/or report writing for residential and commercial construction projects in accordance with the Guidelines; or (3) certification by the Connecticut Department of Transportation (DOT).

“*Qualified professional engineer*” means a professional engineer who has, for a minimum of eight years, engaged in the planning and designing of engineered stormwater management systems for residential and commercial construction projects in accordance with the Guidelines and the Stormwater Quality Manual including, but not limited to, a minimum of four years in responsible charge of the planning and designing of engineered stormwater management systems for such projects.

“*Qualified soil erosion and sediment control professional*” means a landscape architect or a professional engineer who: (1) has for a minimum of eight years engaged in the planning and designing of soil erosion and sediment controls for residential and commercial construction projects in accordance with the Guidelines including, but not limited to, a minimum of four years in responsible charge of the planning and designing of soil erosion and sediment controls for such projects; or (2) is currently certified as a professional in erosion and sediment control as designated by EnviroCert International, Incorporated (or other certifying organization acceptable to the commissioner) and has for a minimum of six years experience engaged in the planning and designing of soil erosion and sediment controls for residential and commercial construction projects in accordance with the Guidelines including, but not limited to, a minimum of four years in responsible charge in the planning and designing of soil erosion and sediment controls for such projects.

“*Registrant*” means a person or municipality that files a registration.

“*Registration*” means a registration form filed with the commissioner pursuant to Section 4 of this general permit.

“*Regulated Municipal Separate Storm Sewer System*” or “*Regulated MS4*” means the separate storm sewer system of the City of Stamford or any municipally-owned or -operated separate storm sewer system (as defined above) authorized by the most recently issued General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4 general permit) including all those located partially

or entirely within an Urbanized Area and those additional municipally-owned or municipally-operated Small MS4s located outside an Urbanized Area as may be designated by the commissioner.

“*Retain*” means to hold runoff on-site to promote vegetative uptake and groundwater recharge through the use of runoff reduction or LID practices or other measures. In addition, it means there shall be no subsequent point source release to surface waters from a storm event defined in this general permit or as approved by the commissioner.

“*Runoff reduction practices*” means those post-construction stormwater management practices used to reduce post-development runoff volume delivered to the receiving water, as defined by retaining the volume of runoff from a storm up to the first half inch or one inch of rainfall in accordance with Sections 5(b)(2)(C)(i)(a) or (b), respectively. Runoff reduction is quantified as the total annual post-development runoff volume reduced through canopy interception, soil amendments, evaporation, rainfall harvesting, engineered infiltration, extended filtration or evapo-transpiration.

“*Sediment*” means solid material, either mineral or organic, that is in suspension, is transported, or has been moved from its site of origin by erosion.

“*Site*” means geographically contiguous land on which a construction activity takes place or on which a construction activity for which authorization is sought under this general permit is proposed to take place. Non-contiguous land or water owned by the same person shall be deemed the same site if such land is part of a linear project (as defined in this section) or is otherwise connected by a right-of-way, which such person controls.

“*Soil*” means any unconsolidated mineral and organic material of any origin.

“*Stabilize*” means the use of measures as outlined in the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, or as approved by the commissioner, to prevent the visible movement of soil particles and development of rills.

“*Structural measure*” means a measure constructed for the temporary storage and/or treatment of stormwater runoff.

“*Standard Industrial Classification Code*” or “*SIC Code*” means those codes provided in the Standard Industrial Classification Manual, Executive Office of the President, Office of Management and Budget 1987.

“*Standard of care*”, as used in Section 3(b), means to endeavor to perform in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing under similar circumstances.

“*Stormwater*” means waters consisting of rainfall runoff, including snow or ice melt during a rain event.

“*Stormwater Quality Manual*” means the 2004 Connecticut Stormwater Quality Manual published by the Connecticut Department of Energy & Environmental Protection, as amended.

“*Surface water*” means that portion of waters, as the term “waters” is defined in section 22a-423 of the Connecticut General Statutes, located above the ground surface.

“*Tidal wetland*” means a wetland as that term is defined in section 22a-29(2) of the Connecticut General Statutes.

“*Total disturbance*” means the total area on a site where soil will be exposed or susceptible to erosion during the course of all phases of a project.

“*Total Maximum Daily Load*” or “*TMDL*” means the maximum capacity of a surface water to assimilate a pollutant as established by the commissioner, including pollutants contributed by point and non-point sources and a margin of safety.

“*Upland soils*” means soils which are not designated as poorly drained, very poorly drained, alluvial, or flood plain by the National Cooperative Soils Survey, as may be amended, of the Natural Resources Conservation Service of the United States Department of Agriculture and/or the inland wetlands agency of the municipality in which the project will take place.

“*Water company*” means water company as defined in section 25-32a of the Connecticut General Statutes.

“*Water Quality Standards or Classifications*” means those water quality standards or classifications contained in the Connecticut Water Quality Standards published by the Department, as may be amended.

“*Water Quality Volume*” or “*WQV*” means the volume of runoff generated by one inch of rainfall on a site as defined in the 2004 Connecticut Stormwater Quality Manual, as amended.

Section 3. Authorization Under This General Permit

(a) *Eligible Activities*

This general permit authorizes the discharge of stormwater and dewatering wastewaters to surface waters from construction activities on a site, as defined in this general permit, with a total disturbance of one or more acres of land area on a site, *regardless of project phasing*.

In the case of a larger plan of development (such as a subdivision), the estimate of total acres of site disturbance shall include, but is not limited to, road and utility construction, individual lot construction (e.g. house, driveway, septic system, etc.), and all other construction associated with the overall plan, regardless of the individual parties responsible for construction of these various elements.

(b) *Requirements for Authorization*

This general permit authorizes the construction activity listed in the “Eligible Activities” section (Section 3(a)) of this general permit provided:

(1) Coastal Management Act

Such construction activity must be consistent with all applicable goals and policies in section 22a-92 of the Connecticut General Statutes, and must not cause adverse impacts to coastal resources as defined in section 22a-93(15) of the Connecticut General Statutes. Please refer to the Appendix D for additional guidance.

(2) Endangered and Threatened Species

Such activity must not threaten the continued existence of any species listed pursuant to section 26-306 of the Connecticut General Statutes as endangered or threatened and must not result in the destruction or adverse modification of habitat designated as essential to such species. See Appendix A.

(3) Aquifer Protection Areas

Such construction activity, if it is located within an aquifer protection area as mapped under section 22a-354b of the General Statutes, must comply with regulations adopted pursuant to section 22a-354i of the General Statutes. Please refer to the Appendix C for additional guidance.

For any construction activity regulated pursuant to sections 8(c) and 9(b) of the Aquifer Protection Regulations (section 22a-354i(1)-(10) of the Regulations of Connecticut State Agencies), the Stormwater Pollution Control Plan (Plan) must assure that stormwater run-off generated from the regulated construction activity (i) is managed in a manner so as to prevent pollution of groundwater, and (ii) complies with all the requirements of this general permit.

(4) Mining Operations Exception

The stormwater discharge resulting from an activity classified as Standard Industrial Classification 10 through 14 (the mining industry) is not authorized by this general permit and is regulated under the most recently issued General Permit for the Discharge of Stormwater Associated with Industrial Activity.

(5) Discharge to POTW

The stormwater is *not* discharged to a Publicly Owned Treatment Works (POTW).

(6) Discharge to Groundwater

The stormwater is *not* discharged entirely to groundwater, meaning a stormwater discharge to a surface water will not occur up to a 100-year, 24-hour rainfall event.

(7) Such construction activity must be consistent with the Wild and Scenic Rivers Act (16 U.S.C. 1271-1287) for those river components and tributaries which have been designated as Wild and Scenic by the United States Congress. Further, such construction activities must not have a direct and adverse effect on the values for which such river designation was established. Please refer to Appendix H for additional guidance.

(8) Certification Requirements for Registrants and other Individuals

As part of the registration for this general permit, the registrant and any other individual or individuals responsible for preparing the registration submits to the commissioner a written certification which, at a minimum, complies with the following requirements:

(A) The registrant and any other individual or individuals responsible for preparing the registration and signing the certification has completely and thoroughly reviewed, at a minimum, this general permit and the following regarding the activities to be authorized under such general permit:

- (i) all registration information provided in accordance with Section 4(c)(2) of such general permit;
- (ii) the project site, based on a site inspection;
- (iii) the Stormwater Pollution Control Plan; and
- (iv) any plans and specifications and any Department approvals regarding such Stormwater Pollution Control Plan;

- (B) The registrant and any other individual or individuals responsible for preparing the registration and signing the certification pursuant to this general permit has, based on the review described in section 3(b)(8)(A) of this general permit, made an affirmative determination to:
- (i) comply with the terms and conditions of this general permit;
 - (ii) maintain compliance with all plans and documents prepared pursuant to this general permit including, but not limited to, the Stormwater Pollution Control Plan;
 - (iii) properly implement and maintain the elements of the Stormwater Pollution Control Plan; and
 - (iv) properly operate and maintain all stormwater management systems in compliance with the terms and conditions of this general permit to protect the waters of the state from pollution;
- (C) Such registrant and any other individual or individuals responsible for preparing the registration certifies to the following statement: "I hereby certify that I am making this certification in connection with a registration under such general permit, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY] and that all terms and conditions of the general permit are being met for all discharges which have been initiated and such activity is eligible for authorization under such permit. I further certify that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit at the site. I certify that the registration filed pursuant to this general permit is on complete and accurate forms as prescribed by the commissioner without alteration of their text. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(b)(8)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I certify that I have made an affirmative determination in accordance with Section 3(b)(8)(B) of this general permit. I understand that the registration filed in connection with such general permit is submitted in accordance with and shall comply with the requirements of Section 22a-430b of Connecticut General Statutes. I also understand that knowingly making any false statement made in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."
- (9) The registrant has submitted to the commissioner a written certification by a professional engineer or, where appropriate, a landscape architect licensed in the State of Connecticut for the preparation, planning and design of the Stormwater Pollution Control Plan and stormwater management systems:
- (A) The professional engineer or landscape architect shall certify to the following statement:
- "I hereby certify that I am a [professional engineer][landscape architect] licensed in the State of Connecticut. I am making this certification in connection with a registration under such general permit, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I certify that I have thoroughly and completely reviewed the Stormwater

Pollution Control Plan for the project or activity covered by this certification. I further certify, based on such review and on the standard of care for such projects, that the Stormwater Pollution Control Plan has been prepared in accordance with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, the Stormwater Quality Manual, as amended, and the conditions of the general permit, and that the controls required for such Plan are appropriate for the site. I further certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I also understand that knowingly making any false statement in this certification may subject me to sanction by the Department and/or be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

- (B) Nothing in this section shall be construed to authorize a professional engineer or a landscape architect to engage in any profession or occupation requiring a license under any other provision of the general statutes without such license.

(10) Plan Review and Certification by a District for Locally Approvable Projects

For those Plans not reviewed in accordance with Section 3(b)(11), below, the registrant has submitted to the commissioner a written certification by the appropriate regional District for the review of the Stormwater Pollution Control Plan pursuant to Appendix F, which, at a minimum, complies with the following requirements:

- (A) the Plan Review Certification must be signed by the District. Information on the District review process is outlined in the Memorandum of Agreement provided in Appendix F. In cases where the District is unable to complete review of the Plan within the time limits specified in the Memorandum of Agreement in Appendix F, a notice to that effect signed by the District may be submitted in lieu of the certification.
- (B) the Stormwater Pollution Control Plan has been prepared in accordance with the requirements of Section 5(b) of the general permit.
- (C) Nothing in this subsection shall be construed to authorize District personnel to engage in any profession or occupation requiring a license under any other provision of the general statutes without such license.

(11) Plan Review and Certification by a Qualified Soil Erosion and Sediment Control Professional and Qualified Professional Engineer for Locally Approvable Projects

For those Plans not reviewed in accordance with Section 3(b)(10), above, the registrant has submitted to the commissioner a written certification by a qualified professional engineer or a qualified soil erosion and sediment control professional in accordance with the following requirements:

- (A) for projects disturbing more than one acre and less than fifteen (15) acres, such qualified soil erosion and sediment control professional or qualified professional engineer:
 - (i) is not an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the registrant; and
 - (ii) has no ownership interest of any kind in the project for which the registration is being submitted.

- (B) for projects disturbing fifteen (15) acres or more, such qualified soil erosion and sediment control professional or qualified professional engineer:
 - (i) is not an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the registrant;
 - (ii) did not engage in any activities associated with the preparation, planning, designing or engineering of such plan for soil erosion and sediment control or plan for stormwater management systems on behalf of such registrant;
 - (iii) is not under the same employ as any person who engaged in any activities associated with the preparation, planning, designing or engineering of such plans and specifications for soil erosion and sediment control or plans and specifications for stormwater management systems on behalf of such registrant; and
 - (iv) has no ownership interest of any kind in the project for which the registration is being submitted.

- (C) The qualified professional engineer or qualified soil erosion and sediment control professional signing the certification has, at a minimum, completely and thoroughly reviewed this general permit and the following regarding the discharges to be authorized under such general permit:
 - (i) all registration information provided in accordance with Section 4(c)(2) of such general permit;
 - (ii) the site, based on a site inspection;
 - (iii) the Stormwater Pollution Control Plan;
 - (iv) the Guidelines;
 - (v) the Stormwater Quality Manual, if applicable; and
 - (vi) all non-engineered and engineered stormwater management systems, including any plans and specifications and any Department approvals regarding such stormwater management systems.

- (D) Affirmative Determination
 - (i) The qualified soil erosion and sediment control professional signing the certification must have made an affirmative determination, based on the review described in section 3(b)(11)(C) of this general permit that:
 - (a) the Stormwater Pollution Control Plan prepared and certified pursuant to the registration is adequate to assure that the project or activity authorized under this general permit, if implemented in accordance with the Stormwater Pollution Control Plan, will comply with the terms and conditions of such general permit; and
 - (b) all non-engineered stormwater management systems:
 - (1) have been designed to control pollution to the maximum extent achievable using measures that are technologically available and economically

practicable and that conform to those in the Guidelines and the Stormwater Quality Manual;

- (2) will function properly as designed;
- (3) are adequate to ensure compliance with the terms and conditions of this general permit; and
- (4) will protect the waters of the state from pollution.

(ii) The qualified professional engineer signing the certification must have made an affirmative determination, based on the review described in section 3(b)(11)(C) of this general permit that:

- (a) the Stormwater Pollution Control Plan prepared and certified pursuant to the registration is adequate to assure that the activity authorized under this general permit, if implemented in accordance with the Stormwater Pollution Control Plan, will comply with the terms and conditions of such general permit; and
- (b) all non-engineered and engineered stormwater management systems:
 - (1) have been designed to control pollution to the maximum extent achievable using measures that are technologically available and economically practicable and that conform to those in the Guidelines and the Stormwater Quality Manual;
 - (2) will function properly as designed;
 - (3) are adequate to ensure compliance with the terms and conditions of this general permit; and
 - (4) will protect the waters of the state from pollution.

(E) The qualified professional engineer or qualified soil erosion and sediment control professional shall, provided it is true and accurate, certify to the following statement:

"I hereby certify that I am a qualified professional engineer or qualified soil erosion and sediment control professional, or both, as defined in the General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities and as further specified in sections 3(b)(11)(A) and (B) of such general permit. I am making this certification in connection with a registration under such general permit, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(b)(11)(C) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I further certify that I have made the affirmative determination in accordance with Sections 3(b)(11)(D)(i) and (ii) of this general permit. I understand that this certification is part of a registration submitted in accordance with Section 22a-430b of Connecticut General Statutes and is subject to the requirements and responsibilities for a qualified professional in such statute. I also understand that knowingly making any false statement in this certification may be

punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

- (F) Nothing in this subsection shall be construed to authorize a qualified soil erosion and sediment control professional or a qualified professional engineer to engage in any profession or occupation requiring a license under any other provision of the general statutes without such license.

(12) New Discharges to Impaired Waters

New stormwater discharges directly to an impaired water, as indicated in the State's Integrated Water Quality Report, must be in accordance with the following conditions:

- (A) Stormwater discharges that go directly to impaired waters seeking authorization under this general permit shall comply with the requirements of this subsection (B) below if the indicated cause or potential cause of the impairment is one of the following:
- Site Clearance (Land Development or Redevelopment)
 - Post-Development Erosion and Sedimentation
 - Source Unknown (if cause of impairment is Sedimentation/Siltation)
- (B) Such stormwater discharge is authorized if the permittee complies with the requirements of Section 5(b)(3) of this permit and receives a written affirmative determination from the commissioner that the discharge meets the requirements of that section. In such case, the permittee must keep a copy of the written determination onsite with the Plan. If the permittee does not receive such affirmative determination, the construction activity is not authorized by this general permit and must obtain an individual permit.

(c) **Registration**

Pursuant to the "Registration Requirements" section (Section 4) of this general permit, a completed registration with respect to the construction activity shall be filed with the commissioner as follows:

(1) Locally Approvable Projects

The registration must:

- (A) Be electronically submitted, along with all required elements in subsections (B), (C) and (D), below, at least sixty (60) days prior to the planned commencement of the construction activity.
- (B) Include the Registration Form (available at www.ct.gov/deep/stormwater).
- (C) Include any additional forms and information regarding compliance and/or consistency with the Coastal Management Act, Impaired Waters (including TMDL requirements), Endangered and Threatened Species, and Aquifer Protection Areas that may be required pursuant to the "Requirements of Authorization" section (Section 3(b)).
- (D) Include a Plan Review Certification in accordance with the "Plan Review Certification" (Section 5(b)(8)).

Locally Approvable projects may also choose to make their Plan electronically available in accordance with Section 4(c)(2)(N) of this general permit. The 60 day period cited in subsection

(A), above, will not begin until all required elements have been submitted. Failure to include any of these required submissions shall be grounds to reject the registration.

(2) Locally Exempt Projects

The registration must:

- (A) Be electronically submitted, along with all required elements in subsections (B), (C) and (D), below, at least:
 - (i) sixty (60) days prior to the planned commencement of the construction activity if the site has a total disturbed area of between one (1) and twenty (20) acres; *or*
 - (ii) ninety (90) days prior to the planned commencement of construction activity if the site:
 - (a) has a total disturbed area greater than twenty (20) acres;
 - (b) discharges to a tidal wetland (that is not a fresh-tidal wetland) within 500 feet of the discharge point; *or*
 - (c) is subject to the impaired waters provisions of Section 3(b)(12).
- (B) Include the Registration Form (available at www.ct.gov/deep/stormwater).
- (C) Include any additional forms and information regarding compliance and/or consistency with the Coastal Management Act, Impaired Waters (including TMDL requirements), Endangered and Threatened Species, and Aquifer Protection that may be required pursuant to the “Requirements of Authorization” section (Section 3(b)).
- (D) Include an electronic copy of the Stormwater Pollution Control Plan (Plan) (or a web address where the electronic Plan can be downloaded) for the commissioner’s review. The electronic Plan shall be in Adobe™ PDF format or similar publicly available format in common use. **DO NOT INCLUDE** in this electronic copy any pages or other material that do not pertain to stormwater management or erosion and sedimentation control (such as electrical and lighting plans, boundary or lot surveys, building plans, non-stormwater related detail sheets, etc.).

The 60 or 90 day periods cited in subsections (A), above, will not begin until all required elements have been submitted. Failure to include any of these required submissions shall be grounds to reject the registration.

(3) Re-Registration of Existing Projects

For sites previously registered under any previous version of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities and for which no Notice of Termination has been submitted pursuant to the “Termination Requirements” section (Section 6), a Re-Registration Form (available at www.ct.gov/deep/stormwater) pursuant to Section 4(c)(3) shall be submitted on or before February 1, 2014. The re-registration fee is payable (or waived) in accordance with Section 4(c)(1)(A)(iii). Resubmission of the permittee’s Plan is not required unless specifically requested by the commissioner.

(d) *Small Construction*

For construction projects with a total disturbance of between one and five acres, the permittee shall adhere to the erosion and sediment control land use regulations of the municipality in which the construction activity is conducted, as well as the Guidelines and the Stormwater Quality Manual.

No registration or Plan review and certification shall be required for such construction activity provided a land-use commission of the municipality (i.e. planning/zoning, wetland, conservation, etc) reviews and issues a written approval of the proposed erosion and sediment control measures, pursuant to the requirements of section 22a-329 of the Connecticut General Statutes. In the absence of such municipal commission approval, the permittee shall register with the DEEP under the requirements for a Locally Exempt Project and comply with all applicable conditions of this general permit.

(e) *Geographic Area*

This general permit applies throughout the State of Connecticut.

(f) *Effective Date and Expiration Date of this General Permit*

The registration provisions of Section 3(c) and 4 of this General Permit, including any applicable definitions or provisions referred to in those sections insofar as they facilitate submission of a registration, shall be effective September 1, 2013. All remaining provisions of this General Permit shall be effective on October 1, 2013. The provisions of this General Permit shall expire on September 30, 2018.

(g) *Effective Date of Authorization*

A construction activity is authorized by this general permit at such time as specified in subsections (1) and (2), below.

(1) Authorization Timelines

The activity is authorized based on the following timelines unless superseded by subsection (2), below:

- (A) for locally approvable projects, sixty (60) days after the submission of the registration form required by Section 4(c), or
- (B) for locally exempt projects under 20 acres, sixty (60) days after the submission of the registration form required by Section 4(c), or
- (C) for locally exempt projects over 20 acres, ninety (90) days after the submission of the registration form required by Section 4(c).

(2) Alternate Authorization Timelines

If one of the following conditions for authorization applies, that condition shall supersede those of subsection (1), above:

- (A) for sites for which the registration and Plan availability and review provisions of Section 4(e) are completed prior to the authorization periods in subsection (1), above, the commissioner may authorize the activity upon such completion, or

- (B) for sites subject to the conditions of Section 3(b)(2), 3(b)(12) and/or Section 5(a)(2), the activity is authorized on the date of the commissioner's affirmative determination and/or approval, or
- (C) for sites authorized by any previous version of this general permit and for which no Notice of Termination has been submitted pursuant to the "Termination Requirements" section (Section 6), the activity is authorized effective October 1, 2013. Authorization under this general permit shall cease if a re-registration form is not submitted on or before February 1, 2014.

(h) *Revocation of an Individual Permit*

If a construction activity is eligible for authorization under this general permit and such activity is presently authorized by an individual permit, the existing individual permit may be revoked by the commissioner upon a written request by the permittee. If the commissioner revokes such individual permit in writing, such revocation shall take effect on the effective date of authorization of such activity under this general permit.

(i) *Issuance of an Individual Permit*

If the commissioner issues an individual permit under section 22a-430 of the Connecticut General Statutes, authorizing a construction activity authorized by this general permit, this general permit shall cease to authorize that activity beginning on the date such individual permit is issued.

Section 4. Registration Requirements

(a) *Who Must File a Registration*

With the exception noted in the "Small Construction" section (Section 3(d)) of this general permit, any person or municipality which initiates, creates, originates or maintains a discharge described in the "Eligible Activities" section (Section 3(a)) of this general permit shall file with the commissioner a registration form that meets the requirements of the "Contents of Registration" section (Section 4(c)) of this general permit (or a re-registration form) and the applicable fee within the timeframes and in the amounts specified in Sections 3(c) and 4(c)(1)(A), respectively. Any such person or municipality filing a registration remains responsible for maintaining compliance with this general permit.

(b) *Scope of Registration*

Each registration shall be limited to the discharge at or from one site; no registration shall cover discharges at or from more than one site.

(c) *Contents of Registration*

(1) Fees

(A) Registration Fee

A registration, if required, shall not be deemed complete unless the registration fee has been paid in full.

(i) Locally Approvable Projects

A registration fee of \$625.00 shall be submitted to the Department with the registration form.

(ii) Locally Exempt Projects

A registration fee shall be submitted with a registration form as follows:

- (a) For sites with total disturbance of between one (1) and twenty (20) acres, the fee shall be \$3,000.
- (b) For sites with total disturbance equal to or greater than twenty (20) acres and less than fifty (50) acres, the fee shall be \$4,000.
- (c) For sites with total disturbance equal to or greater than fifty (50) acres, the fee shall be \$5,000.

The fees for municipalities shall be half of those indicated in subsections (a), (b) and (c) above pursuant to section 22a-6(b) of the Connecticut General Statutes. State and Federal agencies shall pay the full fees specified in this subsection.

(iii) Re-registration

- (a) For sites that registered under the previous version of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities prior to September 1, 2012 and for which no Notice of Termination has been submitted pursuant to the "Termination Requirements" section (Section 6), the re-registration fee shall be \$625 payable with submission of the re-registration form within one hundred twenty (120) days from the effective date of this general permit. If a Notice of Termination is submitted prior to that time, no registration or fee are required.
- (b) For sites that registered under the previous version of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities on or after September 1, 2012 and for which no Notice of Termination has been submitted pursuant to the "Termination Requirements" section (Section 6), the re-registration fee is waived.

(B) The registration fee shall be paid electronically or by check or money order payable to the Department of Energy & Environmental Protection.

(C) The registration fee is non-refundable.

(2) Registration Form

A registration shall be filed electronically on forms prescribed and provided by the commissioner (available at: www.ct.gov/deep/stormwater) and shall include, but not be limited to, the following:

- (A) Legal name, address, and telephone number of the registrant. If the registrant is a person (as defined in Section 2 of this permit) transacting business in Connecticut and is registered with the Connecticut Secretary of the State, provide the exact name as registered with the Connecticut Secretary of the State.
- (B) Legal name, address and telephone number of the owner of the property on which the construction activity will take place.

- (C) Legal name, address and telephone number of the primary contact for departmental correspondence and inquiries, if different from the registrant.
- (D) Legal name, address and telephone number of the developer of the property on which the construction activity is to take place.
- (E) Legal name, address and daytime and off-hours telephone numbers of the general contractor(s) or other representative(s), if different from the developer.
- (F) Legal name, address and telephone number of any consultant(s), engineer(s) or landscape architect(s) retained by the permittee to prepare the registration and Stormwater Pollution Control Plan.
- (G) Location address or description of the site for which the registration is filed.
- (H) The estimated duration of the construction activity.
- (I) Indication of the normal working hours of the site.
- (J) A brief description of the construction activity, including, but not limited to:
 - (i) Total number of acres to be disturbed, regardless of phasing.
 - (ii) Assurance that construction is in accordance with the Guidelines and local erosion and sediment control ordinances, where applicable.
 - (iii) For sites in the Coastal Boundary, documentation that the DEEP Office of Long Island Sound Programs or local governing authority has issued a coastal site plan approval or a determination that the project is exempt from coastal site plan review (see Appendix D) in accordance with section 22a-92 and 22a-93(15) of the Connecticut General Statutes.
 - (iv) Documentation that the construction activity will not threaten the continued existence of any species listed pursuant to section 26-306 of the Connecticut General Statutes as endangered or threatened and will not result in the destruction or adverse modification of habitat designated as essential to such species (see Appendix A).
 - (v) For sites discharging to certain impaired waters, as specified in Section 3(b)(12), documentation that the construction activity meets the requirements of that section and Section 5(b)(3) for authorization under this general permit.
 - (vi) Assurance that the construction activity is not located within an aquifer protection area (see Appendix C) as mapped under section 22a-354b of the Connecticut General Statutes or, if it is located within an aquifer protection area, that the construction activity will comply with regulations adopted pursuant to section 22a-354i of the Connecticut General Statutes.
 - (vii) For a proposed locally approvable project, a plan review certification from the appropriate District, qualified soil erosion and sediment control professional, and/or qualified professional engineer in accordance with Section 5(b)(10) or (11) or a notice from the District that they were unable to complete the Plan review within the time limits specified in the Memorandum of Agreement in Appendix F.

- (K) A brief description of the stormwater discharge, including:
- (i) The name of the municipal separate storm sewer system or immediate surface water body or wetland to which the stormwater runoff will discharge;
 - (ii) Verification of whether or not the site discharges to a tidal wetland (that is not a fresh-tidal wetland) within 500 feet of the discharge point, to a high quality water or to an impaired water with or without a TMDL;
 - (iii) The name of the watershed or nearest waterbody to which the site discharges.
 - (iv) Location of the stormwater discharge(s) including latitude and longitude.
- (L) The total effective impervious cover for the site before and after the proposed construction activity.
- (M) Documentation that the proposed construction activity has been reviewed for consistency with state Historic Preservation statutes, regulations, and policies including identification of any potential impacts on property listed or eligible for listing on the Connecticut Register of Historic Places. A review conducted for an Army Corps of Engineers Section 404 wetland permit would meet this qualification. Refer to Appendix G for guidance on conducting the required review.
- (N) Registrants for locally approvable projects may, if they choose, attach an electronic copy of their Plan to their registration or provide a web address where their Plan may be downloaded. If an electronic plan is not provided, the registrant is still subject to the requirements for submission of a Plan to the commissioner or a member of the public pursuant to the "Plan Availability" section (Section 4(e)(2)). An electronic Plan shall be in Adobe™ PDF format or similar publicly available format in common use. **DO NOT INCLUDE** in the Plan any pages or other material that do not pertain to stormwater management or erosion and sedimentation control (such as electrical and lighting plans, boundary or lot surveys, building plans, non-stormwater related detail sheets, etc.).
- (O) Registrants for all locally exempt projects must submit an electronic copy of their Plan or a web address where the electronic Plan can be downloaded. The electronic Plan shall be in Adobe™ PDF format or similar publicly available format in common use. **DO NOT INCLUDE** in this Plan any pages or other material that do not pertain to stormwater management or erosion and sedimentation control (such as electrical and lighting plans, boundary or lot surveys, building plans, non-stormwater related detail sheets, etc.).
- (P) The certification of the registrant and of the individual or individuals responsible for actually preparing the registration, in accordance with Section 3(b)(8).
- (Q) For all registrations, a design certification must be signed by a professional engineer in accordance with Section 3(b)(9):.
- (R) For registrations for locally approvable projects a review certification must be signed by either: (i) a District in accordance with Section 3(b)(10), or (ii) a qualified soil erosion and sediment control professional and/or qualified professional engineer in accordance with either Section 3(b)(11).

If the registrant is not capable of submitting electronically, a paper form may be submitted in accordance with Section 4(d).

(3) Re-Registration Form

For sites previously registered under any previous version of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities and for which no Notice of Termination has been submitted pursuant to the “Termination Requirements” section (Section 6), a re-registration shall be filed electronically pursuant to Sections 3(c)(3) and 3(g) on forms prescribed and provided by the commissioner (available at: www.ct.gov/deep/stormwater) and shall include, but not be limited to, the following:

- (A) Legal name, address, and telephone number of the registrant. If the registrant is a person (as defined in Section 2 of this permit) transacting business in Connecticut and is registered with the Connecticut Secretary of the State, provide the exact name as registered with the Connecticut Secretary of the State.
- (B) The previously issued permit number (beginning with GSN).
- (C) Legal name, address and telephone number of the owner of the property on which the construction activity will take place.
- (D) Legal name, address and telephone number of the primary contact for departmental correspondence and inquiries, if different from the registrant.
- (E) Legal name, address and telephone number of the developer of the property on which the subject construction activity is to take place.
- (F) Legal name, address and daytime and off-hours telephone numbers of the general contractor(s) or other representative(s), if different from the developer.
- (G) Legal name, address and telephone number of any consultant(s) or engineer(s) retained by the permittee to prepare the registration and Stormwater Pollution Control Plan.
- (H) Location address or description of the site for which the re-registration is filed.
- (I) Indication of the normal working hours of the site.
- (J) The estimated duration of the construction activity.
- (K) The signature of the registrant and of the individual or individuals responsible for actually preparing the re-registration, each of who shall certify in writing as follows:

“I hereby certify that I am making this certification in connection with a registration under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY] and that all terms and conditions of the general permit are being met for all discharges which have been initiated and such activity is eligible for authorization under such permit. I further certify that all designs and plans for such activity meet the current terms and conditions of the general permit in accordance with Section 5(b)(5)(C) of such general permit and that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit at the site. I certify that the registration filed pursuant to this general permit is on complete and accurate forms as prescribed by the commissioner without alteration of their text. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section

3(b)(8)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I also understand that knowingly making any false statement made in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law.”

If the registrant is not capable of submitting electronically, a paper form may be submitted in accordance with Section 4(d).

(d) *Where to File a Registration*

A registration (available at: www.ct.gov/deep/stormwater) shall be filed electronically with the commissioner in accordance with Section 3(c)(2) or (3). If the registrant does not have the capability to submit electronically, a paper registration may be filed at the following address:

CENTRAL PERMIT PROCESSING UNIT
DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

(e) *Availability of Registration and Plan*

By the fifteenth (15th) day of each month, the commissioner shall post on the DEEP website a list of registrations submitted in the previous month.

(1) Registration Availability

On or before fifteen (15) days from the date of posting by the commissioner, members of the public may review and comment on a registration. Any electronically available Plans will be posted with the corresponding registration.

(2) Plan Availability

(A) Electronic Plan Availability

For an electronically available Plan, on or before fifteen (15) days from the date of posting by the commissioner, members of the public may review and comment on a registrant’s Plan.

(B) Non-Electronic Plan Availability

For any Plan that is not electronically available, on or before fifteen (15) days from the date of a registration posting by the commissioner, members of the public may submit a written request to the commissioner to obtain a copy of a registrant’s Plan. The commissioner shall inform the registrant of the request and the name of the requesting party. If the commissioner does not already have access to a copy of the requested Plan, the registrant shall submit a copy of their Plan to the commissioner within seven (7) days of their receipt of such request. On or before fifteen (15) days from the date the commissioner makes a Plan available to the requesting party, they may submit written comments on the Plan to the commissioner.

(f) Additional Information

The commissioner may require a permittee to submit additional information that the commissioner reasonably deems necessary to evaluate the consistency of the subject construction activity with the requirements for authorization under this general permit.

(g) Additional Notification

For discharges authorized by this general permit to a regulated municipal separate storm sewer system, a copy of the registration and all attachments thereto shall also be submitted to the owner and operator of that system.

For discharges authorized by this general permit to a DOT separate storm sewer system, a copy of the registration and all attachments thereto shall also be submitted to the DOT upon request.

For discharges within a public drinking water supply watershed or aquifer area, a copy of the registration and the Plan described in subsection 5(b) of this general permit shall be submitted to the water company.

For discharges to river components and tributaries which have been designated as Wild and Scenic under the Wild and Scenic Rivers Act, a copy of the registration and the Plan described in 5(b) of this general permit shall be submitted to the applicable Wild and Scenic Coordinating Committee. Please refer to Appendix H for additional guidance

In addition, a copy of this registration and the Plan shall be available upon request to the local inland wetlands agency established pursuant to section 22a-42 of the Connecticut General Statutes, or its duly authorized agent.

(h) Action by Commissioner

- (1) The commissioner may reject without prejudice a registration if it does not satisfy the requirements of the “Contents of Registration” section (subsection 4(c)) of this general permit. Any registration refiled after such a rejection shall be accompanied by the fee specified in the “Fees” subsection (subsection 4(c)(1)) of this general permit.
- (2) The commissioner may disapprove a registration if is inconsistent with the requirements for authorization under the “Requirements for Registration” section (Section 3(b)) of this general permit, or for any other reason provided by law.
- (3) Disapproval of a registration under this subsection shall constitute notice to the registrant that the subject construction activity must be authorized under an individual permit.
- (4) Rejection or disapproval of a registration shall be in writing.

(i) Transition to New General Permit

On or after August 1, 2013, up until and including August 31, 2013, a person filing a new registration for a site may file such registration: (a) under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities that expires on September 30, 2013; or (b) this general permit. A person filing a new registration for a site shall not register under both the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities that expires on September 30, 2013 and this general permit. After August 31, 2013, a person filing a new registration for a site shall only register under this general permit and shall be authorized pursuant to Section 3(g) of this general permit.

(Note: Any person who, on or after August 1, 2013, up until and including August 31, 2013, files a new registration for a site under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities that expires on September 30, 2013 shall, after October 1, 2013, re-register such site pursuant to Section 3(c)(3) and Section 4(c)(3) of this general permit.)

A person re-registering a site pursuant to Section 3(c)(3) and Section 4(c)(3) of this general permit may submit the required re-registration information anytime on or after August 1, 2013.

(j) *Latest Date to Submit a Registration Under this General Permit*

No person shall submit a registration under this general permit after June 30, 2018.

Section 5. Conditions of this General Permit

The permittee shall meet all requirements of this general permit at all times. In addition, a permittee shall be responsible for conducting authorized construction activities in accordance with the following conditions:

(a) *Conditions Applicable to Certain Discharges*

(1) Structures and Dredging in Coastal and Tidal Areas

Any person who or municipality that discharges stormwater into coastal tidal waters for which a permit is required under section 22a-361 of the Connecticut General Statutes (structures and dredging) or section 22a-32 of the Connecticut General Statutes (Tidal Wetlands Act), shall obtain such permit(s) from the commissioner. A tidal wetland permit is required for the placement of any sediment upon a tidal wetland, whether it is deposited directly or indirectly.

(2) Discharges to Tidal Wetlands

Any site which has a post-construction stormwater discharge to a tidal wetland (that is not a fresh-tidal wetland) where such discharge is within 500 feet of the tidal wetland, shall discharge such stormwater through a system designed to retain and infiltrate the volume of stormwater runoff generated by 1 inch of rainfall on the site. If there are site constraints that would prevent retention of this volume on-site (e.g., brownfields, capped landfills, bedrock, elevated groundwater, etc.), documentation must be submitted, for the commissioner's review and written approval, which explains the site limitations and offers an alternative retention volume. In such cases, the portion of 1 inch that cannot be retained must be provided with additional stormwater treatment so as to protect water quality. Any such treatment shall be designed, installed and maintained in accordance with the Stormwater Quality Manual.

For sites unable to comply with this section, the commissioner, at the commissioner's sole discretion, may require the submission of an individual permit in lieu of authorization under this general permit.

(3) Toxicity to Aquatic and Marine Life

The discharge shall not cause pollution due to acute or chronic toxicity to aquatic and marine life, impair the biological integrity of aquatic or marine ecosystems, or result in an unacceptable risk to human health.

(4) Water Quality Standards

The stormwater discharge shall not cause or contribute to an exceedance of the applicable Water Quality Standards in the receiving water.

(5) High Quality Waters

Any new or increased stormwater discharge to high quality waters shall be discharged in accordance with the Connecticut Anti-Degradation Implementation Policy in the Water Quality Standards.

(b) Stormwater Pollution Control Plan

All registrants shall develop and maintain on-site a Stormwater Pollution Control Plan (Plan) for the construction activity authorized by this general permit. Once the construction activity begins, the permittee shall perform all actions required by such Plan and shall maintain compliance with the Plan thereafter. The Plan shall be designed to minimize (as defined in Section 2): (1) pollution caused by soil erosion and sedimentation during and after construction; and (2) stormwater pollution caused by use of the site after construction is completed.

(1) Development and Contents of Plan

(A) The Plan shall consist of site plan drawings and a narrative. The Plan shall be prepared in accordance with sound engineering practices, and shall be consistent with the Guidelines and the 2004 Connecticut Stormwater Quality Manual (available at <http://www.ct.gov/deep/stormwater>). The Plan shall also be consistent with any remedial action plan, closure plan or other plan required by any other DEEP permit.

(B) The Plan shall include, at a minimum, the following items:

(i) Site Plan

Site drawings indicating drainage patterns and approximate slopes anticipated after major grading activities, areas of soil disturbance, the location of major structural and non-structural controls (as specified in subsection 5(b)(2), below), the location of areas where stabilization practices are expected to occur, areas which will be vegetated following construction, monitored outfalls, surface waters, impaired waters (identifying those with and without a TMDL), high quality waters, inland wetlands, tidal wetlands, fresh-tidal wetlands, and locations where stormwater will be discharged to a surface water (both during and post-construction);

(ii) Site Description

(a) A narrative description of the nature of the construction activity;

(b) An estimate of the total area of the site and the total area of the site that is expected to be disturbed by construction activities;

(c) An estimate of the average runoff coefficient of the site after construction activities are completed;

(d) The name of the immediate receiving water(s) and the ultimate receiving water(s) of the discharges authorized by this general permit; and

(e) Extent of wetland acreage on the site.

(iii) Construction Sequencing

The Plan shall clearly identify the expected sequence of major construction activities on the site and corresponding erosion and sediment controls and shall include an estimated timetable for all construction activities, which shall be revised as necessary to keep the Plan current. Wherever possible, the site shall be phased to avoid the disturbance of over five acres at one time (or a lesser area of disturbance as required in the “Impaired Waters” section (Section 5(b)(3)). The Plan shall clearly show the limits of disturbance for the entire construction activity and for each phase.

(iv) Control Measures

The Plan shall include a description, in narrative and on the site plan drawings, of appropriate control measures that will be performed at the site to minimize the discharge of pollutants to waters of the state. Control measures shall be implemented in accordance with Section 5(b)(2) below. In addition, the following information shall be provided:

- (a) Calculations supporting the design of sediment and floatables removal controls pursuant to Section 5(b)(2)(C)(ii)(b).
- (b) Calculations supporting the design of velocity dissipation controls pursuant to Section 5(b)(2)(C)(ii)(c).

(v) Runoff Reduction and Low Impact Development (LID) Information

Where runoff reduction practices and/or LID measures are utilized, the following information shall be included in the site plan and narrative:

- (a) The location of the site’s streams, floodplains, all wetlands, riparian buffers, slopes 3:1 and steeper, and vegetation identified for preservation and non-disturbance during construction such as forested areas, hay fields, and old fields;
- (b) Natural drainage patterns, swales, and other drainage ways, that are not streams, floodplains, or wetland areas;
- (c) The location of all areas with soils suitable for infiltration¹ and areas of the site best suited for infiltration for the siting of runoff reduction practices and LID design measures;
- (d) The location of all areas unsuitable or least suitable for infiltration for the siting of areas of development/building;
- (e) The location of all post-construction stormwater management measures, runoff reduction practices and LID design measures developed pursuant to subsection 5(b)(2)(C)(i) below;
- (f) Identification of areas inappropriate for the infiltration of stormwater runoff from land uses with a significant potential for groundwater pollution;

¹ Infiltration rates must be measured by a field permeability test. The measured field design infiltration rate is equal to one-half the field-measured infiltration rate.

- (g) A narrative describing the nature, purpose, implementation and long-term maintenance of the post-construction measures, runoff reduction practices and LID design measures;
- (h) Calculations, for measures developed pursuant to Section 5(b)(2)(C)(i), illustrating the retention of the water quality volume or half the water quality volume for the site, as applicable, including a discussion of the impact of any runoff reduction and/or LID practices on these calculations.
- (i) A narrative describing any site constraints that prevent retention of the appropriate volume specified in Section 5(b)(2)(C)(i) including: an explanation of the site limitations; a description of the runoff reduction practices implemented; an explanation of why the amount retained constitutes the maximum extent achievable; an alternative retention volume; and a description of the measures used to provide additional stormwater treatment for sediment, floatables and nutrients above the alternate volume up to the water quality volume.
- (j) Calculations showing the proposed effective impervious cover for the site and, where necessary or appropriate for measures developed for linear projects pursuant to Section 5(b)(2)(C)(i), each outfall drainage area.

(vi) Inspections

The Plan shall include a narrative of all inspection personnel conducting the routine inspections, their responsibilities and procedures pursuant to subsection 5(b)(4)(B) below. The Plan shall also include documentation of the qualifications of the inspector(s) and the findings, actions and results of all inspections conducted at the site.

(vii) Monitoring

The Plan shall provide a narrative of the stormwater monitoring procedures pursuant to Section 5(c). This narrative shall include documentation of the monitoring frequency, personnel conducting monitoring, identification of monitored outfalls, methodology for monitoring, provisions for monitoring a linear project (if applicable), the site's normal working hours, the method for measuring turbidity and a copy of all monitoring records.

(viii) Contractors

- (a) The Plan shall clearly identify each contractor and subcontractor that will perform construction activities on the site that have the potential to cause pollution of the waters of the State. The Plan shall include a copy of the certification statement in the "Contractor Certification Statement" section, below, signed by each such contractor and subcontractor.

(b) Contractor Certification Statement

The Plan shall include the following certification signed by each contractor and subcontractor identified in the Plan as described above:

"I certify under penalty of the law that I have read and understand the terms and conditions of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities. I understand that as a contractor or

subcontractor at the site, I am authorized by this general permit, and must comply with the terms and conditions of this general permit, including, but not limited to, the requirements of the Stormwater Pollution Control Plan prepared for the site.”

The certification shall include the name and title of the person providing the signature; the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification is made.

(c) Subdivisions

Where individual lots in a subdivision or other common plan of development are conveyed or otherwise the responsibility of another person or municipality, those individual lot contractors shall be required to comply with the provisions of this general permit and the Stormwater Pollution Control Plan, and shall sign the certification statement in the “Contractor Certification Statement” section, above, regardless of lot size or disturbed area. In such cases, the permittee shall provide a copy of the Plan to each individual lot contractor, obtain signed certifications from such contractors and retain all signed certifications in the Plan.

(ix) Impaired Waters

For construction activities that discharge to impaired waters, as specified in “New Discharges to Impaired Waters” (Section 3(b)(12)), the Plan shall include a description of the provisions for controlling the construction and post-construction stormwater discharges to these waters pursuant to subsection 5(b)(3) below.

(2) Stormwater Control Measures

Control Measures are required Best Management Practices (BMPs) that the permittee must implement to minimize the discharge of pollutants from the permitted activity. The term “minimize” means reduce and/or eliminate to the extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice.

Control Measures shall be designed in accordance with the Guidelines, the Stormwater Quality Manual or the DOT Qualified Products List (http://www.ct.gov/dot/lib/dot/documents/dresearch/conndot_qpl.pdf). Use of controls to comply with the “Erosion and Sediment Controls” section (subsection (A) below) of this general permit that are not included in those resources must be approved by the commissioner or the commissioner’s designated agent. The narrative and drawings of controls shall address the following minimum components:

(A) Erosion and Sediment Controls

(i) Soil Stabilization and Protection

The Plan shall include a narrative and drawings of interim and permanent soil stabilization practices for managing disturbed areas and soil stockpiles, including a schedule for implementing the practices. The Permittee shall ensure that existing vegetation is preserved to the maximum extent practicable and that disturbed portions of the site are minimized and stabilized.

Where construction activities have permanently ceased or when final grades are reached in any portion of the site, stabilization and protection practices as specified in Chapter 5 of the Guidelines or as approved by the commissioner or his/ her designated agent shall be implemented within seven days. Areas that will remain disturbed but inactive for at least thirty days shall receive temporary seeding or soil protection within seven days in accordance with the Guidelines.

Areas that will remain disturbed beyond the seeding season as identified in the Guidelines, shall receive long-term, non-vegetative stabilization and protection sufficient to protect the site through the winter. In all cases, stabilization and protection measures shall be implemented as soon as possible in accordance with the Guidelines or as approved by the commissioner or his/ her designated agent.

A reverse slope bench is required for any slope steeper than 3:1 (horizontal: vertical) that exceeds 15 feet vertically, except when engineered slope stabilization structures or measures are included or a detailed soil mechanics analysis has been conducted to verify stability. Engineered analyses and measures must be designed by a CT licensed Professional Engineer with experience in geotechnical engineering or soil mechanics.

(ii) Structural Measures

The Plan shall include a narrative and drawings of structural measures to divert flows away from exposed soils, store flows or otherwise limit runoff and minimize the discharge of pollutants from the site. Unless otherwise specifically approved in writing by the commissioner or his/ her designated agent, or if otherwise authorized by another state or federal permit, structural measures shall be installed on upland soils.

For points of discharge from disturbed sites with a total contributing drainage area of between two to five acres, a temporary sediment trap must be installed in accordance with the Guidelines. For points of discharge from disturbed sites with a total contributing drainage area greater than five acres, a temporary basin must be designed and installed in accordance with the Guidelines. Such trap(s) or basin(s) must be maintained until final stabilization of the contributing area as defined in "Notice of Termination" (Section 6(a)).

The requirement for sediment traps or basins shall not apply to flows from off-site areas and flows from the site that are either undisturbed or have undergone final stabilization where such flows are diverted around the temporary sediment trap or basin. Any exceptions must be approved in writing by the commissioner or his/ her designated agent.

(iii) Maintenance

The Plan shall include a narrative of the procedures to maintain in good and effective operating conditions all erosion and sediment control measures, including vegetation, and all other protective measures identified in the site plan. Maintenance of all erosion and sediment controls shall be performed in accordance with the Guidelines, or more frequently as necessary, to protect the waters of the state from pollution.

(B) Dewatering Wastewaters

Dewatering wastewaters shall be managed in accordance with the Guidelines. Dewatering wastewaters discharged to surface waters shall be discharged in a manner that minimizes the discoloration of the receiving waters. The Plan shall include a narrative and drawings of the

operational and structural measures that will be used to ensure that all dewatering wastewaters will not cause scouring or erosion or contain suspended solids in amounts that could reasonably be expected to cause pollution of surface waters of the State. Unless otherwise specifically approved in writing by the commissioner or his/ her designated agent, or if otherwise authorized by another state or federal permit, dewatering measures shall be installed on upland soils.

No discharge of dewatering wastewater(s) shall contain or cause a visible oil sheen, floating solids, or foaming in the receiving water.

(C) Post-Construction Stormwater Management

The Plan shall include a narrative and drawings of measures that will be installed during the construction process to minimize the discharge of pollutants in stormwater discharges that will occur after construction operations have been completed. Post-construction stormwater management measures shall be designed and implemented in accordance with the Stormwater Quality Manual, the DOT Qualified Products List or as approved by the commissioner or his/ her designated agent in writing. Unless otherwise specifically provided by the commissioner in writing, or authorized by another state or federal permit, structural measures shall be placed on upland soils. The Plan shall include provisions to address the long-term maintenance of any post-construction stormwater management measure installed.

(i) Post-Construction Performance Standards

The permittee shall utilize runoff reduction practices (as defined in Section 2) to meet runoff volume requirements based on the conditions below. For sites unable to comply with these conditions, the commissioner, at the commissioner's sole discretion, may require the submission of an individual permit in lieu of authorization under this general permit.

(a) Redevelopment

For sites that are currently developed with an effective impervious cover of forty percent or more and for which the permittee is proposing redevelopment, the permittee shall design the site in such a manner as to retain on-site half the water quality volume (as defined in Section 2) for the site and provide additional stormwater treatment without retention for discharges up to the full water quality volume for sediment, floatables and nutrients to the maximum extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice. In cases where the permittee is not able to retain half the water quality volume, the permittee shall design the redevelopment to retain runoff volume to the maximum extent achievable using control measures that are technologically available and economically practicable and achievable in light of best industry practice. In such cases, additional stormwater treatment up to the full water quality volume is still required. Any such treatment shall be designed, installed and maintained in accordance with the Stormwater Quality Manual. If retention of the half the water quality volume is not achieved, the permittee shall submit a report to the commissioner describing: the measures taken to maximize runoff reduction practices on the site; the reasons why those practices constitute the maximum extent achievable; the alternative retention volume; and a description of the measures used to provide additional stormwater treatment above the alternate volume up to the water quality volume. In the case of linear redevelopment projects (e.g. roadway reconstruction or widening) for the developed portion of

the right of way: (1) for projects that may be unable to comply with the full retention standard, the alternate retention and treatment provisions may also be applied as specified above, or (2) for projects that will not increase the effective impervious cover within a given watershed, the permittee shall implement the additional stormwater treatment measures referenced above, but will not be required to retain half of the water quality volume.

(b) Other Development

The following performance standard applies to all sites that are currently undeveloped or are currently developed with less than forty percent effective impervious cover. For these sites, the permittee shall design the site to retain the water quality volume for the site. If there are site constraints that would prevent retention of this volume on-site (e.g., brownfields, capped landfills, bedrock, elevated groundwater, etc.), documentation must be submitted, for the commissioner's review and written approval, which: explains the site limitations; provides a description of the runoff reduction practices implemented; provides an explanation of why this constitutes the maximum extent achievable; offers an alternative retention volume; and provides a description of the measures used to provide additional stormwater treatment for sediment, floatables and nutrients above the alternate volume up to the water quality volume. Any such treatment shall be designed, installed and maintained in accordance with the Stormwater Quality Manual. In the case of linear projects that do not involve impervious surfaces (e.g. electrical transmission rights-of-way or natural gas pipelines), retention of the water quality volume is not required as long as the post-development runoff characteristics do not differ significantly from pre-development conditions.

(ii) Post-Construction Control Measures

(a) Runoff Reduction and Low Impact Development ("LID") Practices

The site design shall incorporate runoff reduction practices, low impact development ("LID") practices or other measures to meet the performance standards in subsection (i) above, promote groundwater recharge and minimize post-construction impacts to water quality. Please refer to Appendix B for additional guidance information.

(b) Suspended Solids and Floatables Removal

The permittee shall install post-construction stormwater management measures designed to minimize the discharge of suspended solids and floatables (e.g. oil and grease, other floatable liquids, floatable solids, trash, etc.) from stormwater. A goal of 80 percent removal of the annual sediment load from the stormwater discharge shall be used in designing and installing stormwater management measures. The Plan shall provide calculations supporting the capability of such measures in achieving this goal and any third-party verification, as applicable, of the sediment removal efficiencies of such measures. This goal is not intended to limit local approval authorities from requiring a higher standard pursuant to local requirements.

(c) Velocity Dissipation

Velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow to the receiving watercourse so that the natural physical and biological characteristics and functions are maintained and protected.

(D) Other Controls

The following additional controls shall be implemented:

(i) Waste Disposal: Best management practices shall be implemented to minimize the discharge of litter, debris, building materials, hardened concrete waste, or similar materials to waters of the State. A narrative of these practices shall be provided in the Plan.

(ii) Washout Areas

Washout of applicators, containers, vehicles and equipment for concrete, paint and other materials shall be conducted in a designated washout area. There shall be no surface discharge of washout wastewaters from this area. Such washout shall be conducted: (1) outside of any buffers and at least 50 feet from any stream, wetland or other sensitive resource; or (2) in an entirely self-contained washout system. The permittee shall clearly flag off and designate areas to be used for washing and conduct such activities only in these areas. The permittee shall direct all washwater into a container or pit designed such that no overflows can occur during rainfall or after snowmelt.

In addition, dumping of liquid wastes in storm sewers is prohibited. The permittee shall remove and dispose of hardened concrete waste consistent with practices developed for the "Waste Disposal" section (subparagraph 5(b)(2)(D)(i), above). At least once per week, the permittee must inspect any containers or pits used for washout to ensure structural integrity, adequate holding capacity, and to check for leaks or overflows. If there are signs of leaks, holes or overflows in the containers or pits that could lead to a discharge, the permittee shall repair them prior to further use. For concrete washout areas, the permittee shall remove hardened concrete waste whenever the hardened concrete has accumulated to a height of ½ of the container or pit or as necessary to avoid overflows. A narrative of maintenance procedures and a record of maintenance and inspections shall be included in the Plan.

(iii) Off-site vehicle tracking of sediments and the generation of dust shall be minimized. Wet dust suppression shall be used, in accordance with section 22a-174-18(b) of the Connecticut General Statutes, for any construction activity that causes airborne particulates. The volume of water sprayed for controlling dust shall be minimized so as to prevent the runoff of water. No discharge of dust control water shall contain or cause a visible oil sheen, floating solids, visible discoloration, or foaming in the receiving stream.

(iv) All post-construction stormwater structures shall be cleaned of construction sediment and any remaining silt fence shall be removed upon stabilization of the site.

(v) All chemical and petroleum product containers stored on the site (excluding those contained within vehicles and equipment) shall be provided with impermeable containment which will hold at least 110% of the volume of the largest container, or

10% of the total volume of all containers in the area, whichever is larger, without overflow from the containment area. All chemicals and their containers shall be stored under a roofed area except for those chemicals stored in containers of 100 gallon capacity or more, in which case a roof is not required. Double-walled tanks satisfy this requirement.

(3) Additional Control Measures for Impaired Waters

For construction activities that discharge directly to impaired waters, as specified in “New Discharges to Impaired Waters” (Section 3(b)(12)), the Plan shall include the following provisions:

- (A) In lieu of the provisions of “Construction Sequencing” (Section 5(b)(1)(B)(iii)), no more than 3 acres may be disturbed at any one time. For those areas for which construction activity will be temporarily suspended for a period of greater than 14 days, temporary stabilization measures shall be implemented within 3 days of such suspension of activity. For all areas, permanent stabilization shall be implemented within 30 days of disturbance; *or*
- (B) The Plan shall document that measures are in place to ensure that there will be no discharge to the impaired water from rain events up to a 2-year, 24-hour rain event while construction activity is occurring; *or*
- (C) For discharges to impaired waters with an established TMDL:
 - (i) the Plan shall document that there is sufficient remaining Waste Load Allocation (WLA) in the TMDL to allow the discharge, *and*
 - (ii) measures shall be implemented to ensure the WLA will not be exceeded, *and*
 - (iii) stormwater discharges shall be monitored, if applicable, for any indicator pollutant identified in the TMDL for every rain event that produces a discharge to ensure compliance with the WLA. Such monitoring shall be in addition to the requirements specified in Section 5(c), *or*
 - (iv) the specific requirements for stormwater discharges specified in the TMDL are met.

Construction activities discharging to impaired waters that do not comply with this subsection are not authorized by this general permit.

(4) Inspections

All construction activities submitting a registration for this general permit shall be inspected initially for Plan implementation and then weekly for routine inspections.

(A) Plan Implementation Inspections

Within the first 30 days following commencement of the construction activity on the site, the permittee shall contact: (1) the appropriate District; or (2) a qualified soil erosion and sediment control professional or a qualified professional engineer to inspect the site. The site shall be inspected at least once and no more than three times during the first 90 days to confirm compliance with the general permit and proper initial implementation of all controls measures designated in the Plan for the site for the initial phase of construction. For sites not inspected by District personnel, the following conditions shall apply:

- (i) for projects disturbing more than one acre and less than fifteen (15) acres, the inspector shall be someone who:
 - (a) is not an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the registrant, and
 - (b) has no ownership interest of any kind in the project for which the registration is being submitted.
- (ii) for projects disturbing fifteen (15) acres or more, the inspector shall be someone who:
 - (a) is not an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the registrant, and
 - (b) has not engaged in any activities associated with the preparation, planning, designing or engineering of such plan for soil erosion and sediment control or plan for engineered stormwater management systems on behalf of such registrant, and
 - (c) is not under the same employ as any person who engaged in any activities associated with the preparation, planning, designing or engineering of such plans and specifications for soil erosion and sediment control or plans and specifications for engineered stormwater management systems on behalf of such registrant, and
 - (d) has no ownership interest of any kind in the project for which the registration is being submitted.

The permittee may use, if they wish, the same person(s) that provided the Plan Review Certification pursuant to Section 5(b)(11).

(B) Routine Inspections

The permittee shall routinely inspect the site for compliance with the general permit and the Plan for the site until a Notice of Termination has been submitted. Inspection procedures for these routine inspections shall be addressed and implemented in the following manner:

- (i) The permittee shall maintain a rain gauge on-site to document rainfall amounts. At least once a week and within 24 hours of the end of a storm that generates a discharge, a qualified inspector (provided by the permittee), as defined in the “Definitions” section (Section 2) of this general permit, shall inspect, at a minimum, the following: disturbed areas of the construction activity that have not been finally stabilized; all erosion and sedimentation control measures; all structural control measures; soil stockpile areas; washout areas and locations where vehicles enter or exit the site. These areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system and impacts to the receiving waters. Locations where vehicles enter or exit the site shall also be inspected for evidence of off-site sediment tracking. For storms that end on a weekend, holiday or other time after which normal working hours will not commence within 24 hours, an inspection is required within 24 hours only for storms that equal or exceed 0.5 inches. For storms of less than 0.5 inches, an inspection shall occur immediately upon the start of the subsequent normal working hours. Where sites have been temporarily or finally stabilized, such inspection shall be conducted at least once every month for three months.
- (ii) The qualified inspector(s) shall evaluate the effectiveness of erosion and sediment controls, structural controls, stabilization practices, and any other controls implemented

to prevent pollution and determine if it is necessary to install, maintain, or repair such controls and/or practices to improve the quality of stormwater discharge(s).

- (iii) A report shall be prepared and retained as part of the Plan. This report shall summarize: the scope of the inspection; name(s) and qualifications of personnel making the inspection; the date(s) of the inspection; weather conditions including precipitation information; major observations relating to erosion and sediment controls and the implementation of the Plan; a description of the stormwater discharge(s) from the site; and any water quality monitoring performed during the inspection. The report shall be signed by the permittee or his/her authorized representative in accordance with the "Certification of Documents" section (subsection 5(i)) of this general permit.

The report shall include a statement that, in the judgment of the qualified inspector(s) conducting the site inspection, the site is either in compliance or out of compliance with the terms and conditions of the Plan and permit. If the site inspection indicates that the site is out of compliance, the inspection report shall include a summary of the remedial actions required to bring the site back into compliance. Non-engineered corrective actions (as identified in the Guidelines) shall be implemented on site within 24 hours and incorporated into a revised Plan within three (3) calendar days of the date of inspection unless another schedule is specified in the Guidelines. Engineered corrective actions (as identified in the Guidelines) shall be implemented on site within seven (7) days and incorporated into a revised Plan within ten (10) days of the date of inspection, unless another schedule is specified in the Guidelines or is approved by the commissioner. During the period in which any corrective actions are being developed and have not yet been fully implemented, interim measures shall be implemented to minimize the potential for the discharge of pollutants from the site.

- (iv) Inspectors from the DEEP and the appropriate District may inspect the site for compliance with this general permit at any time construction activities are ongoing and upon completion of construction activities to verify the final stabilization of the site and/or the installation of post-construction stormwater management measures pursuant to Section 6(a).
- (v) Additional inspections, reports and documentation may also be required to comply with the "Monitoring Requirements" section (Section 5(c)).

(5) Keeping Plans Current

The Permittee is responsible for keeping their Plan in compliance with this general permit at all times. This may involve any or all of the following:

- (A) The permittee shall amend the Plan if the actions required by the Plan fail to prevent pollution or fail to otherwise comply with any other provision of this general permit. The Plan shall also be amended whenever there is a change in contractors or subcontractors at the site, or a change in design, construction, operation, or maintenance at the site which has the potential for the discharge of pollutants to the waters of the state and which has not otherwise been addressed in the Plan.
- (B) The commissioner may notify the permittee at any time that the Plan and/or the site do not meet one or more of the minimum requirements of this general permit. Within 7 days of such notice, or such other time as the commissioner may allow, the permittee shall make the required changes to the Plan and perform all actions required by such revised Plan. Within 15 days of such notice, or such other time as the commissioner may allow, the permittee shall submit to the commissioner a written certification that the requested changes have been

made and implemented and such other information as the commissioner requires, in accordance with the ‘Duty to Provide Information’ and ‘Certification of Documents’ sections (subsections 5(h) and 5(i)) of this general permit.

- (C) For any stormwater discharges authorized under any previous version of this general permit, the existing Plan shall be updated by February 1, 2014, as applicable, in accordance with the “Development and Contents of the Plan” (subsection 5(b)(1)), “Stormwater Control Measures” (subsection 5(b)(2)), “Routine Inspections” (subsection 5(b)(4)(B)), and “Monitoring” (subsection 5(c)) sections of this general permit, except for the post-construction measures in subsection 5(b)(2)(C)(i)(a) & (b) and 5(b)(2)(C)(ii)(a). The permittee shall maintain compliance with such Plan thereafter. For previously authorized sites discharging to impaired waters or other sensitive areas, the commissioner may require additional control measures or provide authorization under an individual permit pursuant to Sections 4(h) and 3(i).

(6) Failure to Prepare, Maintain or Amend Plan

In no event shall failure to complete, maintain or update a Plan, in accordance with the “Development of Contents of the Plan” and “Keeping Plans Current” sections (subsections 5(b)(1) and 5(b)(5)) of this general permit, relieve a permittee of responsibility to implement any actions required to protect the waters of the state and to comply with all conditions of the permit.

(7) Plan Signature

The Plan shall be signed and certified as follows:

- (A) The Plan shall be signed by the permittee in accordance with the “Certification of Documents” section (subsection 5(i)) of this general permit.
- (B) The Plan shall include certification by all contractors and subcontractors in accordance with the “Contractors” section (subsection 5(b)(1)(B)(viii)) of this general permit.
- (C) The Plan shall include a copy of the certification by a professional engineer or landscape architect made in accordance with Section 3(b)(9) of this general permit.

(8) Plan Review Certification

For a locally approvable project pursuant to Section 3(c) of this general permit, a copy of the Plan review certification made in accordance with either Section 3(b)(10) or (11) shall be maintained with the Plan. Note that construction activities reviewed and certified pursuant to those sections are still subject to the local erosion and sediment control and stormwater management regulations of the municipality in which the activity is conducted.

(9) Plan Submittal

The Plan shall be submitted to the commissioner and other certain parties under the following conditions:

- (A) All Locally Exempt Projects with greater than one acre of soil disturbance shall submit an electronic copy of the Plan and a completed Registration Form to the commissioner.
- (B) For all other projects, the permittee shall provide a copy of the Plan, and a completed Registration Form for this general permit to the following persons immediately upon request:

- (i) The commissioner at his or her request or at the request of a member of the public during the registration and Plan availability period pursuant to Section 4(e);
- (ii) The municipal planning commission, zoning commission and/or inland wetlands agency, or its respective enforcement officer or designated agent;
- (iii) In the case of a stormwater discharge through a municipal separate storm sewer system, the municipal operator of the system;
- (iv) In the case of a stormwater discharge located within a public drinking water supply watershed or aquifer area, the water company responsible for that water supply.

DO NOT SUBMIT any pages or other material that do not pertain to stormwater management or erosion and sedimentation control (such as electrical and lighting plans, boundary or lot surveys, building plans, non-stormwater related detail sheets, etc.).

(c) Monitoring Requirements

The primary requirements for monitoring turbidity are summarized in the table below:

Table 1

<i>Area of Soil Disturbance</i>	<i>Monitoring Required?</i>	<i>Monitoring Frequency</i>	<i>Sample Method</i>
Sites which disturb 1 acre or more, but less than 5 acres	Only IF a Registration is required	Monthly IF a Registration is required	Procedure consistent with 40 CFR Part 136
Sites which disturb 5 acres or more	Yes	Monthly	Procedure consistent with 40 CFR Part 136

(1) Turbidity Monitoring Requirements

(A) Monitoring Frequency

- (i) Sampling shall be conducted in accordance with Table 1, above, at least once every month, when there is a discharge of stormwater from the site while construction activity is ongoing, until final stabilization of the drainage area associated with each outfall is achieved.
- (ii) The permittee is only required to take samples during normal working hours as defined in Section 2. The site’s normal working hours must be identified in the Plan pursuant to Section 5(b)(1)(B)(vii). If sampling is discontinued due to the end of normal working hours, the permittee shall resume sampling the following morning or the morning of the next working day following a weekend or holiday, as long as the discharge continues.
- (iii) Sampling may be temporarily suspended any time conditions exist that may reasonably pose a threat to the safety of the person taking the sample. Such conditions may include high winds, lightning, impinging wave or tidal activity, intense rainfall or other

hazardous condition. Once the unsafe condition is no longer present, sampling shall resume.

(iv) If there is no stormwater discharge during a month, sampling is not required.

(B) Sample Collection

- (i) All samples shall be collected from discharges resulting from a storm event that occurs at least 24 hours after any previous storm event generating a stormwater discharge. Any sample containing snow or ice melt must be identified on the Stormwater Monitoring Report form. Sampling of snow or ice melt in the absence of a storm event is not a valid sample.
- (ii) Samples shall be grab samples taken *at least* three separate times during a storm event and shall be *representative* of the flow and characteristics of the discharge(s). Samples may be taken manually or by an in-situ turbidity probe or other automatic sampling device equipped to take individual turbidity readings (i.e. not composite). The first sample shall be taken within the first hour of stormwater discharge from the site. In cases where samples are collected manually and the discharge begins outside of normal working hours, the first sample shall be taken at the start of normal working hours.

(C) Sampling Locations

(i) Sampling is required of all point source discharges of stormwater from disturbed areas except as may be modified for linear projects under subparagraph (ii) below. Where there are two or more discharge points that discharge substantially identical runoff, based on similarities of the exposed soils, slope, and type of stormwater controls used, a sample may be taken from just one of the discharge points. In such case, the permittee shall report that the results also apply to the substantially identical discharge point(s). No more than 5 substantially identical outfalls may be identified for one representative discharge. If such project is planned to continue for more than one year, the permittee shall rotate twice per year the location where samples are taken so that a different discharge point is sampled every six months. The Plan must identify each outfall authorized by this permit and describe the rationale for any substantially identical outfall determinations.

(ii) Linear Projects

For a linear project, as defined in Section 2, the protocols of subparagraph (i), above, shall apply except that up to 10 substantially identical outfalls may be identified for one representative discharge.

(iii) All sampling point(s) shall be identified in the Plan and be clearly marked in the field with a flag, stake, or other visible marker.

(D) Sampling and analysis shall be prescribed by 40 CFR Part 136.

(E) Turbidity Values

The stormwater discharge turbidity value for each sampling point shall be determined by taking the average of the turbidity values of all samples taken at that sampling point during a given storm.

(2) Stormwater Monitoring Reports

- (A) Within thirty (30) days following the end of each month, permittees shall enter the stormwater sampling result(s) on the Stormwater Monitoring Report (SMR) form (available at www.ct.gov/deep/stormwater) and submit it in accordance with the NetDMR provisions in subsection F, below, or, if the permittee has opted out of NetDMR, to the following address:

Bureau of Materials Management and Compliance Assurance
Water Permitting and Enforcement Division (Attn: DMR Processing)
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

- (B) If there was no discharge during any given monitoring period, the permittee shall submit the form as required with the words “no discharge” entered in place of the monitoring results.
- (C) If the permittee monitors any discharge more frequently than required by this general permit, the results of this monitoring shall be included in additional SMRs for the month in which the samples were collected.
- (D) If sampling protocols are modified due to the limitations of normal working hours or unsafe conditions in accordance with Section 5(c)(1)(A)(ii) or (iii) above, a description of and reason for the modifications shall be included with the SMR.
- (E) If the permittee samples a discharge that is representative of two or more substantially identical discharge points, the permittee shall include the names or locations of the other discharge points.
- (F) NetDMR Reporting Requirements
- (i) Prior to one-hundred and eighty (180) days after the issuance of this permit, the Permittee may either submit monitoring data and other reports to the Department in hard copy form or electronically using NetDMR, a web-based tool that allows Permittees to electronically submit stormwater monitoring reports through a secure internet connection. Unless otherwise approved in writing by the commissioner, no later than one-hundred and eighty (180) days after the issuance of this permit the Permittee shall begin reporting electronically using NetDMR. Specific requirements regarding subscription to NetDMR and submittal of data and reports in hard copy form and for submittal using NetDMR are described below:

(a) Submittal of NetDMR Subscriber Agreement

On or before fifteen (15) days after the issuance of this permit, the Permittee and/or the person authorized to sign the Permittee’s discharge monitoring reports (“Signatory Authority”) as described in RCSA Section 22a-430-3(b)(2) shall contact the Department at deep.netdmr@ct.gov and initiate the NetDMR subscription process for electronic submission of Stormwater Monitoring Report information. Information on NetDMR is available on the Department’s website at www.ct.gov/deep/netdmr. On or before ninety (90) days after issuance of this permit the Permittee shall submit a signed and notarized copy of the *Connecticut DEEP NetDMR Subscriber Agreement* to the Department.

(b) Submittal of Reports Using NetDMR

Unless otherwise approved by the commissioner, on or before one-hundred and eighty (180) days after issuance of this permit, the Permittee and/or the Signatory Authority shall electronically submit SMRs required under this permit to the Department using NetDMR in satisfaction of the SMR submission requirements of Sections 5(c)(2)(A) of this permit.

SMRs shall be submitted electronically to the Department no later than the 30th day of the month following the completed reporting period. Any additional monitoring conducted in accordance with 40 CFR 136 shall be submitted to the Department as an electronic attachment to the SMR in NetDMR. Once a Permittee begins submitting reports using NetDMR, it will no longer be required to submit hard copies of SMRs to the Department. NetDMR is accessed from: <http://www.epa.gov/netdmr>.

(c) Submittal of NetDMR Opt-Out Requests

If the Permittee is able to demonstrate a reasonable basis, such as technical or administrative infeasibility, that precludes the use of NetDMR for electronically submitting SMRs, the commissioner may approve the submission of SMRs in hard copy form (“opt-out request”). Opt-out requests must be submitted in writing to the Department for written approval on or before fifteen (15) days prior to the date a Permittee would be required under this permit to begin filing SMRs using NetDMR. This demonstration shall be valid for twelve (12) months from the date of the Department’s approval and shall thereupon expire. At such time, SMRs shall be submitted electronically to the Department using NetDMR unless the Permittee submits a renewed opt-out request and such request is approved by the Department.

All opt-out requests and requests for the NetDMR subscriber form should be sent to the following address or by email at deep.netdmr@ct.gov:

Attn: NetDMR Coordinator
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

(d) Reporting and Record Keeping Requirements

- (1) For a period of at least five years from the date that construction is complete, the permittee shall retain copies of the Plan and all reports required by this general permit, and records of all data used to complete the registration for this general permit, unless the commissioner specifies another time period in writing. Inspection records must be retained as part of the Plan for a period of five (5) years after the date of inspection.
- (2) The permittee shall retain an updated copy of the Plan required by this general permit at the construction site from the date construction is initiated at the site until the date construction at the site is completed.

(e) *Regulations of Connecticut State Agencies Incorporated into this General Permit*

The permittee shall comply with sections 22a-430-3 and 22a-430-4 of the Regulations of Connecticut State Agencies which are hereby incorporated into this general permit, as if fully set forth herein.

(f) *Reliance on Registration*

In evaluating the registrant's registration, the commissioner has relied on information provided by the registrant. If such information proves to be false or incomplete, any authorization reliant on such information may be suspended or revoked in accordance with law, and the commissioner may take any other legal action provided by law.

(g) *Duty to Correct and Report Violations*

Upon learning of a violation of a condition of this general permit, unless otherwise specified in this general permit, a permittee shall immediately take all reasonable action to determine the cause of such violation, correct and mitigate the results of such violation, prevent further such violation, and report in writing such violation and such corrective action to the commissioner within five (5) days of the permittee's learning of such violation. Such information shall be filed in accordance with the "Certification of Documents" section (Section 5(i)) of this general permit.

(h) *Duty to Provide Information*

If the commissioner requests any information pertinent to the construction activity or to compliance with this general permit or with the permittee's authorization under this general permit, the permittee shall provide such information within fifteen (15) days of such request or other time period as may be specified in writing by the commissioner. Such information shall be filed in accordance with the "Certification of Documents" section (Section 5(i)) of this general permit.

(i) *Certification of Documents*

Unless otherwise specified in this general permit, any document, including but not limited to any notice, information or report, which is submitted to the commissioner under this general permit shall be signed by the permittee, or a duly authorized representative of the permittee, and by the individual or individuals responsible for actually preparing such document, each of whom shall certify in writing as follows:

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with section 22a-6 of the Connecticut General Statutes, pursuant to section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."

(j) *Date of Filing*

For purposes of this general permit, the date of filing with the commissioner of any document is the date such document is received by the commissioner. The word "day" as used in this general permit means the calendar day; if any date specified in the general permit falls on a Saturday, Sunday, or legal holiday, such deadline shall be the next business day thereafter.

(k) *False Statements*

Any false statement in any information submitted pursuant to this general permit may be punishable as a criminal offense, in accordance with section 22a-6 of the Connecticut General Statutes, pursuant to section 53a-157b of the Connecticut General Statutes.

(l) *Correction of Inaccuracies*

Within fifteen (15) days after the date a permittee becomes aware of a change in any information in any material submitted pursuant to this general permit, or becomes aware that any such information is inaccurate or misleading or that any relevant information has been omitted, such permittee shall correct the inaccurate or misleading information or supply the omitted information in writing to the commissioner. Such information shall be filed in accordance with the certification requirements prescribed in Section 5(i) of this general permit.

(m) *Transfer of Authorization*

Any authorization issued by the commissioner under this general permit is transferable only in accordance with the provisions of section 22a-6o of the General Statutes. Any person or municipality proposing to transfer any such authorization shall submit a license transfer form to the commissioner. The transferee is not authorized to conduct any activities under this general permit until the transfer is approved by the commissioner (typically 30 days). The transferee may adopt by reference the Plan developed by the transferor. The transferee shall amend the Plan as required by the “Keeping Plans Current” Section 5(b)(5) of this general permit).

(n) *Reopener*

At such time as the USEPA may institute a new rule for post-construction stormwater management or modify the requirements for their National Pollutant Discharge Elimination System (NPDES) General Permit for Discharges from Construction Activities (CGP) to institute a numeric Effluent Limitation Guideline (ELG) for turbidity in stormwater discharges from construction activities, the commissioner may reopen this general permit pursuant to the Section 40 Part 122.62(a) of the Code of Federal Regulations for implementation of these elements.

(o) *Other Applicable Law*

Nothing in this general permit shall relieve the permittee of the obligation to comply with any other applicable federal, state and local law, including but not limited to the obligation to obtain any other authorizations required by such law.

(p) *Other Rights*

This general permit is subject to and does not derogate any present or future rights or powers of the State of Connecticut and conveys no rights in real or personal property nor any exclusive privileges, and is subject to all public and private rights and to any federal, state, and local laws pertinent to the property or construction activity affected by such general permit. In conducting any construction activity authorized hereunder, the permittee may not cause pollution, impairment, or destruction of the air, water, or other natural resources of this state. The issuance of this general permit shall not create any presumption that this general permit should or will be renewed.

Section 6. Termination Requirements

(a) *Notice of Termination*

At the completion of a construction project registered pursuant to the “Registration Requirements” section (Section 4) of this general permit, a Notice of Termination must be filed with the commissioner. A project shall be considered complete after all post-construction measures are installed, cleaned and functioning and the site has been stabilized for at least three months following the cessation of construction activities. A site is considered stabilized when there is no active erosion or sedimentation present and no disturbed areas remain exposed **for all phases**.

(1) Post-Construction Inspection

For locally approvable projects, once all post-construction stormwater measures have been installed in accordance with the Post-Construction Stormwater Management section (subsection 5(b)(2)(C)) and cleaned of any construction sediment or debris, the registrant shall contact the appropriate Conservation District or a qualified soil erosion and sediment control professional and/or a qualified professional engineer, as appropriate, who will inspect the site to confirm compliance with these post-construction stormwater measures. This person(s) shall not be an employee, as defined by the Internal Revenue Service in the Internal Revenue Code of 1986, of the permittee and shall have no ownership interest of any kind in the project for which the site’s registration was submitted.

(2) Final Stabilization Inspection

For all projects, once the site has been stabilized for at least three months, the registrant shall have the site inspected by a qualified inspector to confirm final stabilization. The registrant shall indicate compliance with this requirement on the Notice of Termination form.

(b) *Termination Form*

A termination notice shall be filed on forms prescribed and provided by the commissioner and shall include the following:

- (1) The permit number as provided to the permittee on the permit certificate.
- (2) The name of the registrant as reported on the general permit registration form (DEEP-PED-REG-015).
- (3) The address of the completed construction site.
- (4) The dates when:
 - (A) All storm drainage structures were cleaned of construction debris pursuant to the “Other Controls” section (subsection 5(b)(2)(D)) of this general permit; and
 - (B) The post-construction inspection was conducted pursuant to subsection 6(a)(1), above; and
 - (C) The date of completion of construction; and
 - (D) The date of the final stabilization inspection pursuant to subsection 6(a)(2), above.
- (5) A description of the post-construction activities at the site.

(6) Signatures of:

(A) The permittee; and

(B) The person certifying the post-construction inspection pursuant to subsection 6(a)(1), above.

(c) *Where to File a Termination Form*

A termination form shall be filed with the commissioner at the following address:

CENTRAL PERMITS PROCESSING UNIT
BUREAU OF MATERIALS MANAGEMENT & COMPLIANCE ASSURANCE
DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

Section 7. Commissioner's Powers

(a) *Abatement of Violations*

The commissioner may take any action provided by law to abate a violation of this general permit, including but not limited to penalties of up to \$25,000 per violation per day under Chapter 446k of the Connecticut General Statutes, for such violation. The commissioner may, by summary proceedings or otherwise and for any reason provided by law, including violation of this general permit, revoke a permittee's authorization hereunder in accordance with sections 22a-3a-2 through 22a-3a-6, inclusive, of the Regulations of Connecticut State Agencies. Nothing herein shall be construed to affect any remedy available to the commissioner by law.

(b) *General Permit Revocation, Suspension, or Modification*

The commissioner may, for any reason provided by law, by summary proceedings or otherwise, revoke or suspend this general permit or modify to establish any appropriate conditions, schedules of compliance, or other provisions which may be necessary to protect human health or the environment.

(c) *Filing of an Individual Permit Application*

If the commissioner notifies a permittee in writing that such permittee must obtain an individual permit if he wishes to continue lawfully conducting the construction activity, the permittee shall file an application for an individual permit within thirty (30) days of receiving the commissioner's notice. While such application is pending before the commissioner, the permittee shall continue to comply with the terms and conditions of this general permit. Nothing herein shall affect the commissioner's power to revoke a permittee's authorization under this general permit at any time.

Issued:

August 21, 2013


Daniel C. Esty
Commissioner

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

APPENDIX A

Endangered and Threatened Species

In order to be eligible for coverage under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (“GP” or “the GP”), under section 3(b)(2) of the GP, a registrant must ensure that the construction activity, which includes, but is not limited to, excavation, site development or other ground disturbance activities, and stormwater flow, discharges and control measures (“construction activity”), does not threaten the continued existence of any state or federal species listed as endangered or threatened (“listed species”) or result in the destruction or adverse modification of any habitat associated with such species.

In order to prevent significant, unforeseen delays in the processing of a registration under the GP, registrants should assess compliance with section 3(b)(2) early in the planning stages of a project. The Department of Energy and Environmental Protection (“the Department”) strongly recommends that this assessment *be initiated up to one year, or more*, prior to the projected construction initiation date, and even before the purchase of the site of the construction activity. At a minimum, registrants must assess compliance with section 3(b)(2) prior to submission of the Registration Form for the GP.

This Appendix describes the ways that a registrant can comply with section 3(b)(2) of the GP. In connection with the filing of a registration a registrant can perform a self-assessment described in Section 1, seek a limited one-year determination or a safe harbor determination from the Department’s Wildlife Division under Sections 2 or 3, respectively, or stipulate in writing to the presence of listed species or any habitat associated with such species and develop a mitigation plan pursuant to Section 5 of this Appendix. While some means of compliance are more limited than others, the options set out in this Appendix are not mutually exclusive and all options remain available to a registrant. For example, a registrant may perform a self-assessment under Section 1 and seek a safe harbor determination under Section 3 of this Appendix. Provided the requirements of this Appendix are met, the choice of how to proceed is the registrant’s.

Section 1. Self Assessment through Natural Diversity Database Map Review and Screening

Before submission of a registration for coverage under this GP, a registrant must review the current versions of the Department’s Natural Diversity Data Base (“NDDB”) maps. Except as provided for in Sections 2, 3 or 5 of this Appendix, such review must occur no more than six months before such submission. Such review provides a method for screening whether the Department is already aware of listed species that may be present on the site of the construction activity. These maps can be viewed at the following locations:

1. Online at the following links:

[CT DEEP Natural Diversity Data Base Maps](#)
[CTECO Webpage](#) (in the interactive Simple Map Viewer)

2. At the DEEP Public File Room at 79 Elm Street in Hartford.

Screening

The site of the construction activity must be compared to the shaded areas depicted on the NDDDB map to determine if the site is entirely, partially, or within ¼ mile of a shaded area. If the site is entirely, partially or within a ¼ mile of a shaded area for a listed species a registrant can only achieve compliance with section 3(b)(2) of the GP by obtaining a limited one-year determination under Section 2, a safe harbor determination under Section 3, or an approved mitigation plan under Section 5 of this Appendix from the Department's Wildlife Division.

If the site of the construction activity is not entirely, partially or within ¼ mile of a shaded area, then the Department is not aware of any listed species at the site of the construction activity. Based upon this screening, and provided the registrant has no reasonably available verifiable, scientific or other credible information that the construction activity could reasonably be expected to violate section 3(b)(2) of the GP, when completing the Registration Form for this GP a registrant may check the box that indicates that the construction activity will not impact federal or state listed species.

A registrant using only self-assessment under this section may utilize the results of any such self assessment for up to, but no more than, six months from the date of such assessment. Note, however, that the NDDDB maps are not the result of comprehensive state-wide field investigations, but rather serve as a screening tool. Using such maps as a screening tool does not provide a registrant with an assurance that listed species or their associated habitat may not be encountered at the site of the construction activity. Notwithstanding the NDDDB screening results, if a listed species is encountered at the site of the construction activity, the registrant shall promptly contact the Department and may need to take additional action to ensure that the registrant does not violate section 3(b)(2) of the GP.

Section 2. Obtaining a Limited One-Year Determination

A registrant may seek a written determination from the Department's Wildlife Division, good for one-year, that the proposed construction activity complies with section 3(b)(2) of the GP. To obtain this limited one-year determination, a registrant must, in addition to conducting the NDDDB map review in Section 1 of this Appendix, provide the Department's Wildlife Division with (1) any reasonably available verifiable, scientific or other credible information about whether the construction activity could reasonably be expected to result in a violation of section 3(b)(2) of the GP, and (2) limited information about the site of the proposed construction activity, but less information than would be necessary for a safe harbor determination under Section 3 of this Appendix. The limited information necessary for a one-year determination is on the current "Request for Natural Diversity Database (NDDDB) State Listed Species Review" form on the Department's website. The form and instructions for seeking such a limited one-year determination are available at www.ct.gov/DEEP/nddbrequest.

Provided the registrant's information is accurate and the Department's Wildlife Division determines that the construction activity will not violate section 3(b)(2) of the GP, the registrant shall receive a limited one-year determination from the Department. Any such determination may indicate that the construction activity will not impact listed species or their associated habitat, or it may include specific conditions to be implemented to avoid or significantly minimize any impacts that may be encountered at the site of the construction activity. For purposes of submitting a registration for the GP, any such limited one-year determination can be relied upon by the person receiving such determination for one-year from the date of such determination. Like, however, the NDDDB screening procedure in Section 1 of this Appendix, a limited one-year determination does not provide a registrant with an assurance that listed species or their associated habitat may not be encountered at the site of the construction activity. If a listed species is encountered, the registrant shall promptly contact the Department

and may need to take additional action to ensure that the construction activity does not violate section 3(b)(2) of the GP.

If a registrant receives a limited one-year determination from the Department, the registrant should check the limited one-year determination box on the GP registration form and include the Department's one-year limited determination letter if requested on the GP Registration form. Checking the limited one-year determination box on the registration form and failing to provide the determination letter from the Department's Wildlife Division, if requested on the GP Registration form, will delay and may prevent processing of a registration.

If based upon the information provided by a registrant seeking a limited one-year determination the Department's Wildlife Division determines that the construction activity could impact listed species or their associated habitat, or that the Department needs additional information to make a limited one-year determination, the registrant may still achieve compliance with section 3(b)(2) of the GP through providing additional information pursuant to Section 4 or developing a mitigation plan pursuant to Section 5 of this Appendix.

A registrant may request one or more one-year extensions to a limited one-year determination under this section. If the Department's Wildlife Division has prescribed a form for requesting an extension, any such request shall be made using the prescribed form. There is a presumption that requests for a one-year extension of a limited one-year determination shall be granted. However, this presumption can be rebutted if the Department determines that a change in any of the following has occurred since an initial limited one-year determination or any extension was granted: the construction activity affecting or potentially affecting listed species or their associated habitat; the NDDB maps for the site of the construction activity; the limited information upon which a limited one-year determination or any extension was granted; or other information indicative of a change in circumstance affecting listed species or their associated habitat. Any one-year extension granted under this paragraph shall run from the date the Department's Wildlife Division issues its determination to grant an extension and shall be treated as a limited one-year determination as provided for in this section. Any letter granting a one-year extension shall be included with a registration along with the original limited one-year determination as provided for in this section.

Section 3. Obtaining a Safe Harbor Determination

A registrant may seek a written determination from the Department's Wildlife Division, good for three years, with the potential to be extended for an additional year, that proposed construction activity complies with section 3(b)(2) of the GP. Any such determination shall constitute a "safe harbor" for purposes of section 3(b)(2) of the GP.

To obtain a safe harbor determination, a registrant must, in addition to conducting the NDDB review in section 1 of this Appendix, provide the Department's Wildlife Division with any reasonably available verifiable, scientific or other credible information about whether the construction activity could reasonably be expected to result in a violation of section 3(b)(2) of the GP and specific information about the site of the construction activity. The specific information necessary for a safe harbor determination is listed in Attachment A to this Appendix. This information must be sufficient to allow the Wildlife Division to adequately assess the site for potential risks to listed species and their associated habitat. While the Department recognizes certain information is necessary to make a safe harbor determination, it also recognizes that a registrant may need to obtain a safe harbor determination early in its project's approval process in order to make prudent business decisions about purchasing a site or proceeding to final project designs. The form and instructions for seeking a safe harbor determination are available at www.ct.gov/DEEP/nddbrequest.

Provided the registrant's information is accurate and the Department's Wildlife Division determines that the construction activity will not violate section 3(b)(2) of the GP, the registrant shall receive a safe harbor determination from the Department. A safe harbor determination may indicate that the construction activity will not impact listed species or their associated habitat, or it may include specific conditions to be implemented to avoid or significantly minimize any impacts that may be encountered at the site of the construction activity. The Department shall honor the safe harbor determination for three years from the date it is issued, meaning that unlike the NDDB review in Section 1 or the limited one-year determination in Section 2 of this Appendix, if the Department makes a safe harbor determination and a registrant remains in compliance with any conditions in any such determination, irrespective of what may be found at the site of the construction activity, a registrant shall be considered in compliance with section 3(b)(2) of the GP. However, a safe harbor determination shall not be effective if a construction activity may threaten the continued existence of any federally listed species or its critical habitat under federal law. If a federally listed species or its critical habitat is encountered on the site of the construction activity, the registrant shall promptly contact the Department and may need to take additional action to ensure that the construction activity does not violate federal law or section 3(b)(2) of the GP.

If a registrant receives a safe harbor determination from the Department, the registrant should check the safe harbor determination box on the GP registration form and include the Department's safe harbor determination if requested on the GP Registration form. Checking the safe harbor box on the registration form and failing to provide the safe harbor determination letter from the Department's Wildlife Division, if requested on the GP Registration form, will delay and may prevent processing of a registration.

If based upon the information provided by a registrant seeking a safe harbor determination the Department's Wildlife Division determines that the construction activity could impact listed species or their associated habitat, or that the Department needs additional information to make a safe harbor determination, the registrant may still achieve compliance with section 3(b)(2) of the GP through providing additional information pursuant to Section 4 or developing a mitigation plan pursuant to Section 5 of this Appendix.

If a registrant receives a safe harbor determination from the Department's Wildlife Division, anytime during the third year of such safe harbor, a registrant may request a one-year extension of that safe harbor. If the Department's Wildlife Division has prescribed a form for requesting an extension, any such request shall be made using the prescribed form. There is a presumption that a request for a one-year extension of a safe harbor shall be granted. However, this presumption can be rebutted if the Department determines that a change in any of the following has occurred since the safe harbor was granted: the construction activity affecting or potentially affecting listed species or their associated habitat; the NDDB maps for the site of the construction activity; the information upon which the safe harbor was granted; or other information indicative of a change in circumstance affecting listed species or their associated habitat. A registrant may seek only one extension, for one-year, to a safe harbor determination. Any one-year extension granted under this paragraph shall run from the date of the Department's Wildlife Division issues its determination to grant an extension and shall be honored by the Department in the same manner as a safe harbor determination noted above. Any letter granting a one-year extension shall be included with a registration along with the original limited safe harbor determination as provided for in this section.

Section 4. Providing Additional Information

For the Department's Wildlife Division to make a limited one-year determination under Section 2 or a safe harbor determination under section 3 of this Appendix, limited additional information may be required to determine if the construction activity would impact listed species or their associated habitat. If the species in question is a state listed endangered or threatened species under section 26-306 of the general statutes, a registrant shall, in consultation with the Department's Wildlife Division, provide the limited additional

information requested by the Department's Wildlife Division. Such information may include, but is not limited to, a survey of specific listed species in question. If the species in question is a federally listed threatened or endangered species, in addition to the Department's Wildlife Division, a registrant shall also consult with the U.S. Fish and Wildlife Service and shall provide any additional information requested by that agency. A registrant that initially sought or obtained a limited one-year determination may, after providing the additional information required under this section request a safe harbor determination under Section 3 of this Appendix.

At any time, as an alternative to proceeding under Section 2, 3 or 4 of this Appendix, a registrant may stipulate, in writing, to the presence of one or more listed species or their associated habitat. A registrant choosing this alternative shall proceed to develop a mitigation plan under Section 5 of this Appendix.

If based upon any additional information provided to the Department's Wildlife Division, and as applicable, the U.S. Fish & Wildlife Service, the Department's Wildlife division determines that construction activity will be in compliance with section 3(b)(2) of the GP, a registrant shall receive a limited one-year determination under Section 2 or a safe harbor determination under Section 3 of this Appendix, as applicable.

If the Department's Wildlife Division determines that additional information is necessary to determine if the construction activity has the potential to impact listed species or their associated habitat, and a registrant chooses to not provide such information, a registrant shall proceed with the self assessment through an NDDB review under Section 1 of this Appendix, or stipulate to the existence of a listed species or associated habitat and develop a mitigation plan under Section 5 or such registrant shall not be eligible to register under the GP.

Section 5. Developing a Mitigation Plan

The Department's Wildlife Division may determine that the construction activity has the potential to adversely impact listed species or their associated habitat. However, it may be possible to modify the construction activity or undertake certain on-site measures to avoid or significantly minimize such impacts. If the species or associated habitat in question is a state listed endangered or threatened species under section 26-306 of the general statutes, a registrant shall consult with the Department's Wildlife Division to determine if an acceptable mitigation plan can be developed so impacts can be avoided or minimized such that a registrant remains in compliance with section 3(b)(2). If the species in question is a federally listed threatened or endangered species, any such consultation shall also include the U.S. Fish and Wildlife Service.

If a registrant in consultation with the Department's Wildlife Division, and as applicable, the U.S. Fish & Wildlife Service, develops a mitigation plan that is approved by the Department's Wildlife Division, or as applicable, the U.S. Fish & Wildlife Service, the registrant shall receive a limited one-year determination under Section 2 or a safe harbor determination under Section 3 of this Appendix. In this situation, in addition to checking the one-year determination box or the safe harbor determination box, as applicable, on the registration form, the registrant shall also check the box on the registration form indicating that it has an approved mitigation plan and provide a status update on the registration form as to whether it has completed or is still in the process of implementing the approved mitigation plan.

If an approved mitigation plan has not been fully implemented by the time a registration is submitted, completing all remaining tasks in the plan shall become an enforceable condition of any registration issued to the registrant.

If the Department determines that the construction activity has the potential to adversely impact listed species or their associated habitat and the registrant and the Department, and as applicable, the U.S. Fish & Wildlife Service, are not able to agree on an acceptable mitigation plan that is approved by the Department, and as applicable, the U.S. Fish & Wildlife Service, any such registrant shall not be eligible to register under the GP.

APPENDIX A
ATTACHMENT A

Specific Information Needed to Apply for a Safe Harbor Determination

A Safe Harbor Determination will be made upon the submission of a detailed report that fully addresses the matters noted below. For the Department's Wildlife Division to make a safe harbor determination, the report should synthesize and analyze this information, not simply compile information. Those providing synthesis and analysis need appropriate qualifications and experience. A request for a safe harbor determination shall include:

1) Habitat Information, including GIS mapping overlays, identifying:

- wetlands, including wetland cover types;
- plant community types;
- topography;
- soils;
- bedrock geology;
- floodplains, if any;
- land use history; and
- water quality classifications/criteria.

2) Photographs - The report should also include photographs of the site, including all reasonably available aerial or satellite photographs and an analysis of such photographs.

3) Inspection - The report should include a visual inspection(s) of the site, preferably when the ground is visible. This inspection can also be helpful in confirming or further evaluating the items noted above.

4) Biological Surveys - The report should include all biological surveys of the site where construction activity will take place that are reasonably available to a registrant. A registrant shall notify the Department's Wildlife Division of biological studies of the site where construction activity will take place that a registrant is aware of but are not reasonably available to the registrant.

5) Based on items #1 through 4 above, the report shall include a Natural Resources Inventory of the site of the construction activity. This inventory should also include a review of reasonably available scientific literature and any recommendations for minimizing adverse impacts from the proposed construction activity on listed species or their associated habitat.

6) In addition, to the extent the following is available at the time a safe harbor determination is requested, a request for a safe harbor determination shall include and assess:

- Information on Site Disturbance Estimates/Site Alteration information
- Vehicular Use
- Construction Activity Phasing Schedules, if any; and
- Alternation of Drainage Patterns

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

APPENDIX B

Connecticut Department of Energy & Environmental Protection Inland Water Resources Division Fact Sheet Considering Low Impact Development Principles in Site Design

In order to reduce the impact of development and address stormwater quality issues, the Department strongly encourages the use of Low Impact Development (LID) measures. LID is a site design strategy intended to maintain or replicate predevelopment hydrology through the use of small-scale controls, integrated throughout the site, to manage stormwater runoff as close to its source as possible. Infiltration of stormwater through LID helps to remove sediments, nutrients, heavy metals, and other types of pollutants from runoff.

Key Strategies for LID

Key strategies for effective LID include: infiltrating, filtering, and storing as much stormwater as feasible, managing stormwater close to where the rain/snow falls, managing stormwater at multiple locations throughout the landscape, conserving and restoring natural vegetation and soils, preserving open space and minimizing land disturbance, designing the site to minimize impervious surfaces, and providing for maintenance and education. Water quality and quantity benefits are maximized when multiple techniques are grouped together. In areas of compacted and/or possibly contaminated soils, soil suitability should be further investigated prior to selecting optimum treatment and/or remediation measures. Where soil conditions permit, the DEEP encourages the utilization of one, or a combination of, the following measures:

- the use of pervious pavement or grid pavers (which are very compatible for parking lot and fire lane applications), or impervious pavement without curbs or with notched curbs to direct runoff to properly designed and installed infiltration areas;
- the use of vegetated swales, tree box filters, and/or infiltration islands to infiltrate and treat stormwater runoff (from building roofs, roads, and parking lots);
- the minimization of access road widths and parking lot areas to the maximum extent possible to reduce the area of impervious surface;
- the use of dry wells to manage runoff from building roofs;
- incorporation of proper physical barriers or operational procedures for special activity areas where pollutants could potentially be released (e.g. loading docks, maintenance and service areas, dumpsters, etc.);
- the installation of rainwater harvesting systems to capture stormwater from building roofs for the purpose of reuse for irrigation (i.e. - rain barrels for residential use and cisterns for larger developments);
- the use of residential rain gardens to manage runoff from roofs and driveways;
- the use of vegetated roofs (green roofs) to detain, absorb, and reduce the volume of roof runoff; and
- providing for pollution prevention measures to reduce the introduction of pollutants to the environment.

The [2004 Stormwater Quality Manual LID Appendix](#) and the [2002 Erosion and Sediment Control Guidelines LID Appendix](#) both provide guidance on implementing LID measures. A guide to LID resources can also be found in the [DEEP Low Impact Development Resources Factsheet](#) (PDF).

LID in Urban Areas

If the proposed site is located in a highly urbanized area, it is likely underlain by urban land complex soils. The Natural Resources Conservation Service (NRCS) Soil Web Survey (<http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm>) provides information on soil textures, parent materials, slopes, height of seasonal high water table, depth to restrictive layer, and permeability. In highly developed areas, infiltration may be limited due to the high percentage of impervious cover. However, infiltration practices may be suitable at urban sites depending on:

- Potential contamination of soils in historically industrialized areas. The siting of areas for infiltration must consider any existing soil or groundwater contamination.
- Site specific soil conditions. NRCS mapping consists of a minimum 3 acres map unit and soils may vary substantially within each mapping unit. Test pits should be dug in areas
- planned for infiltration practices to verify soil suitability and/or limitations.
- Investigation of areas of compacted soils and the utilization of proper construction staging. Planning should insure that areas to be used for infiltration are not compacted during the construction process by vehicles or machinery.

Even if infiltration is limited at a site, it is still possible to implement LID practices. Specifically, potential exists for the installation of green roofs on buildings and/or the use of cisterns to capture and reuse rainwater.

LID in Areas with a High Seasonal Water Table or Hardpan Layer

- The impact of stormwater runoff to any streams and/or wetlands near the site should be considered. Water quality treatment is influenced by hydraulic conductivity and time of travel. If stormwater infiltration is limited by an impermeable layer close to the surface, the water may run laterally through the ground and discharge to the stream or wetlands, providing limited water quality treatment. However, a longer time of travel may provide sufficient treatment. Proper soil testing for infiltration potential will increase the likelihood of successful BMP design.
- In areas with a high seasonal water table, bioretention areas/rain gardens should be planted with water tolerant/wetland plants. The presence of a high seasonal water table suggests that water may drain slowly or not at all during certain parts of the year. Planting native wetland vegetation will help to ensure plant survival and increase the effectiveness of bioretention practices. Information on native plantings that are both drought tolerant and tolerant of wet conditions can be found in The UConn Cooperative Extension System’s guide to building a rain garden at http://nemo.uconn.edu/publications/rain_garden_broch.pdf. Native plant lists for Connecticut can also be found at <http://www.fhwa.dot.gov/environment/rdsduse/ct.htm>.

LID Guidance for Federal Projects

- LID techniques have been utilized by Department of Defense (DoD) agencies during the last several years. The effectiveness of these projects in managing runoff as well as reducing construction and maintenance costs has created significant interest in LID. The DoD has created a Unified Facilities Criteria document, Low Impact Development that provides guidelines for integrating LID planning and design into a facility’s regulatory and resource protection programs. It is available on-line at: http://www.wbdg.org/ccb/DOD/UFC/ufc_3_210_10.pdf.
- Section 438 of the Energy Independence and Security Act (EISA) of 2007 requires federal agencies to reduce stormwater runoff from federal development projects to protect water resources. In December 2009, the EPA developed a technical guidance document on implementing the stormwater runoff requirements for federal projects under Section 438 of EISA. The document contains guidance on how compliance with Section 438 can be achieved, measured and evaluated and can be found at: http://www.epa.gov/owow/NPS/lid/section438/pdf/final_sec438_eisa.pdf.

For more information contact the CT DEEP Watershed Management/Low Impact Development Program:

Name	Area	Telephone
MaryAnn Nusom Haverstock	Program Oversight/ Low Impact Development	(860) 424-3347
Chris Malik	Watershed Manager	(860) 424-3959
Susan Peterson	Watershed Manager	(860) 424-3854
Eric Thomas	Watershed Manager	(860) 424-3548

List of Runoff Reduction/LID Practices

Re-Forestation
Disconnection of Rooftop Runoff
Disconnection of Non-Rooftop Runoff
Sheetflow to Conservation Areas
Green Roof
Permeable Pavement
Rainwater Harvesting
Submerged Gravel Wetlands
Micro-Infiltration
Rain Gardens
Bioretention
Landscape Infiltration
Grass Swales
Bio-swales
Wet Swales
Stormwater Ponds
Stormwater Wetlands
Stormwater Filtering Systems
Stormwater Infiltration



General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

APPENDIX C

AQUIFER PROTECTION AREAS AND OTHER GROUNDWATER DRINKING SUPPLY AREAS GUIDANCE INFORMATION

The Pollution Control Plan (“the Plan”) should consider measures to reduce or mitigate potential impacts to both ground water (aquifers) and surface waters, taking into consideration both quantity and quality of the runoff. The emphasis should be to minimize, to the extent possible, changes between pre-development and post-development runoff rates and volumes.

The basic stormwater principals for Aquifer Protection Areas (and other groundwater drinking supply areas) are to prevent inadvertent pollution discharges/releases to the ground, while encouraging recharge of stormwater where it does not endanger groundwater quality. Measures include:

- prevent illicit discharges to storm water, including fuel/chemical pollution releases to the ground;
- minimize impervious coverage and disconnect large impervious areas with natural or landscape areas;
- direct paved surface runoff to aboveground type land treatment structures – sheet flow, surface swales, depressed grass islands, detention/retention and infiltration basins, and wet basins. These provide an opportunity for volatilization of volatile organic compounds to the extent possible before the stormwater can infiltrate into the ground;
- provide necessary impervious pavement in high potential pollutant release areas. These “storm water hot spots” include certain land use types or storage and loading areas, fueling areas, intensive parking areas and roadways (see table below);
- only use subsurface recharge structures such as dry wells, galleries, or leaching trenches, to directly infiltrate clean runoff such as rooftops, or other clean surfaces. These structures do not adequately allow for attenuation of salts, solvents, fuels or other soluble compounds in groundwater that may be contained in runoff; and
- restrict pavement deicing chemicals, or use an environmentally suitable substitute such as sand only, or alternative de-icing agents such as calcium chloride or calcium magnesium.

Infiltration of stormwater should be **restricted** under the following site conditions:

- **Land Uses or Activities with Potential for Higher Pollutant Loads:** Infiltration of stormwater from these land uses or activities (refer to Table 7-5 below), also referred to as stormwater “hotspots,” can contaminate public and private groundwater supplies. Infiltration of stormwater from these land uses or activities may be allowed by the review authority with appropriate pretreatment. Pretreatment could consist of one or a combination of the primary or secondary treatment practices described in the Stormwater Quality Manual provided that the treatment practice is designed to remove the stormwater contaminants of concern.
- **Subsurface Contamination:** Infiltration of stormwater in areas with soil or groundwater contamination such as brownfield sites and urban redevelopment areas can mobilize contaminants.
- **Groundwater Supply and Wellhead Areas:** Infiltration of stormwater can potentially contaminate groundwater drinking water supplies in immediate public drinking water wellhead areas.

Land Uses or Activities with Potential for Higher Pollutant Loads
 Table 7-5 of the 2004 Stormwater Quality Manual

<u>Land Use/Activities</u>	
<ul style="list-style-type: none"> • Industrial facilities subject to the DEEP Industrial Stormwater General Permit or the U.S. EPA National Pollution Discharge Elimination System (NPDES) Stormwater Permit Program • Vehicle salvage yards and recycling facilities • Vehicle fueling facilities (gas stations and other facilities with on-site vehicle fueling) • Vehicle service, maintenance, and equipment cleaning facilities • Fleet storage areas (cars, buses, trucks, public works) • Commercial parking lots with high intensity use (shopping malls, fast food restaurants, convenience stores, supermarkets, etc.) • Public works storage areas 	<ul style="list-style-type: none"> • Road salt storage facilities (if exposed to rainfall) • Commercial nurseries • Flat metal rooftops of industrial facilities • Facilities with outdoor storage and loading/unloading of hazardous substances or materials, regardless of the primary land use of the facility or development • Facilities subject to chemical inventory reporting under Section 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA), if materials or containers are exposed to rainfall • Marinas (service and maintenance) • Other land uses and activities as designated by the review authority

For further information regarding the design of stormwater collection systems in Aquifer Protection Areas, contact the Aquifer Protection Area Program at (860) 424-3020 or visit www.ct.gov/deep/aquiferprotection.



General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

APPENDIX D

Coastal Management Act Determination Form

For sites within the Coastal Boundary, please attach this form and written approval from the local governing authority (or verification of exemption) to the Registration Form for the Discharge of Stormwater and Dewatering Wastewaters From Construction Activities.

SITE INFORMATION

Future Permittee _____
Mailing Address _____
Business Phone _____ ext.: _____ Fax: _____
Contact Person _____ Title: _____
Site Name _____
Site Address/ Location _____
Site Latitude and Longitude _____
Receiving Water (name, basin) _____
Project Description _____

STATEMENT OF REVIEW:

<p>The above referenced project is consistent with the goals and policies in section 22a-92 of the Connecticut General Statutes and will not cause adverse impacts to coastal resources as defined in section 22a-93(15) of the Connecticut General Statutes.</p> <p>Date of Coastal Site Plan Approval: _____</p> <p><input type="checkbox"/> Copy of written approval attached, or</p> <p><input type="checkbox"/> Verification of exemption attached</p>

APPENDIX E
(Exhibit 3 of District/DEEP Memorandum of Agreement)

Conservation Districts of Connecticut
Regional Delineations and Contact Information

Northwest Conservation District
1185 New Litchfield Street
Torrington, CT 06790
Ph: 860-626-7222
Fax: 860-626-7222
Email: ncd@conservect.org

Eastern Connecticut Conservation District
238 West Town Street
Norwich, CT 06360-2111
Ph: 860-887-4163 x 400 Fax: 860-887-4082
Email: kate.johnson.eccd@comcast.net

Connecticut River Coastal Conservation District, Inc.
deKoven House Community Center
27 Washington Street
Middletown, CT 06457
Ph: 860-346-3282 Fax: 860-346-3284
Email: ctrivercoastal@conservect.org

Southwest Conservation District
51 Mill Pond Road
Hamden, CT 06514
Ph: 203-287-8179 Fax: 203-288-5077
Email: swcd43@sbcglobal.net

North Central Conservation District
24 Hyde Avenue
Vernon, CT 06066
Ph: 860-875-3881 Fax: 860-870-8973
Email: tollandc@snet.net

NORTHWEST	SOUTHWEST	NORTH CENTRAL	CT RIVER COASTAL	EASTERN
Barkhamsted	Ansonia	Avon	Berlin	Andover
Bethel	Beacon Falls	Bloomfield	Chester	Ashford
Bethlehem	Bethany	Bolton	Clinton	Bozrah
Bridgewater	Branford	Bristol	Colchester	Brooklyn
Brookfield	Bridgeport	Burlington	Cromwell	Canterbury
Canaan	Cheshire	Canton	Deep River	Chaplin
Colebrook	Darien	Coventry	Durham	Columbia
Cornwall	Derby	East Granby	East Haddam	Eastford
Danbury	East Haven	East Hartford	East Hampton	East Lyme
Goshen	Easton	East Windsor	Essex	Franklin
Hartland	Fairfield	Ellington	Haddam	Griswold
Harwinton	Greenwich	Enfield	Hebron	Groton
Kent	Guilford	Farmington	Killingworth	Hampton
Litchfield	Hamden	Glastonbury	Lyme	Killingly
Morris	Meriden	Granby	Madison	Lebanon
New Fairfield	Middlebury	Hartford	Marlborough	Ledyard
New Hartford	Milford	Manchester	Middlefield	Lisbon
New Milford	Monroe	Plainville	Middletown	Mansfield
Newtown	Naugatuck	Simsbury	Newington	Montville
Norfolk	New Canaan	Somers	New Britain	New
North Canaan	New Haven	South Windsor	Old Lyme	London
Plymouth	North Branford	Stafford	Old Saybrook	North
Roxbury	North Haven	Suffield	Portland	Stonington
Salisbury	Norwalk	Tolland	Rocky Hill	Norwich
Sharon	Orange	Vernon	Salem	Plainfield
Sherman	Oxford	West Hartford	Westbrook	Pomfret
Southbury	Prospect	Wethersfield		Preston
Thomaston	Redding	Willington		Putnam
Torrington	Ridgefield	Windsor		Scotland
Warren	Seymour	Windsor Locks		Sprague
Washington	Shelton			Sterling
Watertown	Southington			Stonington
Winchester	Stamford			Thompson
Woodbury	Stratford			Union
	Trumbull			Voluntown
	Wallingford			Waterford
	Waterbury			Windham
	West Haven			Woodstock
	Weston			
	Westport			
	Wilton			
	Wolcott			
	Woodbridge			

APPENDIX F

Memorandum of Agreement Between The Connecticut Department of Energy & Environmental Protection and the Conservation Districts of Connecticut

WHEREAS, the Commissioner of the Department of Energy and Environmental Protection (“Department” or “DEEP”) is authorized by section 22a-6(2)(3) and (4) of the Connecticut General Statutes (“CGS”) to enter into this Agreement; and

WHEREAS, the five Conservation Districts of Connecticut (collectively, the “Districts”), are not-for-profit corporations duly authorized, organized and existing under the laws of the State of Connecticut and are authorized by section 22a-315 of the CGS and section 22a-315-14 of the Regulations of Connecticut State Agencies to enter into this Agreement; and

WHEREAS, section 22a-430b of the Connecticut General Statutes requires the Department to regulate stormwater discharges from construction activities under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities (“the Construction General Permit” or “CGP”), which has been or shall be issued on October 1, 2013. The Construction General Permit requires the implementation of erosion and sedimentation controls to control the discharge of sediment from construction and post-construction discharges; and

WHEREAS, Construction General Permits require the preparation and implementation of a Stormwater Pollution Control Plan (“Plan” or “SWPCP”) to prevent erosion and the discharge of sediment to the waters of the state; and

WHEREAS, pursuant to section 22a-315 of the CGS, soil and water conservation districts and boards were established to advise the Commissioner on matters of soil and water conservation and erosion and sedimentation control and to assist the Commissioner in implementing programs related to soil and water conservation and erosion and sediment control; and

WHEREAS, pursuant to section 22a-315 of the CGS, the soil and water conservation districts and boards may receive funds from private sources for services provided to promote soil and water conservation and to assist the Commissioner in the implementation of related programs; and

WHEREAS, section 22a-326 of the CGS declares the policy of the state “to strengthen and extend its erosion and sediment control activities and programs and to establish and implement, through the Council on Soil and Water Conservation, soil and water conservation districts, the municipalities and the Commissioner of Energy and Environmental Protection, a state-wide coordinated erosion and sediment control program which shall reduce the danger from storm water runoff, minimize nonpoint sediment pollution from land being developed and conserve and protect the land, water, air and other environmental resources of the state;” and

WHEREAS, the Districts have understanding and experience in reviewing erosion and sediment control plans because of their longstanding participation in the municipal approval process, as required by section 22a-329 of the CGS; and

WHEREAS, DEEP and the Districts are jointly dedicated to protecting the waters of the state by controlling the discharge of sediment and the pollution resulting from stormwater runoff.

NOW, THEREFORE, in consideration of the mutual covenants and conditions hereinafter stated, the Parties agree as follows:

I. RESPONSIBILITIES OF THE CONSERVATION DISTRICTS.

For locally approvable projects, as defined in the Construction General Permit, with five (5) or more acres of soil disturbance, the appropriate District (as specified in Appendix E of the Construction General Permit, appended hereto as Exhibit 3) shall review Stormwater Pollution Control Plans submitted to the District in accordance with Section 3(b)(10) of the CGP, shall determine whether each such SWPCP is consistent with the requirements of the CGP, and shall advise the Commissioner in writing of its determination regarding the SWPCP's consistency.

A. Components of the SWPCP Review by the Districts

1. Requirements for Conducting a Review:

(a) SWPCP review shall be conducted by a District representative having one or more of the following minimum qualifications: (i) a bachelor's degree in hydrology, engineering (agricultural, civil, environmental, or chemical), landscape architecture, geology, soil science, environmental science, natural resources management, or a related field and two years of professional and field experience, or (ii) the EnviroCert International, Inc. designation as a Certified Professional in Erosion and Sediment Control, or a Certified Professional in Storm Water Quality.

(b) All SWPCP reviews undertaken by a District shall be conducted in accordance with the guidelines and procedures established by DEEP in consultation with the Districts, as further described below, and shall include at least one inspection, and no more than 3 inspections, of the project site.

(c) The District shall begin a SWPCP review upon the receipt of the all of following: the developer's request for review, two copies of the proposed SWPCP, the payment of required fee in the amount specified in Exhibit 1 and the written permission of the developer to enter onto and inspect the project site. Once the District is in receipt of all the documents and the fee as delineated above, the developer's SWPCP shall be considered submitted to the District.

2. Determinations of Consistency by the District after Review of the SWPCP and Subsequent Procedures

(a) If the District determines the developer's SWPCP is:

(i) Consistent with the requirements of the Construction General Permit, the District shall issue an affirmative determination notice to both the developer or such developer's designee and to DEEP in order to advise them of the adequacy of the SWPCP. The District shall also provide a copy of the SWPCP to DEEP if requested by the Commissioner.

(ii) Not consistent with the requirements of the Construction General Permit, the District shall provide a written notice of such inconsistency to the developer or such developer's designee; such notice shall include a list of the SWPCP's deficiencies and any appropriate explanatory comments.

(b) If the developer's SWPCP is found to be inconsistent with the CGP, the developer may revise the SWPCP (the "Revised SWPCP") to address any deficiencies noted by the District and resubmit its Revised SWPCP to the District for review.

(c) If the District receives a Revised SWPCP in accordance with subsection (b) above, the District shall perform a review of the Revised SWPCP. If the Revised SWPCP is deemed:

(i) Consistent with the requirements of the Construction General Permit, the District shall (1) issue an affirmative determination notice to both the project developer or such project developer's designee and to DEEP to advise them of the adequacy of the SWPCP and (2) provide a copy of the SWPCP to the DEEP if requested by the Commissioner; or

(ii) Not consistent with the requirements of the CGP after this review, the District shall provide a written notice of such inconsistency to the developer or such developer's designee. This notice shall include a list of all remaining SWPCP deficiencies and any explanatory comments as appropriate.

(d) In the event the District determines after review of the Revised SWPCP in accordance with subsection (c), above, that the Revised SWPCP remains inconsistent with the requirements of the Construction General Permit, and the developer resubmits its Revised SWPCP *within 180 calendar days* of the District's original determination of inconsistency, the resubmitted Revised SWPCP shall be considered a Resubmission. As such, the resubmitted Revised SWPCP shall be reviewed by the District in accordance with the timeframes set forth in Section I.B., and other applicable sections of this document, and the fee shall be in accordance with Section II, below, and the Resubmission Fee in Exhibit 1.

(e) In the event the District determines after review of the Revised SWPCP in accordance with subsection (c), above, that the Revised SWPCP remains inconsistent with the requirements of the Construction General Permit, and the developer resubmits its Revised SWPCP *more than 180 calendar days after* the District's original determination of inconsistency, the resubmitted Revised SWPCP shall be considered a new submission. The newly submitted Revised SWPCP shall be reviewed by the District in accordance with the timeframes set forth in Section I.B., and other applicable sections of this document, and the fee shall be in accordance with Section II, below, and the SWPCP Review Fee in Exhibit 1.

(f) Revisions to a SWPCP subsequent to the District's prior approval of developer's SWPCP

(i) In the event the developer revises a SWPCP after the District has determined that the developer's SWPCP, prior to this revision, was consistent with the requirements of the Construction General Permit, and the developer submits the revised SWPCP to the District for review *within 180 calendar days* of the District's original determination of consistency, the SWPCP shall be considered a Post-Approval Resubmission. As a Post-Approval Resubmission, the SWPCP shall be reviewed by the District in accordance with the timeframes set forth in Section I.B., and other applicable sections of this document, and the fee shall be in accordance with Section II, below, and the Post-Approval Resubmission Fee in Exhibit 1.

(ii) In the event the developer revises a SWPCP after the District has determined that the developer's SWPCP, prior to this revision, was consistent with the requirements of the Construction General Permit, and the developer submits the revised SWPCP to the District for review *more than 180 calendar days after* the District's original determination of consistency, the SWPCP shall be considered a new submission. The newly submitted SWPCP shall be reviewed by the District in accordance with the timeframes set forth in Section I.B., and other applicable sections of this document, and the fee shall be in accordance with Section II, below, and the SWPCP Review Fee in Exhibit 1.

B. Plan Review Timeframes

1. The District shall review a new submission of a SWPCP submitted by a developer or such developer's designee and provide review comments within thirty (30) calendar days of the date of a complete submission as specified in Section I.A.1.(c).
2. If the District identifies deficiencies in the SWPCP, the District shall allow the developer or such developer's designee the opportunity to revise their SWPCP and resubmit it to the District within fifteen (15) calendar days after the date of mailing or delivery of the District's written comments to the developer or such developer's designee.
3. The District shall review any SWPCP revised in accordance with subsection I.B.2., above, and provide a written determination of the SWPCP's consistency or inconsistency within fifteen (15) calendar days after the submission of the revised SWPCP.
4. At the request of the District or the developer and with the agreement of both the District and the developer, the deadlines stated in subsections 1. – 3., above, may be extended. However, any such extensions shall be limited to no more than double the original amount of time allowed above for the relevant action.
5. Express review of a SWPCP may be requested by a developer. However, the Districts shall have complete discretion to accept or decline such request for an express review based on the District's circumstances, including, but not limited to: their existing workload, vacation schedules and staffing. If a District grants an express review, the timeframe shall be reduced to no more than one third of the timeframes noted in subsection 1. – 3., above, and the fee shall be in accordance with the Express Reviews fee in Exhibit 1.
6. In the event a District does not complete the review of the SWPCP within sixty (60) days (or within the time allowed under any authorized extension pursuant to subsection B.4, above, but in no circumstance later than 120 days) of the date the SWPCP was initially submitted to the District, and provided such delay is not the result of the developer's or such developer's designee's failure to address SWPCP deficiencies as noted in subsection B.2, above, the District shall:
 - (a) not later than three (3) days after the District's deadline, notify the DEEP that the developer shall be initiating the registration process for the Construction General Permit in accordance with section I.B of this Agreement, for completion of the SWPCP review, and;
 - (b) provide to the DEEP, upon request, the District's complete file, including supporting documentation the developer's SWPCP consistency determination, including, but not limited to, the SWPCP, any other documentation submitted to the District by or on behalf of a developer, and any analysis already performed by the District; and
 - (c) not later than seven (7) days after the District's deadline, in accordance with section I.B of this Agreement, for completion of the SWPCP review, transfer to the DEEP, up to a maximum of \$4,500, the fees that were originally submitted by the developer.

C. Inspections of the Project Site

1. Prior to the commencement of project construction and during the course of the SWPCP review process, the District shall conduct at least one inspection of the project site.
2. Once the construction of the project has begun, a District shall make at least one, but not more than three, inspection(s) of the project site to verify that the developer's SWPCP is being

implemented as approved by the District. A District shall report the results of the inspection(s) to the developer or such developer's designee and to DEEP in a manner prescribed by the Commissioner.

3. Upon notification from the developer or developer's designee, in accordance with Section 6(a)(1) of the CGP, that construction of the stormwater collection and management system is complete, the District shall conduct one inspection of the project site to verify that the post-construction stormwater management measures were completed in accordance with the approved SWPCP. The District shall report the results of this inspection to DEEP in a manner prescribed by the Commissioner.

D. Audits

The District agrees that all records pertaining to this Agreement shall be maintained for a period of not less than five (5) years. Such records shall be made available to the DEEP and to the state auditors upon request. For the purposes of this Agreement, "Records" are all working papers and such information and materials as may have been accumulated by the District in performing the Agreement, including, but not limited to, documents, data, analysis, plans, books, computations, drawings, specifications, notes, reports, records, estimates, summaries and correspondence, kept or stored in any form.

II. FEE SCHEDULE.

A. A District may assess fees for the services it renders in conjunction with its SWPCP reviews. Such fees shall be paid as follows:

1. All fees, except those described in subsection II.A.2, below, shall be submitted by the developer to the District with the developer's request for review. These fees are non refundable.
2. The fee for Post-Approval Resubmission, as designated in Exhibit 1, shall be submitted by the developer to the District upon completion of the District's review, prior to release of the determination notice, and is non refundable.

B. The Fee Schedule shall be reviewed annually by the Parties. The Fee Schedule may be adjusted as warranted, without a formal amendment to this Agreement, by mutual agreement between the Districts and the Commissioner.

III. RESPONSIBILITIES OF DEEP.

A. In accordance with the Construction General Permit requirements for SWPCP reviews by a third party, DEEP shall conduct outreach to inform the development community that a District may review SWPCPs for consistency with the requirements of the Construction General Permit. DEEP shall also inform the development community that a registration form for authorization under the Construction General Permit may only be submitted to DEEP if: the District, or other third party in accordance with Section 3(b)(11) of the CGP, determines that the SWPCP is consistent with the requirements of the CGP, or in the event the time schedule is exceeded for a District review as described in section I.B.6, above.

B. In order to institute standard SWPCP review guidelines and procedures, DEEP shall coordinate with the Districts to prepare a SWPCP checklist. The standard review guidelines and procedures established shall be consistent with the requirements of the Construction General Permit, the 2002 CT Guidelines for Soil Erosion and Sedimentation Control, and the 2004 Stormwater Quality Manual. The Commissioner shall have final approval of the review guidelines and procedures.

C. DEEP shall provide initial training regarding SWPCP requirements for District staff involved in SWPCP reviews. The frequency of subsequent training shall be determined by the Commissioner.

D. DEEP shall retain final decision making authority regarding the determination that a SWPCP is or is not consistent with the requirements of the Construction General Permit and shall oversee the permitting process for Construction General Permit coverage.

E. Once a SWPCP has been approved, DEEP shall oversee any subsequent compliance and/or enforcement matters related to a developer's adherence to the requirements of the Construction General Permit.

F. DEEP shall have the discretion to review any of the Districts' records pertaining to any aspect this Agreement.

IV. POINTS OF CONTACT.

The following shall be points of contact for this Agreement unless otherwise agreed to by all Parties, notwithstanding section VI. All notices, demands, requests, consents, approvals or other communications required or permitted to be given or which are given with respect to this Agreement (for the purpose of this section collectively called "Notices") shall be deemed to have been effected at such time as the notice is placed in the U.S. mail, first class and postage prepaid, return receipt requested, or, placed with a recognized, overnight express delivery service that provides for a return receipt. All such Notices shall be in writing and shall be addressed as follows:

A. DEEP

Director
Water Permitting & Enforcement Division
Bureau of Material Management & Compliance Assurance
Department of Energy & Environmental Protection
79 Elm St.
Hartford, CT 06106
Phone: 860-424-3018
Fax: 860-424-4074

B. Conservation District

Board Chairperson
Address & Phone of appropriate District:

Northwest Conservation District
1185 New Litchfield Street
Torrington, CT 06790
Ph: 860-626-7222
Fax: 860-626-7222
Email: ncd@conservect.org

Eastern Connecticut Conservation District
238 West Town Street
Norwich, CT 06360-2111
Ph: 860-887-4163 x 400 Fax: 860-887-4082
Email: kate.johnson.eccd@comcast.net

Connecticut River Coastal Conservation District, Inc.
deKoven House Community Center
27 Washington Street
Middletown, CT 06457
Ph: 860-346-3282 Fax 860-346-3284
Email: ctrivercoastal@conservect.org

Southwest Conservation District
51 Mill Pond Road
Hamden, CT 06514
Ph: 203-287-8179 Fax: 203-288-5077
Email: swcd43@sbcglobal.net

North Central Conservation District
24 Hyde Avenue
Vernon, CT 06066
Ph: 860-875-3881 Fax: 860-870-8973
Email: tollandc@snet.net

V. EXECUTIVE ORDERS AND ANTI-DISCRIMINATION. The Districts shall comply with the additional terms and conditions hereto attached as Exhibit 2.

VI. AMENDMENTS. Either the DEEP or the Districts may recommend revisions to this Agreement as circumstances may warrant; however, any revisions must be upon mutual agreement of DEEP and all five Conservation Districts. Unless otherwise stated in this Agreement, formal written amendment is required for changes to any of the terms and conditions specifically stated in the Agreement, including Exhibit 2 of the Agreement, any prior amendments to the Agreement, and any other Agreement revisions determined material by the Department.

VII. SEVERABILITY. The provisions of this Agreement are severable. If any part of it is found unenforceable, all other provisions shall remain fully valid and enforceable, unless the unenforceable provision is an essential element of the bargain.

VIII. SOVEREIGN IMMUNITY. The Parties acknowledge and agree that nothing in the Agreement shall be construed as a modification, compromise or waiver by the State of any rights or defenses of any immunities provided by federal law or the laws of the State of Connecticut to the State or any of the State's, which they may have had, now have or shall have with respect to all matters arising out of the Agreement. To the extent that this section conflicts with any other section, this section shall govern.

IX. FORUM AND CHOICE OF LAW. The Agreement shall be deemed to have been made in the City of Hartford, State of Connecticut. Both Parties agree that it is fair and reasonable for the validity and construction of the Agreement to be, and it shall be, governed by the laws and court decisions of the State of Connecticut, without giving effect to its principles of conflicts of laws. To the extent that any immunities provided by federal law or the laws of the State of Connecticut do not bar an action against the State or the Districts, and to the extent that these courts are courts of competent jurisdiction, for the purpose of venue, the complaint shall be made returnable to the Judicial District of Hartford only or shall be brought in the United States District Court for the District of Connecticut only, and shall not be transferred to any other court, provided, however, that nothing here constitutes a waiver or compromise of the sovereign immunity of the State of Connecticut. The Districts waive any objection which they may now have or shall have to the laying of venue of any Claims in any forum and further irrevocably submits to such jurisdiction in any suit, action or proceeding.

X. TERMINATION. Notwithstanding any provisions in this Agreement, DEEP, through a duly

authorized employee, may terminate the Agreement whenever the Agency makes a written determination that such Termination is in the best interests of the State. The Agency shall notify the Districts in writing sent by certified mail, return receipt requested, which notice shall specify the effective date of Termination and the extent to which the Districts must complete its Performance under the Agreement prior to such date; or (b) The Districts may terminate the Agreement for good cause. The Districts shall notify DEEP by written notice at least one hundred eighty (180) days prior to the effective date of termination. In order for the Districts to terminate this Agreement, (1) there must be a consensus between all five Conservation Districts that each District shall be terminating this Agreement with the DEEP; (2) such proof of consensus shall be submitted to the DEEP in the form of a letter signed by the duly authorized agent for each District by certified mail, return receipt requested, at least one hundred eighty (180) days prior to the Districts' intention to cancel or terminate. Upon the Termination of this Agreement by either Party, the Districts shall deliver to the Agency copies of all Records no later than thirty (30) days after the Termination of the Agreement, or fifteen (15) days after the Non-terminating Party receives a written request from the Terminating Party for the Records. The Districts shall deliver those Records that exist in electronic, magnetic or other intangible form in a non-proprietary format, such as, but not limited to, PDF, ASCII or .TXT. Upon receipt of a written notice of Termination from the Agency, the Districts shall cease operations as the Agency directs in the notice, and take all actions that are necessary or appropriate, or that the Agency may reasonably direct, for the protection, and preservation of records. Except for any work which the Agency directs the Districts to Perform in the notice prior to the effective date of Termination, and except as otherwise provided in the notice, the Districts shall terminate or conclude all existing subcontracts and purchase orders and shall not enter into any further subcontracts, purchase orders or commitments. Upon Termination of the Agreement, all rights and obligations shall be null and void, so that no Party shall have any further rights or obligations to any other Party, except with respect to the sections which survive Termination. All representations, warranties, agreements and rights of the Parties under the Agreement shall survive such Termination to the extent not otherwise limited in the Agreement and without each one of them having to be specifically mentioned in the Agreement. Termination of the Agreement pursuant to this section shall not be deemed to be a breach of Agreement by the Agency.

XI. DURATION OF AGREEMENT. This Agreement shall be effective on July 1, 2013 or on the date of the last signature below, whichever is later, and shall continue in force unless canceled or terminated by either party in accordance with paragraph X above.

XII. VOID AB INITIO. Notwithstanding paragraphs X and XI, the Agreement shall be void *ab initio* if the Construction General Permit is reissued, revoked or modified to eliminate the need for the Districts to review the SWPCP pursuant to such general permit's terms and conditions or if the Construction General Permit expires and is not reissued.

XIII. INTERPRETATION. The Agreement contains numerous references to statutes and regulations. For purposes of interpretation, conflict resolution and otherwise, the content of those statutes and regulations shall govern over the content of the reference in the Agreement to those statutes and regulations.

XIV. ENTIRETY OF AGREEMENT. This Agreement is the entire agreement between the Parties with respect to its subject matter, and supersedes all prior agreements, proposals, offers, counteroffers and understandings of the Parties, whether written or oral. The Agreement has been entered into after full investigation, neither Party relying upon any statement or representation by the other unless such statement or representation is specifically embodied in the Agreement.

XV. PROTECTION OF STATE CONFIDENTIAL INFORMATION. (*mandatory language required for all PSAs effective 12/1/11*)

A. The Districts or District Parties, at their own expense, have a duty to and shall protect from a

Confidential Information Breach any and all Confidential Information which they come to possess or control, wherever and however stored or maintained, in a commercially reasonable manner in accordance with current industry standards.

B. Each District or District Party shall develop, implement and maintain a comprehensive data-security program for the protection of Confidential Information. The safeguards contained in such program shall be consistent with and comply with the safeguards for protection of Confidential Information, and information of a similar character, as set forth in all applicable federal and state law and written policy of the Department or State concerning the confidentiality of Confidential Information. Such data-security program shall include, but not be limited to, the following:

1. A security policy for employees related to the storage, access and transportation of data containing Confidential Information;
2. Reasonable restrictions on access to records containing Confidential Information, including access to any locked storage where such records are kept;
3. A process for reviewing policies and security measures at least annually;
4. Creating secure access controls to Confidential Information, including but not limited to passwords; and
5. Encrypting of Confidential Information that is stored on laptops, portable devices or being transmitted electronically.

C. The District and District Parties shall notify the Department and the Connecticut Office of the Attorney General as soon as practical, but no later than twenty-four (24) hours, after they become aware of or suspect that any Confidential Information which Parties have come to possess or control has been subject to a Confidential Information Breach. If a Confidential Information Breach has occurred, the District shall, within three (3) business days after the notification, present a credit monitoring and protection plan to the Commissioner of Administrative Services, the Department and the Connecticut Office of the Attorney General, for review and approval. Such credit monitoring or protection plan shall be made available by the District at its own cost and expense to all individuals affected by the Confidential Information Breach. Such credit monitoring or protection plan shall include, but is not limited to, reimbursement for the cost of placing and lifting one (1) security freeze per credit file pursuant to Connecticut General Statutes §36a-701a. Such credit monitoring or protection plans shall be approved by the State in accordance with this Section and shall cover a length of time commensurate with the circumstances of the Confidential Information Breach. The District's costs and expenses for the credit monitoring and protection plan shall not be recoverable from the Department, any State of Connecticut entity or any affected individuals.

D. The District shall incorporate the requirements of this Section in all subAgreements requiring each District Party to safeguard Confidential Information in the same manner as provided for in this Section.

E. Nothing in this Section shall supersede in any manner the District's and/ or the District Parties' obligations pursuant to HIPAA or the provisions of this Agreement concerning the obligations of the District as a Business Associate of the Department.

XVI. AMERICANS WITH DISABILITIES ACT (*Mandatory*). The Districts shall be and remain in compliance with the Americans with Disabilities Act of 1990 ("Act"), to the extent applicable, during the term of the Agreement. The DEEP may cancel the Agreement if the District and District Parties fail to comply with the Act.

XVII. ADA PUBLICATION STATEMENT. The following statement shall be incorporated into all **publications** prepared under the terms of this Agreement:

“The Department of Energy and Environmental Protection is an affirmative action/equal opportunity employer and service provider. In conformance with the Americans with Disabilities Act, DEEP makes every effort to provide equally effective services for persons with disabilities. Individuals with disabilities who need this information in an alternative format, to allow them to benefit and/or participate in the agency’s programs and services, should call DEEP’s Human Resources Office at (860) 424-3006, send a fax to (860) 424-3896, or email DEEP.MedRecs@ct.gov. Persons who are hearing impaired should call the State of Connecticut relay number 711.”

When advertising any **public meetings** conducted under the terms of this Agreement, the above publications language should be used as well as the following statement:

“Requests for accommodations must be made at least two weeks prior to the program date.”

All **videos** produced under the terms of this Agreement must be made available with closed captioning.

XVIII. PUBLICATION OF MATERIALS. The District must obtain written approval from the State of Connecticut prior to distribution or publication of any printed material prepared under the terms of this Agreement. Unless specifically authorized in writing by the State, on a case by case basis, the District shall have no right to use, and shall not use, the name of the State of Connecticut, its officials, agencies, or employees or the seal of the State of Connecticut or its agencies: (1) in any advertising, publicity, promotion; or (2) to express or to imply any endorsement of District’s products or services; or (3) to use the name of the State of Connecticut, its officials agencies, or employees or the seal of the State of Connecticut or its agencies in any other manner (whether or not similar to uses prohibited by (1) and (2) above), except only to manufacture and deliver in accordance with this Agreement such items as are hereby contracted for by the State. In no event may the Districts use the State Seal in any way without the express written consent of the Secretary of State.

XIX. CHANGES IN PRINCIPAL PROJECT STAFF. Any changes in the principal project staff must be requested in writing and approved in writing by the Commissioner at the Commissioner’s sole discretion. In the event of any unapproved change in principal project staff, the Commissioner may, in the Commissioner’s sole discretion, terminate this Agreement.

XX. FURTHER ASSURANCES. The Parties shall provide such information, execute and deliver any instruments and documents and take such other actions as may be necessary or reasonably requested by the other Party which are not inconsistent with the provisions of this Agreement and which do not involve the vesting of rights or assumption of obligations other than those provided for in the Agreement, in order to give full effect to the Agreement and to carry out the intent of the Agreement.

XXI. ASSIGNMENT. The Districts shall not assign any of their rights or obligations under the Agreement, voluntarily or otherwise, in any manner without the prior written consent of the Agency. The Agency may void any purported assignment in violation of this section and declare the District in breach of this Agreement. Any termination by the Agency for a breach is without prejudice to the Agency’s or the State’s rights or possible Claims.

XXII. EXHIBITS. All exhibits referred to in, and attached to, this Agreement are incorporated in this Agreement by such reference and shall be deemed to be a part of it as if they had been fully set forth in it.

XXIII. FORCE MAJEUR. Events that materially affect the cost of the Goods or Services or the time schedule within which to Perform and are outside the control of the party asserting that such an event has

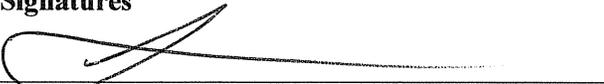
occurred, including, but not limited to, labor troubles unrelated to District(s), failure of or inadequate permanent power, unavoidable casualties, fire not caused by a District, extraordinary weather conditions, disasters, riots, acts of God, insurrection or war.

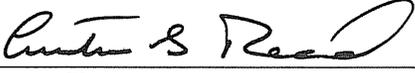
XXIV. INDEMNIFICATION. The Districts shall indemnify, defend and hold harmless the State and its officers, representatives, agents, servants, employees, successors and assigns from and against any and all (1) Claims arising, directly or indirectly, in connection with the Agreement, including the acts of commission or omission (collectively, the "Acts") of the District or District Parties; and (2) liabilities, damages, losses, costs and expenses, including but not limited to, attorneys' and other professionals' fees, arising, directly or indirectly, in connection with Claims, Acts or the Agreement. The Districts obligations under this section to indemnify, defend and hold harmless against Claims includes Claims concerning confidentiality of any part of or all of the Districts' Records, any intellectual property rights, other proprietary rights of any person or entity, copyrighted or uncopyrighted compositions, secret processes, patented or unpatented inventions, articles or appliances furnished or used in the Performance. The Districts shall not be responsible for indemnifying or holding the State harmless from any liability arising due to the negligence of the State or any other person or entity acting under the direct control or supervision of the State. The Districts shall reimburse the State for any and all damages to the real or personal property of the State caused by the Acts of the Districts or any District Parties. The State shall give the Districts reasonable notice of any such Claims. The Districts shall carry and maintain at all times during the term of the Agreement, and during the time that any provisions survive the term of the Agreement, sufficient general liability insurance to satisfy its obligations under this Agreement. The Districts shall name the State as an additional insured on the policy and shall provide a copy of the policy to the Agency prior to the effective date of the Agreement. The Districts shall not begin Performance until the delivery of the policy to the Agency. The Agency shall be entitled to recover under the insurance policy even if a body of competent jurisdiction determines that the Agency or the State is contributorily negligent. This section shall survive the Termination of the Agreement and shall not be limited by reason of any insurance coverage.

XXV. DISTRICT PARTIES. A District's members, directors, officers, shareholders, partners, managers, principal officers, representatives, agents, servants, consultants, employees or any one of them or any other person or entity with whom the District is in privity of oral or written contract and the District intends for such other person or entity to Perform under the Agreement in any capacity

XXVI. CAMPAIGN CONTRIBUTION RESTRICTION. For all State contracts as defined in P.A. 07-1 having a value in a calendar year of \$50,000 or more or a combination or series of such agreements or contracts having a value of \$100,000 or more, the authorized signatory to this Agreement expressly acknowledges receipt of the State Elections Enforcement Commission's notice advising state contractors of state campaign contribution and solicitation prohibitions, and will inform its principals of the contents of the notice. See SEEC Form 11.

Authorizing Signatures

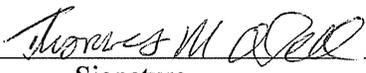
For DEEP:  8/21/13
Commissioner Date

For Northwest Conservation District:  6/5/13
Signature Date

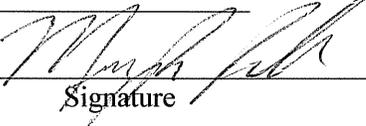
Chairman
Title

For Eastern Connecticut Conservation District:  6/12/13
Signature Date

Chair
Title

For Connecticut River Coastal Conservation District, Inc.:  5/22/13
Signature Date

Chair
Title

For Southwest Conservation District:  5/13/13
Signature Date

Vice-chairperson SWCD
Title

For North Central Conservation District:  5/23/13
Signature Date

Chairman
Title

EXHIBIT 1

**Connecticut Conservation District
Stormwater Pollution Control Plan Review Fee Schedule**

Single Family Residential Developments Disturbing 5 or more Acres

Number of Lots	Standard Fee	Number of Lots	Standard Fee
1	\$1,500	26	\$5,625
2	\$1,665	27	\$5,790
3	\$1,830	28	\$5,955
4	\$1,995	29	\$6,120
5	\$2,160	30	\$6,285
6	\$2,325	31	\$6,450
7	\$2,490	32	\$6,615
8	\$2,655	33	\$6,780
9	\$2,820	34	\$6,945
10	\$2,985	35	\$7,110
11	\$3,150	36	\$7,275
12	\$3,315	37	\$7,440
13	\$3,480	38	\$7,605
14	\$3,645	39	\$7,770
15	\$3,810	40	\$7,935
16	\$3,975	41	\$8,100
17	\$4,140	42	\$8,265
18	\$4,305	43	\$8,430
19	\$4,470	44	\$8,595
20	\$4,635	45	\$8,760
21	\$4,800	46	\$8,925
22	\$4,965	47	\$9,090
23	\$5,130	48	\$9,255
24	\$5,295	49	\$9,420
25	\$5,460	50	\$9,585

Over 50 lots:

\$9,585 + \$20 x number of lots over 50

SW PCP Review: Standard Fee (as shown above)

Resubmission: Standard Fee minus 50%

Post-Approval Resubmission: \$85 per hour, up to a maximum of the Standard Fee minus 50%

Express Reviews: The specified fee for an SW PCP Review, a Resubmission, or a Post-Approval Resubmission; plus 50% of the applicable fee and/or limit

Policies:

1. Payment due upon submission of SW PCP, with the exception of Post-Approval Resubmissions.
2. Payment for Post-Approval Resubmission review is due upon completion of review.
3. Written permission to enter onto and inspect the site: Due upon submission of SW PCP.

EXHIBIT 1

**Connecticut Conservation District
Stormwater Pollution Control Plan Review Fee Schedule**

Commercial and Multi Family Developments

Number of Disturbed Standard Acres Fee		Number of Disturbed Standard Acres Fee	
5	\$2,200	28	\$5,995
6	\$2,365	29	\$6,160
7	\$2,530	30	\$6,325
8	\$2,695	31	\$6,490
9	\$2,860	32	\$6,655
10	\$3,025	33	\$6,820
11	\$3,190	34	\$6,985
12	\$3,355	35	\$7,150
13	\$3,520	36	\$7,315
14	\$3,685	37	\$7,480
15	\$3,850	38	\$7,645
16	\$4,015	39	\$7,810
17	\$4,180	40	\$7,975
18	\$4,345	41	\$8,140
19	\$4,510	42	\$8,305
20	\$4,675	43	\$8,470
21	\$4,840	44	\$8,635
22	\$5,005	45	\$8,800
23	\$5,170	46	\$8,965
24	\$5,335	47	\$9,130
25	\$5,500	48	\$9,295
26	\$5,665	49	\$9,460
27	\$5,830	50	\$9,625

Over 50 acres:

\$9,625 + \$25 x number of disturbed acres over 50

SW PCP Review: Standard Fee (as shown above)

Resubmission: Standard Fee minus 50%

Post-Approval Resubmission: \$85 per hour, up to a maximum of the Standard Fee minus 50%

Express Reviews: The specified fee for an SW PCP Review, a Resubmission, or a Post-Approval Resubmission; plus 50% of the applicable fee and/or limit

Policies:

1. Payment due upon submission of SW PCP, with the exception of Post-Approval Resubmissions.
2. Payment for Post-Approval Resubmission review is due upon completion of review.
3. Written permission to enter onto and inspect the site: Due upon submission of SW PCP.

EXHIBIT 2

EXECUTIVE ORDERS

The Agreement is subject to the provisions of Executive Order No. Three of Governor Thomas J. Meskill, promulgated June 16, 1971, concerning labor employment practices, Executive Order No. Seventeen of Governor Thomas J. Meskill, promulgated February 15, 1973, concerning the listing of employment openings and Executive Order No. Sixteen of Governor John G. Rowland promulgated August 4, 1999, concerning violence in the workplace, all of which are incorporated into and are made a part of the Contract as if they had been fully set forth in it. At the Districts' request, the Client Agency shall provide a copy of these orders to the Districts. The Agreement may also be subject to Executive Order No. 7C of Governor M. Jodi Rell, promulgated July 13, 2006, concerning contracting reforms and Executive Order No. 14 of Governor M. Jodi Rell, promulgated April 17, 2006, concerning procurement of cleaning products and services, in accordance with their respective terms and conditions.

NONDISCRIMINATION

(a) For purposes of this Section, the following terms are defined as follows:

- i. "Commission" means the Commission on Human Rights and Opportunities;
- ii. "Contract" and "contract" include any extension or modification of this Agreement or contract;
- iii. "Districts" and "districts" include the Districts and any successors or assigns of the Districts or districts;
- iv. "Gender identity or expression" means a person's gender-related identity, appearance or behavior, whether or not that gender-related identity, appearance or behavior is different from that traditionally associated with the person's physiology or assigned sex at birth, which gender-related identity can be shown by providing evidence including, but not limited to, medical history, care or treatment of the gender-related identity, consistent and uniform assertion of the gender-related identity or any other evidence that the gender-related identity is sincerely held, part of a person's core identity or not being asserted for an improper purpose.
- v. "good faith" means that degree of diligence which a reasonable person would exercise in the performance of legal duties and obligations;
- vi. "good faith efforts" shall include, but not be limited to, those reasonable initial efforts necessary to comply with statutory or regulatory requirements and additional or substituted efforts when it is determined that such initial efforts will not be sufficient to comply with such requirements;
- vii. "marital status" means being single, married as recognized by the State of Connecticut, widowed, separated or divorced;
- viii. "mental disability" means one or more mental disorders, as defined in the most recent edition of the American Psychiatric Association's "Diagnostic and Statistical Manual of Mental Disorders", or a record of or regarding a person as having one or more such disorders;
- ix. "minority business enterprise" means any small contractor, District or supplier of materials fifty-one percent or more of the capital stock, if any, or assets of which is owned by a person or persons: (1) who are active in the daily affairs of the enterprise, (2) who have the power to direct the management and policies of the enterprise, and (3) who are members of a minority, as such term is defined in subsection (a) of Connecticut General Statutes § 32-9n; and
- x. "public works contract" means any agreement between any individual, firm or corporation and the State or any political subdivision of the State other than a municipality for construction, rehabilitation, conversion, extension, demolition or repair of a public building, highway or other changes or improvements in real property, or which is financed in whole or in part by the State, including, but not limited to, matching expenditures, grants, loans, insurance or guarantees.

For purposes of this Section, the terms "Contract" and "contract" do not include a contract where each District is (1) a political subdivision of the state, including, but not limited to, a municipality, (2) a quasi-public agency, as defined in Conn. Gen. Stat. Section 1-120, (3) any other state, including but not limited to any federally recognized Indian tribal governments, as defined in Conn. Gen. Stat. Section 1-267, (4) the federal government, (5) a foreign government, or (6) an agency of a subdivision, agency, state or government described in the immediately preceding enumerated items (1), (2), (3), (4) or (5).

(b) (1) The Districts agree and warrant that in the performance of the Agreement such Districts will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, religious creed, age, marital status, national origin, ancestry, sex, gender identity or expression, mental retardation, mental disability or physical disability, including, but not limited to, blindness, unless it is shown by such Districts that such disability prevents performance of the work involved, in any manner prohibited by the laws of the United States or of the State of Connecticut; and the Districts further agree to take affirmative action to insure that applicants with job-related qualifications are employed and that employees are treated when employed without regard to their race, color, religious creed, age, marital status, national origin, ancestry, sex, gender identity or expression, mental retardation, mental disability or physical disability, including, but not limited to, blindness, unless it is shown by the Districts that such disability prevents performance of the work involved; (2) the Districts agree, in all solicitations or advertisements for employees placed by or on behalf of the Districts, to state that it is

an "affirmative action-equal opportunity employer" in accordance with regulations adopted by the Commission; (3) the Districts agree to provide each labor union or representative of workers with which the Districts have a collective bargaining Agreement or other contract or understanding and each vendor with which the Districts have a contract or understanding, a notice to be provided by the Commission, advising the labor union or workers' representative of the Districts' commitments under this section and to post copies of the notice in conspicuous places available to employees and applicants for employment; (4) the Districts agree to comply with each provision of this Section and Connecticut General Statutes §§ 46a-68e and 46a-68f and with each regulation or relevant order issued by said Commission pursuant to Connecticut General Statutes §§ 46a-56, 46a-68e and 46a-68f; and (5) the Districts agree to provide the Commission on Human Rights and Opportunities with such information requested by the Commission, and permit access to pertinent books, records and accounts, concerning the employment practices and procedures of the Districts as relate to the provisions of this Section and Connecticut General Statutes § 46a-56. If the contract is a public works contract, the Districts agree and warrant that they will make good faith efforts to employ minority business enterprises as Districts and suppliers of materials on such public works projects.

(c) Determination of the Districts' good faith efforts shall include, but shall not be limited to, the following factors: The Districts' employment and subcontracting policies, patterns and practices; affirmative advertising, recruitment and training; technical assistance activities and such other reasonable activities or efforts as the Commission may prescribe that are designed to ensure the participation of minority business enterprises in public works projects.

(d) The Districts shall develop and maintain adequate documentation, in a manner prescribed by the Commission, of its good faith efforts.

(e) The Districts shall include the provisions of subsection (b) of this Section in every subcontract or purchase order entered into in order to fulfill any obligation of a contract with the State and such provisions shall be binding on the Districts, vendor or manufacturer unless exempted by regulations or orders of the Commission. The Districts shall take such action with respect to any such subcontract or purchase order as the Commission may direct as a means of enforcing such provisions including sanctions for noncompliance in accordance with Connecticut General Statutes §46a-56; provided if such Districts become involved in, or is threatened with, litigation with the Districts or vendor as a result of such direction by the Commission, the Districts may request the State of Connecticut to enter into any such litigation or negotiation prior thereto to protect the interests of the State and the State may so enter.

(f) The Districts agree to comply with the regulations referred to in this Section as they exist on the date of this Agreement and as they may be adopted or amended from time to time during the term of this Agreement and any amendments thereto.

(g) (1) The Districts agree and warrant that in the performance of the Agreement such Districts will not discriminate or permit discrimination against any person or group of persons on the grounds of sexual orientation, in any manner prohibited by the laws of the United States or the State of Connecticut, and that employees are treated when employed without regard to their sexual orientation; (2) the Districts agree to provide each labor union or representative of workers with which such Districts have a collective bargaining Agreement or other contract or understanding and each vendor with which such Districts have a contract or understanding, a notice to be provided by the Commission on Human Rights and Opportunities advising the labor union or workers' representative of the Districts' commitments under this section, and to post copies of the notice in conspicuous places available to employees and applicants for employment; (3) the Districts agree to comply with each provision of this section and with each regulation or relevant order issued by said Commission pursuant to Connecticut General Statutes § 46a-56; and (4) the Districts agree to provide the Commission on Human Rights and Opportunities with such information requested by the Commission, and permit access to pertinent books, records and accounts, concerning the employment practices and procedures of the Districts which relate to the provisions of this Section and Connecticut General Statutes § 46a-56.

(h) The Districts shall include the provisions of the foregoing paragraph in every subcontract or purchase order entered into in order to fulfill any obligation of a contract with the State and such provisions shall be binding on the Districts, vendor or manufacturer unless exempted by regulations or orders of the Commission. The Districts shall take such action with respect to any such subcontract or purchase order as the Commission may direct as a means of enforcing such provisions including sanctions for noncompliance in accordance with Connecticut General Statutes § 46a-56; provided, if such Districts become involved in, or is threatened with, litigation with the Districts or vendor as a result of such direction by the Commission, the Districts may request the State of Connecticut to enter into any such litigation or negotiation prior thereto to the Connecticut Department of Energy and Environmental Protection (DEEP)."

Note: Place on official Letterhead. Need to document registered name with CT Secretary of State C.O.N.C.O.R.D.

CERTIFICATION

I, **XXXXXXXXXXXXXXXXXX**, Chair of the **XXXXXXXXXXXXXXXXXX** an entity lawfully organized and existing under the laws of Connecticut, do hereby certify that the following is a true and correct copy of a resolution adopted on the **>>>>**day of **>>>>**, 2011, by the governing body of the **XXXXXX** in accordance with all of its documents of governance and management and the laws of Connecticut and further certify that such resolution has not been modified, rescinded or revoked, and is a present in full force and effect.

RESOLVED: That the **XXXXXXXXXXXXXXXXXX** hereby adopts as its policy to support the nondiscrimination agreements and warranties required under Conn. Gen. Stat. § 4a-60(a)(1) and § 4a-60a(a)(1), as amended in State of Connecticut Public Act 07-245 and sections 9(a)(1) and 10(a)(1) of Public Act 07-142, as those statutes may be amended from time to time.

IN WITNESS WHEREOF, the undersigned has executed this certificate **this >>>>day of >>>>**, **2013**.

Signature

Date

CONSERVATION DISTRICT PLAN REVIEW CERTIFICATION

Registrations submitted to DEEP for which a Conservation District has performed the Plan review pursuant to Section 3(b)(10) of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities shall include the following certification:

"I hereby certify that I am an employee of the [INSERT NAME OF DISTRICT] Conservation District and that I meet the qualifications to review Stormwater Pollution Control Plans as specified in the Memorandum of Agreement between the Connecticut Department of Energy & Environmental Protection and the Connecticut Conservation Districts. I am making this certification in connection with a registration under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I certify, based on my review of the requirements of such general permit and on the standard of care for such projects, that the Plan is in compliance with the requirements of the general permit. I understand that knowingly making any false statement in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law."

Registrations submitted to DEEP for which the District review was begun but ***could not be completed*** within the time limits specified in the Memorandum of Agreement shall include the following statement:

"I hereby certify that I am an employee of the [INSERT NAME OF DISTRICT] Conservation District and that I meet the qualifications to review Stormwater Pollution Control Plans as specified in the Memorandum of Agreement between the Connecticut Department of Energy & Environmental Protection and the Connecticut Conservation Districts. I am making this statement in connection with a registration under the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, submitted to the commissioner by [INSERT NAME OF REGISTRANT] for an activity located at [INSERT ADDRESS OF PROJECT OR ACTIVITY]. I hereby state that the review of the Stormwater Pollution Control Plan (Plan) for such registration was not completed within the time frames specified in the Memorandum of Agreement. Consequently, I cannot certify that the Plan is in compliance with the requirements of the general permit."



General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities

APPENDIX G

Historic Preservation Review

Pursuant to Chapter 184a, Section 10-387 of the Connecticut General Statutes, the Department of Energy & Environmental Protection (DEEP) shall review, in consultation with the Connecticut Commission on Culture and Tourism, its policies and practices for consistency with the preservation and study of CT's archaeological and historical sites. Pursuant to this requirement, DEEP has outlined the following process for assessing the potential for and the presence of historic and/or archaeological resources at a proposed development site. DEEP advises a review for the resources identified below *be initiated up to one year* prior to registration for this permit (*or prior to property purchase if possible*) and in conjunction with the local project approval process. However, a review conducted for an Army Corps of Engineers Section 404 wetland permit would meet this requirement.

Step 1: Determine if the proposed site is within an area of significance by consulting the following resources:

1. CT Register of Historic Places found at the link below:
<http://www.nationalregisterofhistoricplaces.com/CT/state.html#pickem>
2. The municipality of the proposed development site for its designations of local historic districts, including but not limited to, local Historic District and/or Property Statutes.

Step 2: Assess site characteristics to determine the presence of a potential archaeological site, sacred site, and/ or sacred object as described below:

Definitions:

1. "Archaeological site" means a location where there exists material evidence that is not less than fifty years old of the past life and culture of human beings in the state.
2. "Sacred site" or "sacred land" means any space, including an archaeological site, of ritual or traditional significance in the culture and religion of Native Americans that is listed or eligible for listing on the National Register of Historic Places (16 USC 470a, as amended) or the state register of historic places defined in section 10-410, including, but not limited to, marked and unmarked human burials, burial areas and cemeteries, monumental geological or natural features with sacred meaning or a meaning central to a group's oral traditions; sites of ceremonial structures, including sweat lodges; rock art sites, and sites of great historical significance to a tribe native to this state.
3. "Sacred object" means any archaeological artifact or other object associated with a sacred site.

Site Prescreening Criteria:

1. Does the proposed development site include lands within 300 feet of surface water features, such as streams, brooks, lakes, or marshes?

If "yes", proceed to Criterion 2. If the answer to Criterion 1 is "no", then there is a low potential for prehistoric period archaeological resources - Proceed to Criterion 3.

2. Does the area of anticipated construction or ground disturbance include soils classified by the Natural Resource Conservation Service as "Sandy Loam/ Loamy sand" or "Sandy Gravel Loam" not including "Fine Sandy Loam/ Loamy sand" with slopes less than or equal to 15%? (Soil mapping information is available for free from:
<http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>)

If the answer to Criterion 2 is no, then there is a low potential for prehistoric period archaeological resources - Proceed to Criterion 3. If yes, the project site may contain significant prehistoric period archaeological resources

– assess all other criteria and proceed to Step 3.

3. Are there buildings or structures over 150 years in age with the project site?

If no, proceed to Criterion 4. If yes, the project site may contain significant historic period archaeological resources – assess all other criteria and proceed to Step 3.

4. Are there buildings or structures shown within or immediately adjacent to the project site on the 1850's Connecticut County maps?

Historic County maps are here:

Fairfield - <http://www.flickr.com/photos/uconnlibrariesmagic/3387034755/>

Hartford - <http://www.flickr.com/photos/uconnlibrariesmagic/3386955421/>

Litchfield - <http://www.flickr.com/photos/uconnlibrariesmagic/3387765290/>

Middlesex - <http://www.flickr.com/photos/uconnlibrariesmagic/3386956185/>

New Haven - <http://www.flickr.com/photos/uconnlibrariesmagic/3386956345/>

New London - <http://www.flickr.com/photos/uconnlibrariesmagic/3387766080/>

Tolland - <http://www.flickr.com/photos/uconnlibrariesmagic/3386957013/>

Windham - <http://www.flickr.com/photos/uconnlibrariesmagic/3387766950/>

To look for buildings and structures click on the appropriate county map link. From the “Actions” drop-down menu choose “View all sizes”. On the “Photo/All sizes” page, choose “Original” to view the county map at an enlarged scale.

If no, there is a low potential for significant historic period archaeological resources. If yes, the site may contain significant historic period archaeological resources- assess all other criteria and proceed to Step 3.

Step 3: If you answered yes to Criterion 2, 3, or 4, please contact Daniel Forrest (860-256-2761 or daniel.forrest@ct.gov) or the current environmental review coordinator at the State Historic Preservation Office, Department of Economic and Community Development for additional guidance.

Step 4: Report in the Registration Form for the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities that a review has been conducted and the results of the review (i.e. the proposed site does not have the potential for historic/ archaeological resources, or that such potential exists and is being or has been reviewed by the Connecticut Commission on Culture and Tourism).

Please note that DEEP will refer all proposed sites with a historic/ archaeological resource potential (as identified in Steps 1 & 2 above) to the State Historic Preservation Office at the Department of Economic and Community Development..

Appendix H Wild & Scenic Rivers Guidance

Overview: Wild and Scenic Rivers Act

The Wild and Scenic Rivers Act (WSRA) charges administration of rivers in the National Wild and Scenic Rivers System (National System) to four federal land management agencies (Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, and U.S. Forest Service). However, to protect and enhance river values as directed in the WSRA, it is essential to use the authorities of a number of other federal agencies in administering the water column, river bed/bank, and upland river corridor.

Congress declared a policy to protect selected rivers in the nation through the WSRA. The river-administering agencies are to protect the river's identified values, free-flowing condition, and associated water quality. Specifically, each component is to be "administered in such manner as to protect and enhance the (outstandingly remarkable) values (**ORVs**) which caused it to be included in said system. . . ."

The WSRA also directs other federal agencies to protect river values. It explicitly recognizes the Federal Energy Regulatory Commission, Environmental Protection Agency, Army Corps of Engineers and any other federal department or agency with lands on or adjacent to designated (or congressionally authorized study) rivers or that permit or assist in the construction of water resources projects.

Pertinent Sections of the Wild and Scenic Rivers Act

The full Wild and Scenic Rivers Act can be found at the website: www.rivers.gov

Pertinent Sections related to the mandate to protect river values through coordinated federal actions is found in several sections of the WSRA:

Section 1(b)	Section 7(a)	Section 10(a)
Section 12(a)	Section 12(c)	

Designated Rivers under the Wild and Scenic Rivers Act and Contact Information

The full listing of designated rivers can be found on the website www.rivers.gov

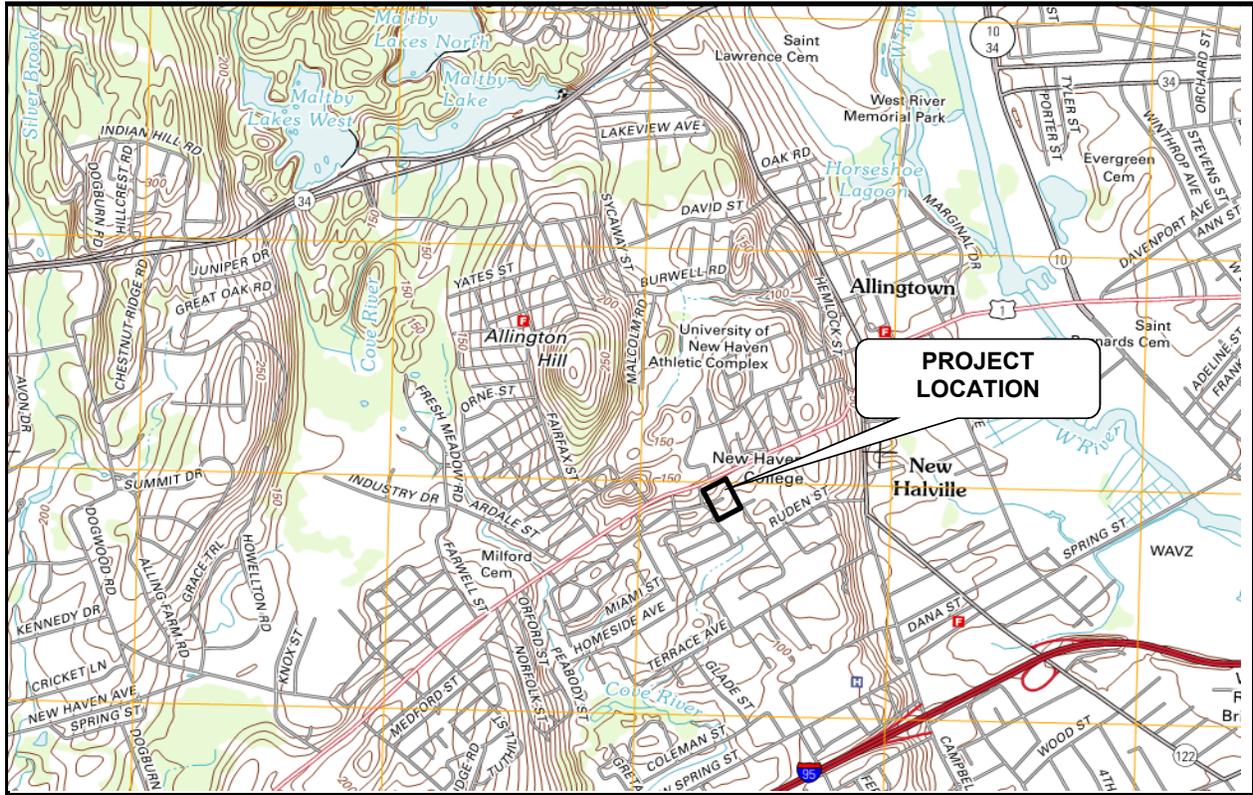
As of the date of this publication, there are two designated rivers in Connecticut, both of which are managed under the Partnership Wild and Scenic Rivers Program, through a Coordinating Committee consisting of representatives from local communities and organizations, state government and the National Park Service. More information about these rivers, their watersheds, approved management plans, the Wild and Scenic Coordinating Committees and specific contact information can be found on the websites.

1. West Branch of the Farmington River: www.farmingtonriver.org
2. Eightmile River: www.eightmileriver.org

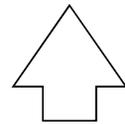


Appendix B:

Part IV Site Information Maps



ATTACHMENT A: USGS TOPOGRAPHIC QUADRANGLE MAP
 NEW HAVEN QUADRANGLE
 SCALE: 1:[24,000]
 CONTOUR INTERVAL 10 FEET
 NATIONAL GEODETIC VERTICAL DATUM OF 1983



NORTH



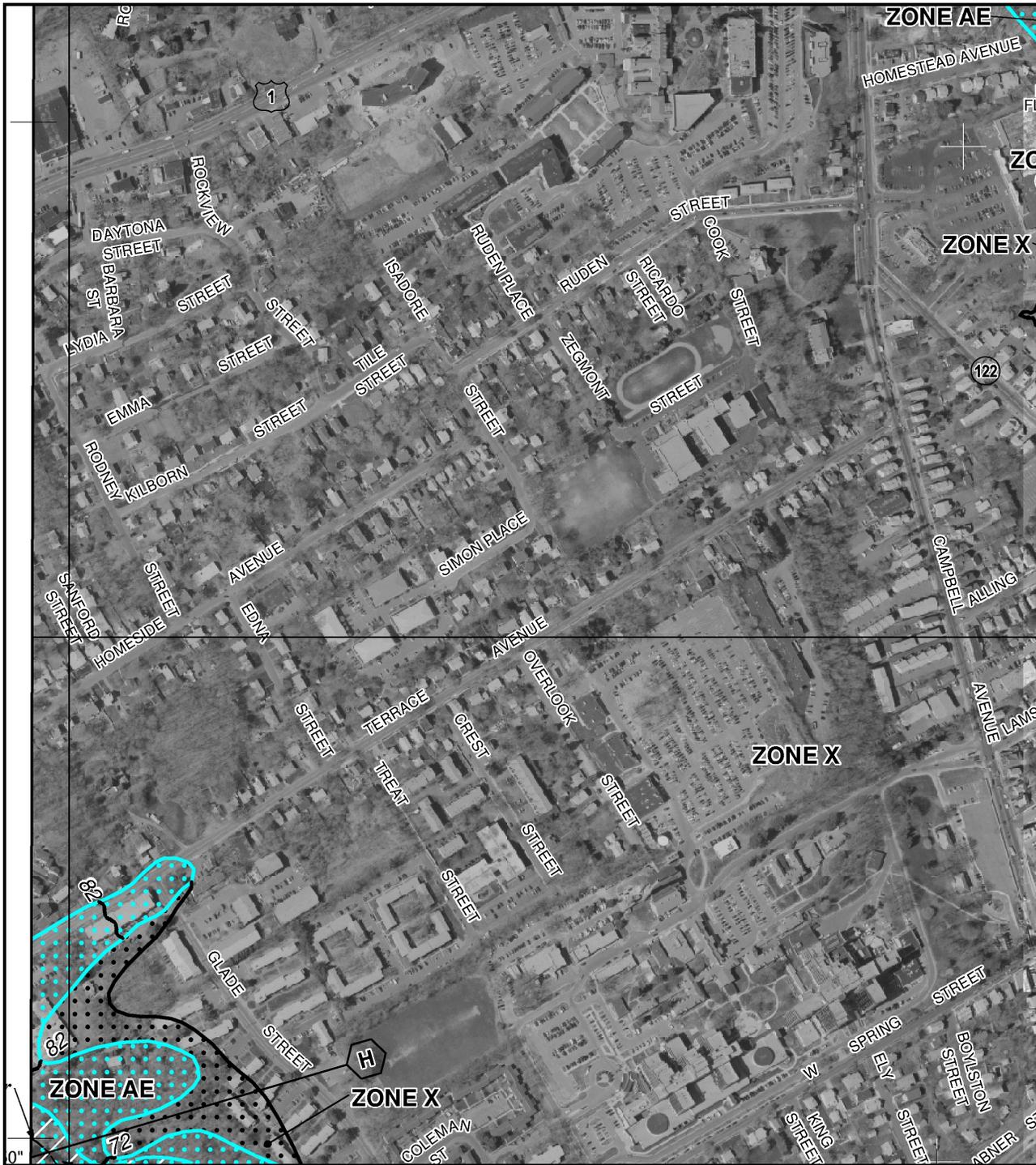
BVH
 integrated
 services

50 Griffin Road South
 Bloomfield, CT 06002
 Tel: (860) 288-9171
 Fax: (860) 242-0236

CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL ENGINEERS

JOB NO: 2109113
 REGISTRANT: City of New Haven Board of Education
 SUBJECT: USGS Topographic Quadrangle Map

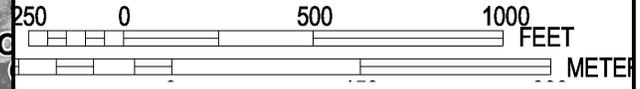
Prepared By: DCC Date: 1/17/2014 Checked By: TSD



ZONE AE

HOMESTEAD AVENUE

MAP SCALE 1" = 500'



ZONE X

PANEL 0437H

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP
NEW HAVEN COUNTY,
CONNECTICUT
 (ALL JURISDICTIONS)

PANEL 437 OF 635
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
NEW HAVEN, CITY OF	090084	0437	H
WEST HAVEN, CITY OF	090092	0437	H

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.



MAP NUMBER
09009C0437H
EFFECTIVE DATE
DECEMBER 17, 2010

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

COASTAL BOUNDARY WEST HAVEN, CONNECTICUT

LEGEND

 Coastal Boundary

EXPLANATION

The coastal boundary map shows the extent of lands and coastal waters as defined by Connecticut General Statute within Connecticut's coastal area. The coastal boundary is a continuous line delineated on the landward side by the interior contour elevation of the one hundred year frequency coastal flood zone, as defined and determined by the National Flood Insurance Act, or a one thousand foot linear setback measured from the mean high water mark in coastal waters, or a one thousand foot linear setback measured from the inland boundary of tidal wetlands, whichever is farthest inland; and shall be delineated on the seaward side by the seaward extent of the jurisdiction of the state.

Any regulated activity conducted within the coastal boundary by a municipal agency (i.e., plans of development, zoning regulations, municipal coastal programs and coastal site plan review (i.e., site plans submitted to zoning commission, subdivision or subdivision plans submitted to planning commission, application for special permit or exception to the zoning or planning commissions or zoning board of appeals, variance submitted to

zoning board of appeals and a referral of a municipal project) must be conducted in a manner consistent with the requirements of the Connecticut Coastal Management Act (CMA). As the Coastal Boundary is a hybrid of the Coastal Area, all state and federal agency activities must be consistent with the requirements of the CMA. The coastal boundary is a hybrid of the original 1:24,000 version maps prepared by DEP and the revised boundary mapping undertaken by twenty-two coastal towns. This layer therefore does not replace the legal maps and may not be used for legal determinations.

The following twenty-two towns have adopted municipal coastal boundaries: Chester, Clinton, Darien, Deep River, East Haven, Essex, Fairfield, Greenwich, Groton, Guilford, Hamden, Ledyard, Madison, Milford, New Haven, New London, North Haven, Norwalk, Old Lyme, Old Saybrook, Stamford and Waterford. The coastal boundary maps for these towns may be at different scales than the original DEP draft maps and may contain minor adjustments to the boundary.

DATA SOURCES

COASTAL BOUNDARY DATA - The original boundary maps were created in 1979 on stable mylar overlay using the 1:24,000-scale US Geological Survey topographic quadrangle maps (mylar film format). The source for tidal wetland maps were the legal 1:24,000 maps (mylar format) adopted by the Commissioner of DEP and transferred to 1:24,000 mylar-scale maps by the Office of Policy and Management (OPM) using an accurate pantograph. OPM similarly converted FEMA's flood insurance maps (various scales) to a 1:24,000 mylar overlay. The inland extent of coastal waters was plotted on 1:24,000 USGS topographic maps following the procedures and sources described in The Boundary Between Saltwater and Freshwater in Connecticut, December 1978 prepared by the State of Connecticut, Department of Environmental Protection, Coastal Area Management Program.

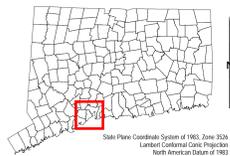
BASE MAP DATA - Based on data originally from 1:24,000-scale USGS 7.5 minute topographic quadrangle maps published between 1969 and 1992. It includes political boundaries, railroads, airports, hydrography, geographic names and geographic places. Streets and street names are from Tele Atlas® copyrighted data. Base map information is neither current nor complete.

RELATED INFORMATION

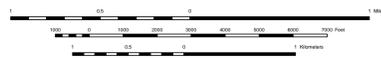
This map is intended to be printed at its original dimensions in order to maintain the 1:24,000 scale (1 inch = 2000 feet).

MAPS AND DIGITAL DATA - Go to the CT ECO website for this map and a variety of others. Go to the DEEP website for the digital spatial data shown on this map.

MAP LOCATION



State Plane Coordinate System of 1983, Zone 1826
Lambert Conformal Conic Projection
North American Datum of 1983



SCALE: 1:24,000 (1 inch = 2000 feet) when map is printed at original size



Impaired Waters Table for Construction Stormwater Discharges

General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, issued August 21, 2013, effective October 1, 2013

Waterbody ID or 305B ID	Waterbody Name	Impaired Designated Use	Pollutant	Approved TMDL?
CT4500-00-3-L3_01	Union Pond (Manchester)	Habitat for Fish, Other Aquatic Life and Wildlife	Sedimentation/ Siltation	No
CT4601-00-1-L2_01	Silver Lake (Berlin/ Meriden)	Habitat for Fish, Other Aquatic Life and Wildlife	Turbidity	No
CT5111-09-2-L3_01	Branford Supply Pond, Northwest (Branford)	Habitat for Fish, Other Aquatic Life and Wildlife	Sedimentation/ Siltation	No
CT5111-09-2-L3_01	Branford Supply Pond, Northwest (Branford)	Habitat for Fish, Other Aquatic Life and Wildlife	Total Suspended Solids (TSS)	No
CT5111-09-2-L3_01	Branford Supply Pond, Northwest (Branford)	Habitat for Fish, Other Aquatic Life and Wildlife	Turbidity	No
CT5112-10_01	Burrs Brook-01	Habitat for Fish, Other Aquatic Life and Wildlife	Turbidity	No
CT5200-00-4-L2_01	Hanover Pond (Meriden)	Habitat for Fish, Other Aquatic Life and Wildlife	Sedimentation/ Siltation	No
CT6016-00-1-L3_01	Hatch Pond (Kent)	Habitat for Fish, Other Aquatic Life and Wildlife	Sedimentation/ Siltation	No
CT6016-00-1-L3_01	Hatch Pond (Kent)	Recreation	Sedimentation/ Siltation	No
CT7300-00_01	Norwalk River-01	Habitat for Fish, Other Aquatic Life and Wildlife	Sedimentation/ Siltation	No

Natural Diversity Data Base Areas

WEST HAVEN, CT

December 2013

-  State and Federal Listed Species & Significant Natural Communities
-  Town Boundary

NOTE: This map shows general locations of State and Federal Listed Species and Significant Natural Communities. Information on listed species is collected and compiled by the Natural Diversity Data Base (NDDB) from a number of data sources. Exact locations of species have been buffered to produce the general locations. Exact locations of species and communities occur somewhere in the shaded areas, not necessarily in the center. A new mapping format is being employed that more accurately models important riparian and aquatic areas and eliminates the need for the upstream/downstream searches required in previous versions.

This map is intended for use as a preliminary screening tool for conducting a Natural Diversity Data Base Review Request. To use the map, locate the project boundaries and any additional affected areas. If the project is within a shaded area there may be a potential conflict with a listed species. For more information, complete a Request for Natural Diversity Data Base State Listed Species Review form (DEP-APP-007), and submit it to the NDDB along with the required maps and information. More detailed instructions are provided with the request form on our website.

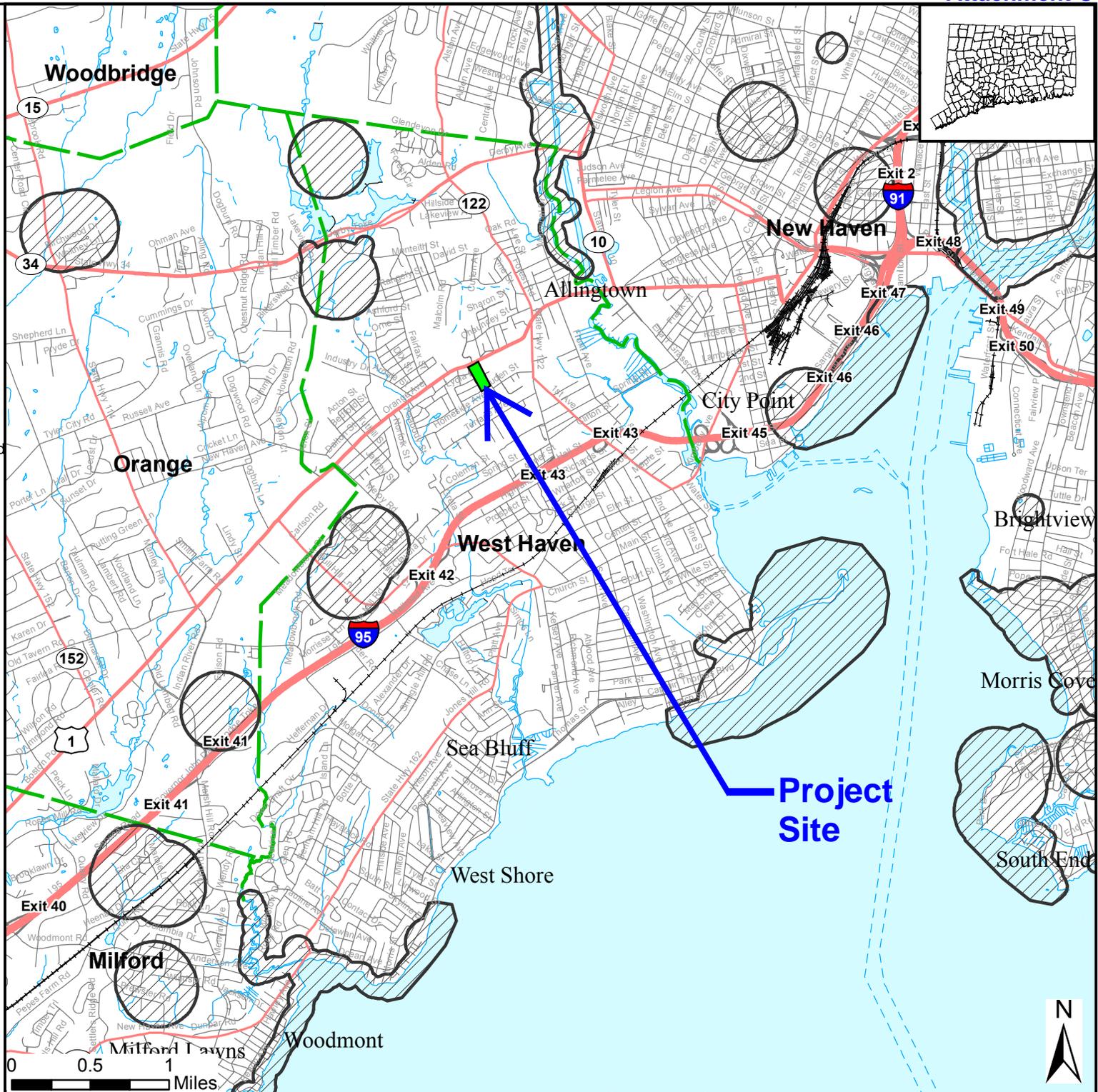
www.ct.gov/deep/nddbrequest

This file has PDF Layers. Look for the Layers tab on the left. Expand the layers and use the "eye" icons to change visibility.

QUESTIONS: Department of Energy and Environmental Protection (DEEP)
79 Elm St., Hartford CT 06106
Phone (860) 424-3011



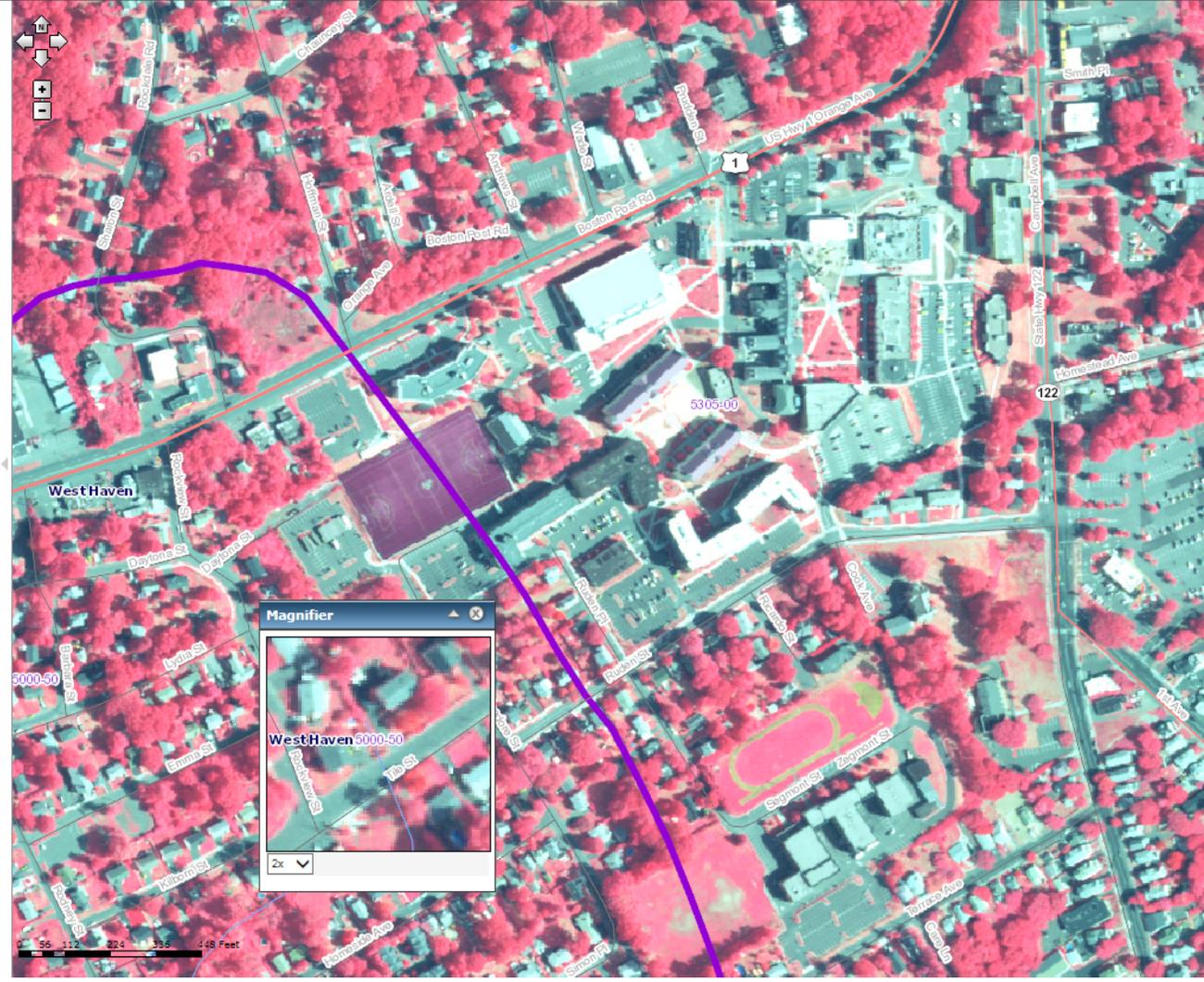
Connecticut Department of Energy & Environmental Protection
Bureau of Natural Resources
Wildlife Division



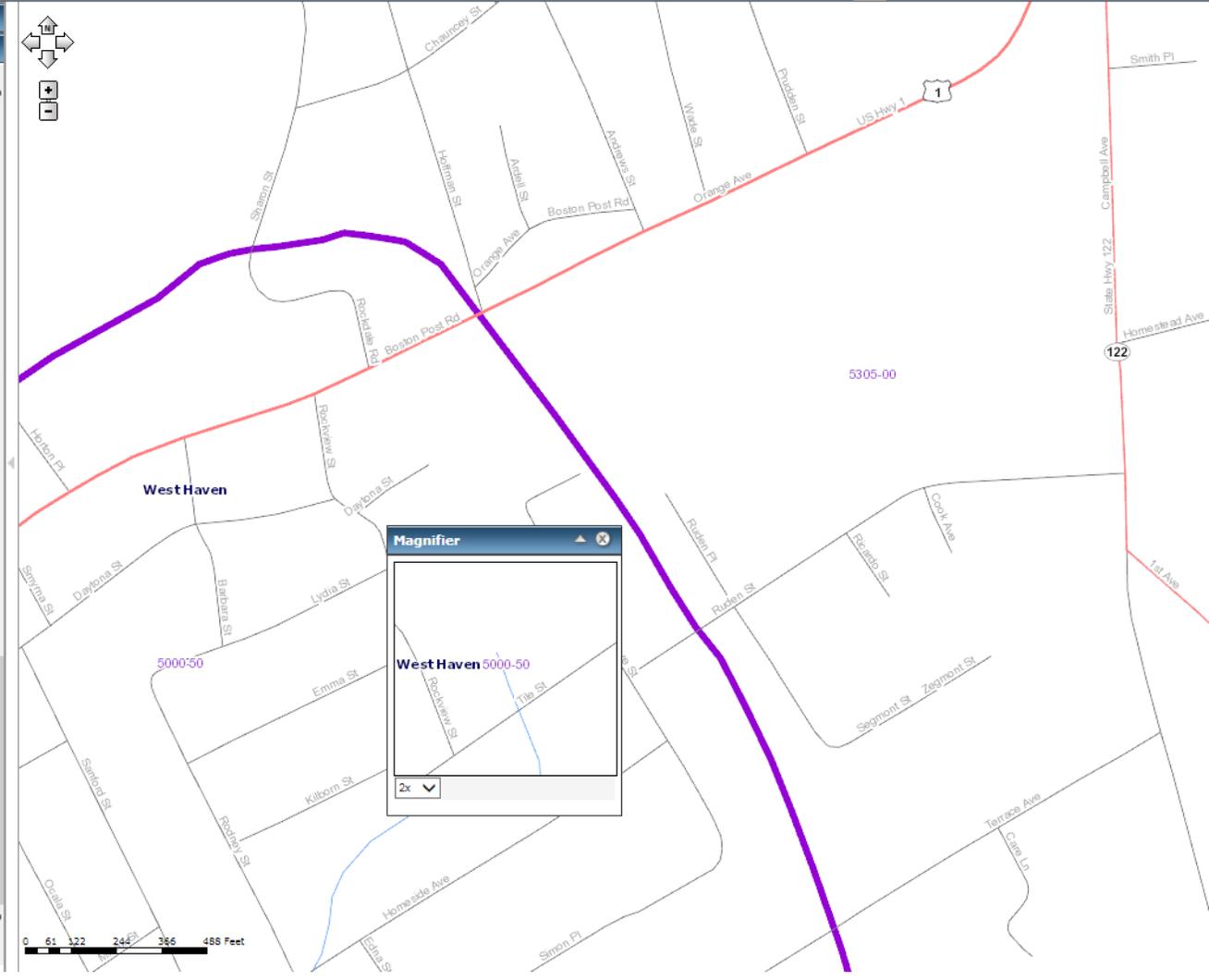
Find an Address | Find a Town | Find a Place | Print a Map | Data Layer Info



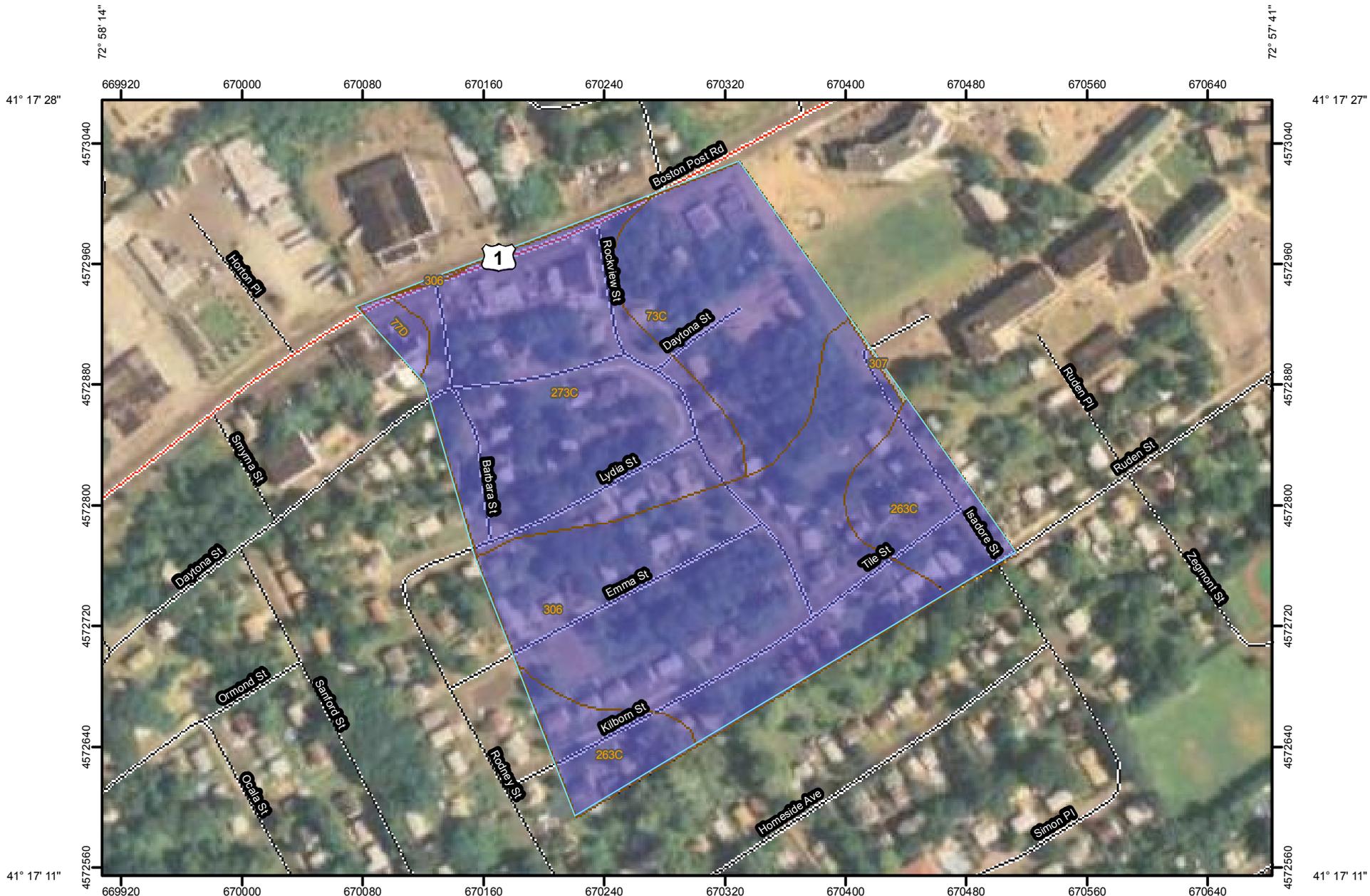
- Results
- Map Contents
 - Eelgrass Beds 2009
 - Eelgrass Beds 2006
 - Eelgrass Beds 2002
 - Tidal Wetland 1990s
 - Tidal Wetland 1970s
 - Soils
 - Soils
 - Farmland Soils
 - Hydric Soils
 - Inland Wetland Soils
 - Soil Parent Material
 - Soil Potential for Subsurf
 - Soil Flooding Class
 - Soil Drainage Class
 - Geology
 - Erosion Susceptibility
 - Surficial Materials
 - Quaternary Geology
 - Imagery and Topo
 - 2004 BW Orthophotogra
 - 1990 BW Orthophotogra
 - 2010 NAIP Color Orthoph
 - 2010 NAIP Infrared Orth
 - 2008 NAIP Color Orthoph
 - 2008 NAIP Color Infrarec
 - 2006 NAIP Color Orthoph
 - 2008 Urban Area Color C
 - 2004 Coastal Color Ortho
 - 2005 Coastal Infrared Or
 - 2004 Coastal Infrared Or
 - Hillshade 2000
 - Shaded Relief 2000
 - CT Vicinity States
 - CT, MA, NJ, NY, and RI



- Results**
- Map Contents**
- Eelgrass Beds 2009
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 - 2008 NAIP Color Infrarec
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 - 2004 Coastal Color Ortho
 - 2005 Coastal Infrared Or
 - 2004 Coastal Infrared Or
 - Hillshade 2000
 - Shaded Relief 2000
 - CT Vicinity States
 - CT, MA, NJ, NY, and RI



Hydrologic Soil Group—State of Connecticut
(ESUMS - Soil Map)



72° 58' 15"



Map Scale: 1:3,680 if printed on A size (8.5" x 11") sheet.



72° 57' 42"

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Units

Soil Ratings

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Political Features

 Cities

Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads

MAP INFORMATION

Map Scale: 1:3,680 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>

Coordinate System: UTM Zone 18N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: State of Connecticut

Survey Area Data: Version 10, Mar 31, 2011

Date(s) aerial images were photographed: 8/14/2006

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — State of Connecticut (CT600)				
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
73C	Charlton-Chatfield complex, 3 to 15 percent slopes, very rocky	B	4.4	17.8%
77D	Cheshire-Holyoke complex, 15 to 35 percent slopes, very rocky	B	0.3	1.2%
263C	Cheshire-Urban land complex, 8 to 15 percent slopes	B	3.1	12.6%
273C	Urban land-Charlton-Chatfield complex, rocky, 3 to 15 percent slopes	B	7.6	30.4%
306	Udorthents-Urban land complex	B	9.4	37.7%
307	Urban land		0.0	0.2%
Totals for Area of Interest			24.9	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

Engineering Properties

This table gives the engineering classifications and the range of engineering properties for the layers of each soil in the survey area.

Hydrologic group is a group of soils having similar runoff potential under similar storm and cover conditions. Soil properties that influence runoff potential are those that influence the minimum rate of infiltration for a bare soil after prolonged wetting and when not frozen. These properties are depth to a seasonal high water table, saturated hydraulic conductivity after prolonged wetting, and depth to a layer with a very slow water transmission rate. Changes in soil properties caused by land management or climate changes also cause the hydrologic soil group to change. The influence of ground cover is treated independently. There are four hydrologic soil groups, A, B, C, and D, and three dual groups, A/D, B/D, and C/D. In the dual groups, the first letter is for drained areas and the second letter is for undrained areas.

The four hydrologic soil groups are described in the following paragraphs:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

Depth to the upper and lower boundaries of each layer is indicated.

Texture is given in the standard terms used by the U.S. Department of Agriculture. These terms are defined according to percentages of sand, silt, and clay in the fraction of the soil that is less than 2 millimeters in diameter. "Loam," for example, is soil that is 7 to 27 percent clay, 28 to 50 percent silt, and less than 52 percent sand. If the content of particles coarser than sand is 15 percent or more, an appropriate modifier is added, for example, "gravelly."

Classification of the soils is determined according to the Unified soil classification system (ASTM, 2005) and the system adopted by the American Association of State Highway and Transportation Officials (AASHTO, 2004).

The Unified system classifies soils according to properties that affect their use as construction material. Soils are classified according to particle-size distribution of the fraction less than 3 inches in diameter and according to plasticity index, liquid limit, and organic matter content. Sandy and gravelly soils are identified as GW, GP, GM, GC, SW, SP, SM, and SC; silty and clayey soils as ML, CL, OL, MH, CH, and OH; and highly organic soils as PT. Soils exhibiting engineering properties of two groups can have a dual classification, for example, CL-ML.

The AASHTO system classifies soils according to those properties that affect roadway construction and maintenance. In this system, the fraction of a mineral soil that is less than 3 inches in diameter is classified in one of seven groups from A-1 through A-7 on the basis of particle-size distribution, liquid limit, and plasticity index. Soils in group A-1 are coarse grained and low in content of fines (silt and clay). At the other extreme, soils in group A-7 are fine grained. Highly organic soils are classified in group A-8 on the basis of visual inspection.

If laboratory data are available, the A-1, A-2, and A-7 groups are further classified as A-1-a, A-1-b, A-2-4, A-2-5, A-2-6, A-2-7, A-7-5, or A-7-6. As an additional refinement, the suitability of a soil as subgrade material can be indicated by a group index number. Group index numbers range from 0 for the best subgrade material to 20 or higher for the poorest.

Rock fragments larger than 10 inches in diameter and 3 to 10 inches in diameter are indicated as a percentage of the total soil on a dry-weight basis. The percentages are estimates determined mainly by converting volume percentage in the field to weight percentage.

Percentage (of soil particles) passing designated sieves is the percentage of the soil fraction less than 3 inches in diameter based on an oven-dry weight. The sieves, numbers 4, 10, 40, and 200 (USA Standard Series), have openings of 4.76, 2.00, 0.420, and 0.074 millimeters, respectively. Estimates are based on laboratory tests of soils sampled in the survey area and in nearby areas and on estimates made in the field.

Liquid limit and plasticity index (Atterberg limits) indicate the plasticity characteristics of a soil. The estimates are based on test data from the survey area or from nearby areas and on field examination.

References:

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Report—Engineering Properties

Absence of an entry indicates that the data were not estimated. The asterisk "*" denotes the representative texture; other possible textures follow the dash.

Engineering Properties--State of Connecticut														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
73C--Charlton-Chatfield complex, 3 to 15 percent slopes, very rocky														
Charlton	45	B	0-4	Fine sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	80-85	30-45	15-25	NP-5
			4-7	Fine sandy loam, gravelly fine sandy loam, sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
			7-19	Sandy loam, fine sandy loam, gravelly fine sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
			19-27	Fine sandy loam, gravelly fine sandy loam, sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
			27-65	Gravelly sandy loam, gravelly fine sandy loam	SM	A-2, A-4	0-5	0-10	75-85	60-70	50-70	20-40	10-25	NP-5
Chatfield	30	B	0-1	Highly decomposed plant material	OL	A-8	0	0	100	100	100	100	—	NP-5
			1-6	Gravelly fine sandy loam	SM	A-2, A-4	0-5	0-5	70-85	55-75	45-75	15-40	10-25	NP-5
			6-15	Gravelly loam, gravelly sandy loam, gravelly fine sandy loam, loam	SM, ML	A-2, A-4	0	0-10	75-100	60-90	45-90	15-60	10-25	NP-10
			15-29	Fine sandy loam, gravelly sandy loam, gravelly fine sandy loam, loam	SM	A-2, A-4	0	0-10	70-100	60-90	40-90	15-50	10-25	NP-10
			29-80	Unweathered bedrock	—	—	—	—	—	—	—	—	—	—

Engineering Properties--State of Connecticut														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
263C—Cheshire-Urban land complex, 8 to 15 percent slopes														
Cheshire	40	B	0-8	Fine sandy loam	SM	A-2, A-4	0-5	0-10	90-100	80-90	70-85	30-45	15-25	NP-5
			8-16	Fine sandy loam, silt loam, gravelly sandy loam	ML, SM	A-2, A-4	0-5	0-10	65-100	55-90	40-90	20-75	15-25	NP-5
			16-26	Fine sandy loam, silt loam, gravelly sandy loam	ML, SM	A-2, A-4	0-5	0-10	65-100	55-90	40-90	20-75	15-25	NP-5
			26-65	Gravelly sandy loam, fine sandy loam, gravelly fine sandy loam	SM	A-2	0-5	0-10	65-100	55-90	45-85	25-35	15-25	NP-5
Urban land	35		0-6	Material	—	—	—	—	—	—	—	—	—	—

Engineering Properties--State of Connecticut														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
273C—Urban land-Charlton-Chatfield complex, rocky, 3 to 15 percent slopes														
Urban land	35		0-6	Material	—	—	—	—	—	—	—	—	—	—
Charlton	25	B	0-4	Fine sandy loam	SM	A-2, A-4	0-5	0-5	95-100	80-90	80-85	30-45	15-25	NP-5
			4-7	Fine sandy loam, gravelly fine sandy loam, sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
			7-19	Sandy loam, fine sandy loam, gravelly fine sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
			19-27	Fine sandy loam, gravelly fine sandy loam, sandy loam	SM	A-2, A-4	0-5	0-10	75-100	60-90	55-80	25-45	15-25	NP-5
			27-65	Gravelly sandy loam, gravelly fine sandy loam	SM	A-2, A-4	0-5	0-10	75-85	60-70	50-70	20-40	10-25	NP-5
Chatfield	15	B	0-1	Highly decomposed plant material	OL	A-8	0	0	100	100	100	100	—	NP-5
			1-6	Gravelly fine sandy loam	SM	A-2, A-4	0-5	0-5	70-85	55-75	45-75	15-40	10-25	NP-5
			6-15	Gravelly loam, gravelly sandy loam, gravelly fine sandy loam, loam	SM, ML	A-2, A-4	0	0-10	75-100	60-90	45-90	15-60	10-25	NP-10
			15-29	Fine sandy loam, gravelly sandy loam, gravelly fine sandy loam, loam	SM	A-4, A-2	0	0-10	70-100	60-90	40-90	15-50	10-25	NP-10

Engineering Properties--State of Connecticut														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Fragments		Percentage passing sieve number--				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>Pct</i>	<i>Pct</i>					<i>Pct</i>	
			29-80	Unweathered bedrock	—	—	—	—	—	—	—	—	—	—
306—Udorthents-Urban land complex														
Udorthents	50	B	0-5	Loam	CL-ML, ML, SC-SM, SM	A-4	0	0-10	90-100	80-100	70-100	45-75	15-25	NP-10
			5-21	Extremely gravelly coarse sand, silty clay loam, gravelly loam	SM, SC-SM, ML, CL-ML, GC-GM, GM	A-3, A-2, A-1, A-4	0-20	0-25	45-100	30-100	10-100	5-95	15-30	NP-10
			21-80	Very gravelly sandy loam, extremely gravelly coarse sand, silty clay loam	SM, SC-SM, ML, CL-ML, GM, GC-GM	A-1, A-2, A-3, A-4	0-20	0-25	45-100	30-100	10-100	5-95	15-30	NP-10
Urban land	35		0-6	Material	—	—	—	—	—	—	—	—	—	—
307—Urban land														
Urban land	80		0-6	Material	—	—	—	—	—	—	—	—	—	—

Data Source Information

Soil Survey Area: State of Connecticut
 Survey Area Data: Version 11, Nov 19, 2013

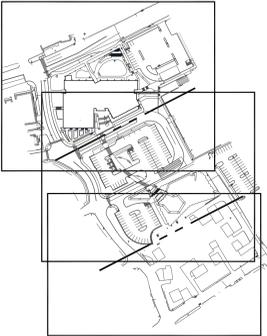


Appendix C:

Site Drainage Maps and Grading and Drainage Plans



CIVIL, STRUCTURAL, MECHANICAL,
ELECTRICAL, TECHNOLOGY AND COMMISSIONING



KEYPLAN

REVISION LOG:

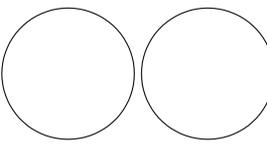
No.	Description	Date

PROJECT NAME:
**ENGINEERING & SCIENCE UNIVERSITY
MAGNET SCHOOL**

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

ISSUED FOR PERMIT
April 8, 2014
NOT FOR CONSTRUCTION

PHASE:

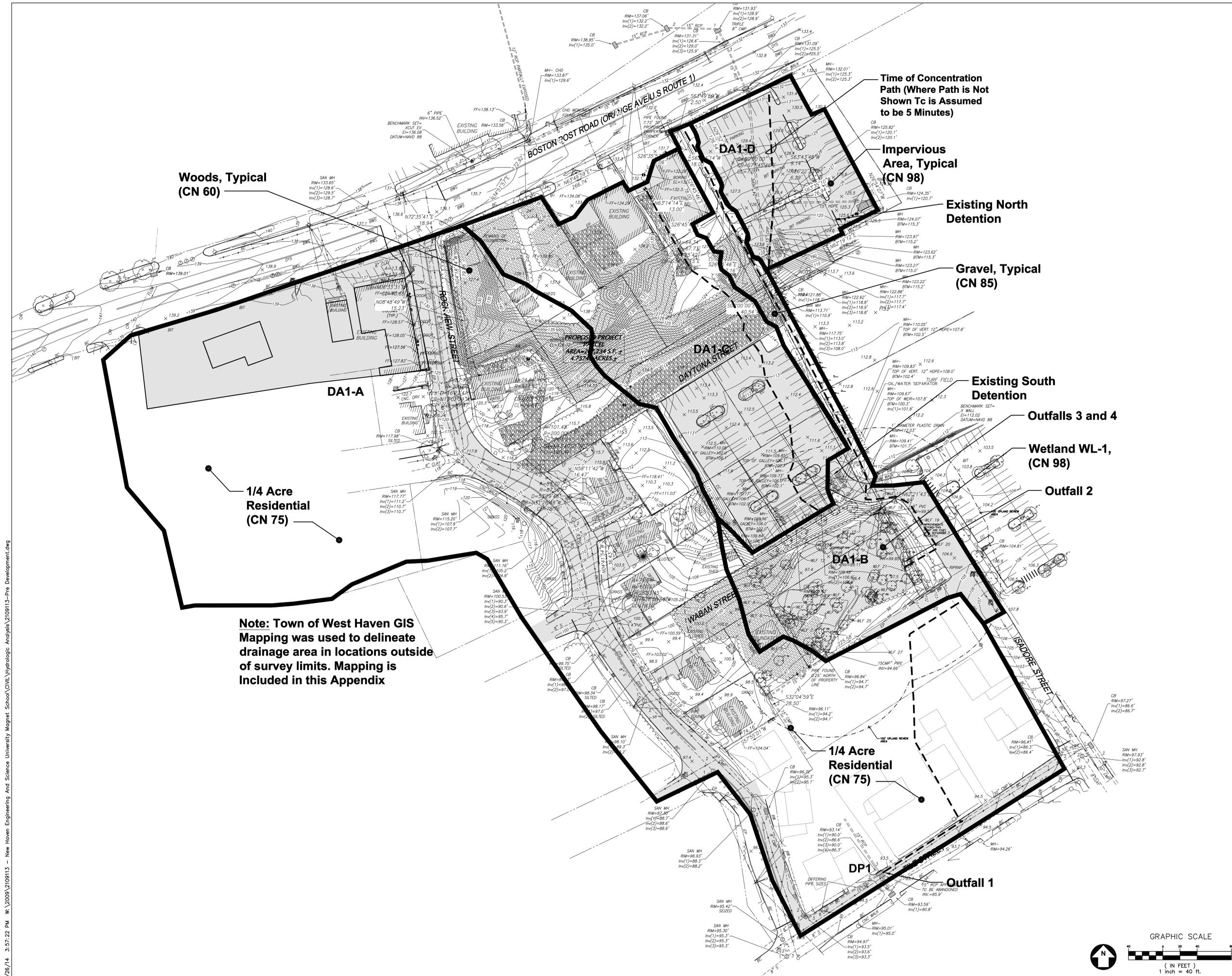


DRAWING TITLE:
**PRE-DEVELOPMENT
HYDROLOGIC
ANALYSIS PLAN**

SCALE: DATE:
JOB NUMBER: SDE NUMBER:
0938.00 1"=40'
093-0357 MAG/N

DRAWING NUMBER:

SD-1



**Woods, Typical
(CN 60)**

**Time of Concentration
Path (Where Path is Not
Shown Tc is Assumed
to be 5 Minutes)**

**Impervious
Area, Typical
(CN 98)**

**Existing North
Detention**

**Gravel, Typical
(CN 85)**

**Existing South
Detention**

Outfalls 3 and 4

**Wetland WL-1,
(CN 98)**

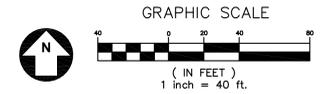
Outfall 2

**1/4 Acre
Residential
(CN 75)**

**Note: Town of West Haven GIS
Mapping was used to delineate
drainage area in locations outside
of survey limits. Mapping is
Included in this Appendix**

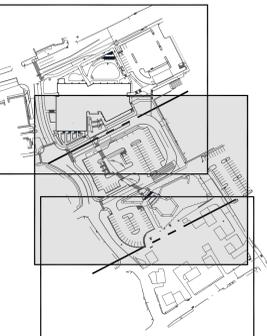
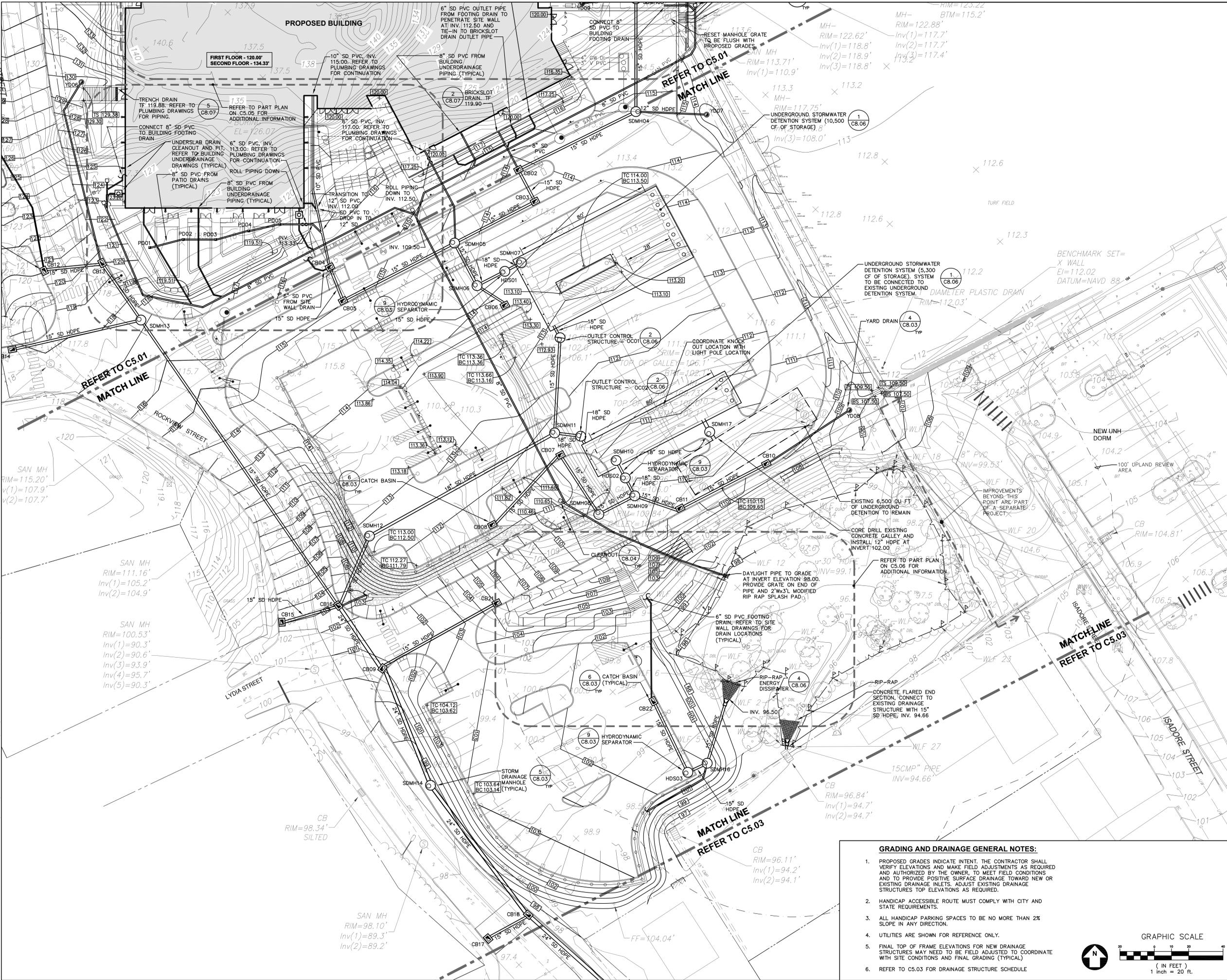
**1/4 Acre
Residential
(CN 75)**

Outfall 1



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KEYPLAN

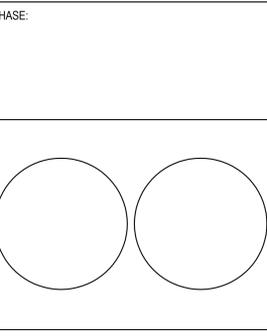
REVISION LOG:

No.	Description	Date

PROJECT NAME:
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

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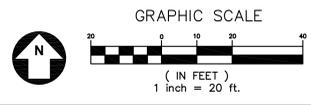


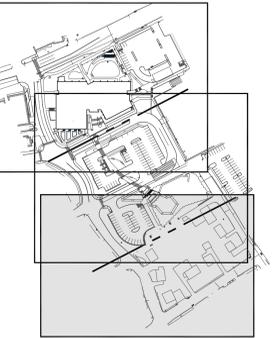
DRAWING TITLE:
SITE GRADING AND DRAINAGE PLAN

SCALE:	DATE:
1"=20'	FEBRUARY 26, 2014
JOB NUMBER:	SDE NUMBER:
0938.00	093-0357 MAG/N
DRAWING NUMBER:	

GRADING AND DRAINAGE GENERAL NOTES:

1. PROPOSED GRADES INDICATE INTENT. THE CONTRACTOR SHALL VERIFY ELEVATIONS AND MAKE FIELD ADJUSTMENTS AS REQUIRED AND AUTHORIZED BY THE OWNER, TO MEET FIELD CONDITIONS AND TO PROVIDE POSITIVE SURFACE DRAINAGE TOWARD NEW OR EXISTING DRAINAGE INLETS. ADJUST EXISTING DRAINAGE STRUCTURES TOP ELEVATIONS AS REQUIRED.
2. HANDICAP ACCESSIBLE ROUTE MUST COMPLY WITH CITY AND STATE REQUIREMENTS.
3. ALL HANDICAP PARKING SPACES TO BE NO MORE THAN 2% SLOPE IN ANY DIRECTION.
4. UTILITIES ARE SHOWN FOR REFERENCE ONLY.
5. FINAL TOP OF FRAME ELEVATIONS FOR NEW DRAINAGE STRUCTURES MAY NEED TO BE FIELD ADJUSTED TO COORDINATE WITH SITE CONDITIONS AND FINAL GRADING (TYPICAL).
6. REFER TO C5.03 FOR DRAINAGE STRUCTURE SCHEDULE





KEYPLAN

REVISION LOG:

No.	Description	Date

PROJECT NAME:
**ENGINEERING & SCIENCE UNIVERSITY
MAGNET SCHOOL**

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

ISSUED FOR PERMIT
April 8, 2014
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PHASE:

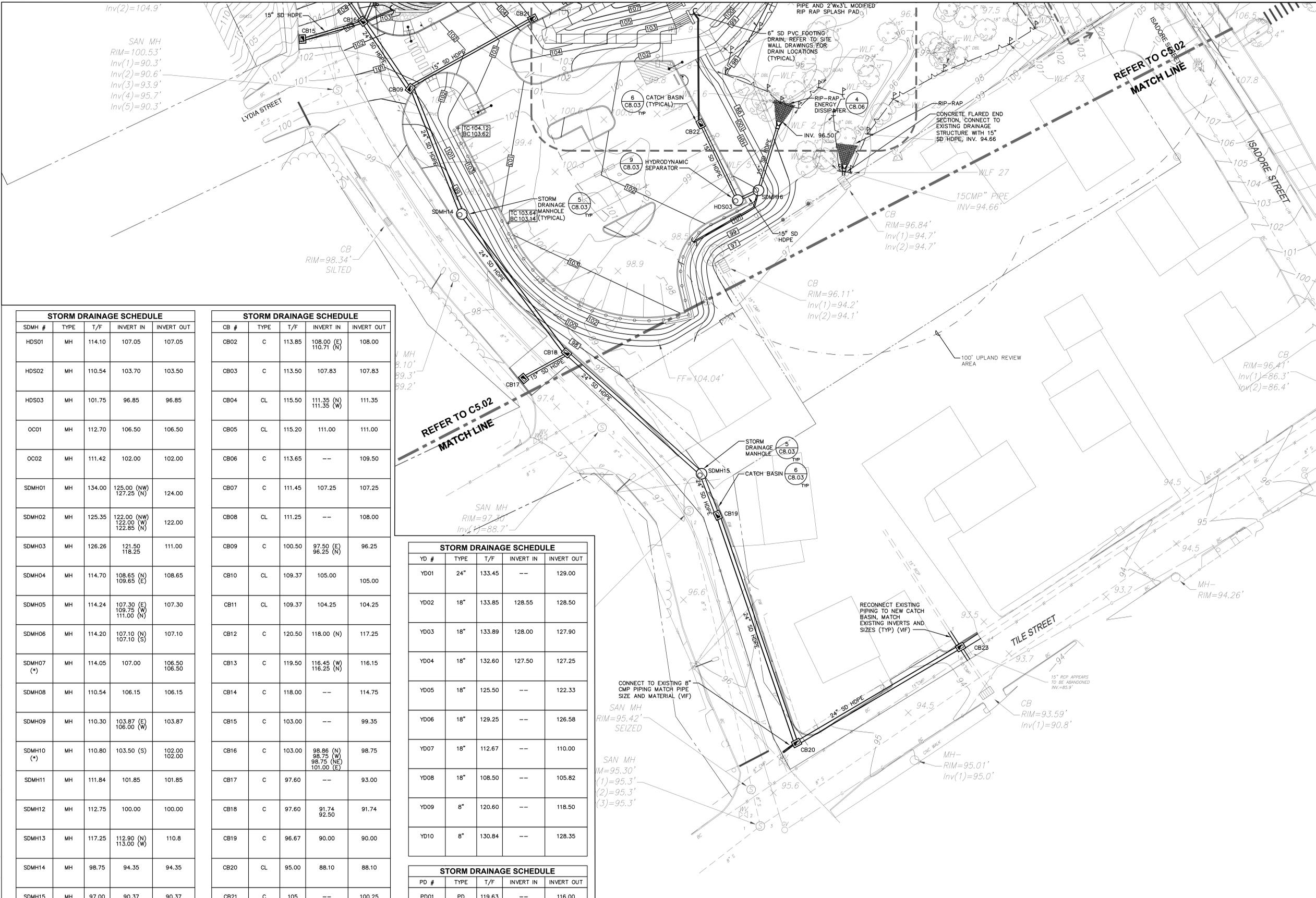
DRAWING TITLE:
**SITE GRADING
AND DRAINAGE
PLAN**

SCALE: 1"=20' DATE: FEBRUARY 26, 2014

JOB NUMBER: 0938.00 SDE NUMBER: 093-0357 MAG/N

DRAWING NUMBER:

C5.03



STORM DRAINAGE SCHEDULE

SDMH #	TYPE	T/F	INVERT IN	INVERT OUT
HDS01	MH	114.10	107.05	107.05
HDS02	MH	110.54	103.70	103.50
HDS03	MH	101.75	96.85	96.85
OC01	MH	112.70	106.50	106.50
OC02	MH	111.42	102.00	102.00
SDMH01	MH	134.00	125.00 (NW) 127.25 (N)	124.00
SDMH02	MH	125.35	122.00 (NW) 122.00 (W) 122.85 (N)	122.00
SDMH03	MH	126.26	121.50 118.25	111.00
SDMH04	MH	114.70	108.85 (N) 109.85 (E)	108.65
SDMH05	MH	114.24	107.30 (E) 109.75 (W) 111.00 (N)	107.30
SDMH06	MH	114.20	107.10 (N) 107.10 (S)	107.10
SDMH07 (*)	MH	114.05	107.00	106.50 106.50
SDMH08	MH	110.54	106.15	106.15
SDMH09	MH	110.30	103.87 (E) 106.00 (W)	103.87
SDMH10 (*)	MH	110.80	103.50 (S)	102.00 102.00
SDMH11	MH	111.84	101.85	101.85
SDMH12	MH	112.75	100.00	100.00
SDMH13	MH	117.25	112.90 (N) 113.00 (W)	110.8
SDMH14	MH	98.75	94.35	94.35
SDMH15	MH	97.00	90.37	90.37
SDMH16	MH	102.00	96.75 (W) 98.00 (SW)	96.75
SDMH17	MH	110.45	102.00	102.00
SDMH18	MH	132.34	127.80	127.80
SDMH19	MH	132.00	125.30 (N) 126.30 (W)	125.30

STORM DRAINAGE SCHEDULE

CB #	TYPE	T/F	INVERT IN	INVERT OUT
CB02	C	113.85	108.00 (E) 110.71 (N)	108.00
CB03	C	113.50	107.83	107.83
CB04	CL	115.50	111.35 (N) 111.35 (W)	111.35
CB05	CL	115.20	111.00	111.00
CB06	C	113.65	--	109.50
CB07	C	111.45	107.25	107.25
CB08	CL	111.25	--	108.00
CB09	C	100.50	97.50 (E) 96.25 (N)	96.25
CB10	CL	109.37	105.00	105.00
CB11	CL	109.37	104.25	104.25
CB12	C	120.50	118.00 (N)	117.25
CB13	C	119.50	116.45 (W) 116.25 (N)	116.15
CB14	C	118.00	--	114.75
CB15	C	103.00	--	99.35
CB16	C	103.00	98.86 (N) 98.75 (W) 98.75 (NE) 101.00 (E)	98.75
CB17	C	97.60	--	93.00
CB18	C	97.60	91.74 92.50	91.74
CB19	C	96.67	90.00	90.00
CB20	CL	95.00	88.10	88.10
CB21	C	105	--	100.25
CB22	C	101.00	98.50 (N)	97.25
CB23	CL	93.14	90.00 (S) 86.60 (W) 90.00 (N)	86.30 (E)
CB24	C	131.84	--	127.85

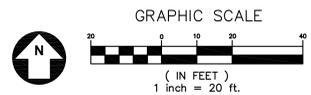
STORM DRAINAGE SCHEDULE

YD #	TYPE	T/F	INVERT IN	INVERT OUT
YD01	24"	133.45	--	129.00
YD02	18"	133.85	128.55	128.50
YD03	18"	133.89	128.00	127.90
YD04	18"	132.60	127.50	127.25
YD05	18"	125.50	--	122.33
YD06	18"	129.25	--	126.58
YD07	18"	112.67	--	110.00
YD08	18"	108.50	--	105.82
YD09	8"	120.60	--	118.50
YD10	8"	130.84	--	128.35

STORM DRAINAGE SCHEDULE

PD #	TYPE	T/F	INVERT IN	INVERT OUT
PD01	PD	119.63	--	116.00
PD02	PD	119.68	115.80	115.80
PD03	PD	119.70	115.60	115.60
PD04	PD	119.81	115.40	115.40
PD05	PD	119.86	115.20	115.20

- GRADING AND DRAINAGE GENERAL NOTES:**
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 - HANDICAP ACCESSIBLE ROUTE MUST COMPLY WITH CITY AND STATE REQUIREMENTS.
 - ALL HANDICAP PARKING SPACES TO BE NO MORE THAN 2% SLOPE IN ANY DIRECTION.
 - UTILITIES ARE SHOWN FOR REFERENCE ONLY.
 - FINAL TOP OF FRAME ELEVATIONS FOR NEW DRAINAGE STRUCTURES MAY NEED TO BE FIELD ADJUSTED TO COORDINATE WITH SITE CONDITIONS AND FINAL GRADING (TYPICAL).
 - REFER TO C5.03 FOR DRAINAGE STRUCTURE SCHEDULE

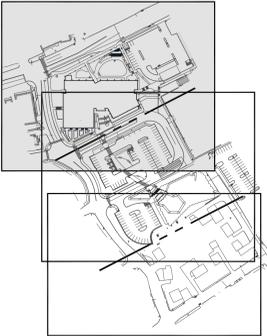


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Appendix D:

Soil Erosion and Sediment Control Plans and Details



REVISION LOG:

No.	Description	Date

PROJECT NAME:
**ENGINEERING & SCIENCE UNIVERSITY
MAGNET SCHOOL**

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

ISSUED FOR PERMIT
April 8, 2014
NOT FOR CONSTRUCTION

PHASE:

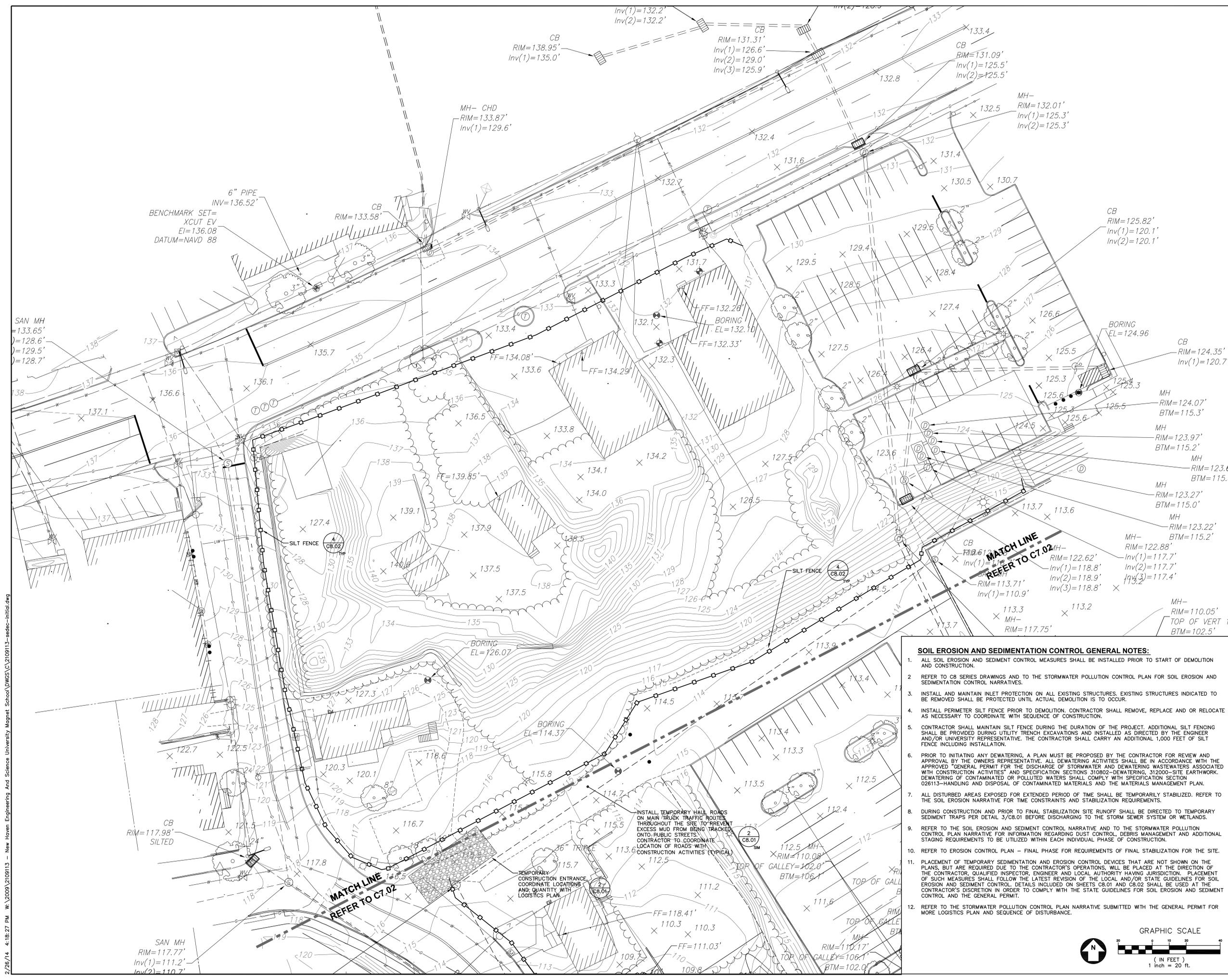
DRAWING TITLE:
**SOIL EROSION
AND SEDIMENT
CONTROL PLAN -
INITIAL PHASE**

SCALE: 1"=20' DATE: FEBRUARY 26, 2014

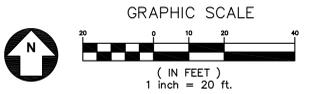
JOB NUMBER: 0938.00 SDE NUMBER: 093-0357 MAG/N

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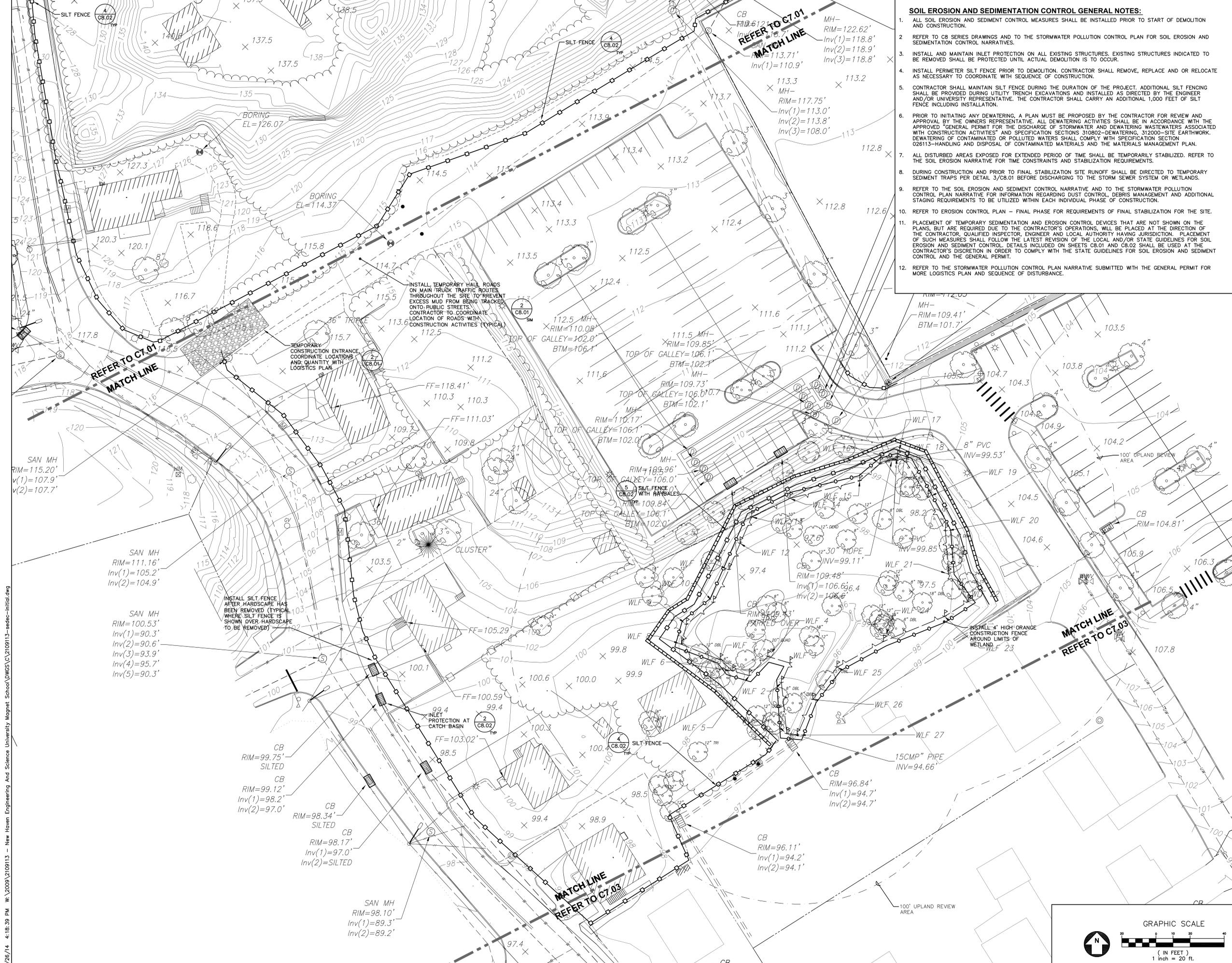
C7.01



- SOIL EROSION AND SEDIMENTATION CONTROL GENERAL NOTES:**
1. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO START OF DEMOLITION AND CONSTRUCTION.
 2. REFER TO CB SERIES DRAWINGS AND TO THE STORMWATER POLLUTION CONTROL PLAN FOR SOIL EROSION AND SEDIMENTATION CONTROL NARRATIVES.
 3. INSTALL AND MAINTAIN INLET PROTECTION ON ALL EXISTING STRUCTURES. EXISTING STRUCTURES INDICATED TO BE REMOVED SHALL BE PROTECTED UNTIL ACTUAL DEMOLITION IS TO OCCUR.
 4. INSTALL PERIMETER SILT FENCE PRIOR TO DEMOLITION. CONTRACTOR SHALL REMOVE, REPLACE AND OR RELOCATE AS NECESSARY TO COORDINATE WITH SEQUENCE OF CONSTRUCTION.
 5. CONTRACTOR SHALL MAINTAIN SILT FENCE DURING THE DURATION OF THE PROJECT. ADDITIONAL SILT FENCING SHALL BE PROVIDED DURING UTILITY TRENCH EXCAVATIONS AND INSTALLED AS DIRECTED BY THE ENGINEER AND/OR UNIVERSITY REPRESENTATIVE. THE CONTRACTOR SHALL CARRY AN ADDITIONAL 1,000 FEET OF SILT FENCE INCLUDING INSTALLATION.
 6. PRIOR TO INITIATING ANY DEWATERING, A PLAN MUST BE PROPOSED BY THE CONTRACTOR FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE. ALL DEWATERING ACTIVITIES SHALL BE IN ACCORDANCE WITH THE APPROVED GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS ASSOCIATED WITH CONSTRUCTION ACTIVITIES AND SPECIFIC SECTIONS 31002-SITE EARTHWORK, DEWATERING OF CONTAMINATED OR POLLUTED WATERS SHALL COMPLY WITH SPECIFICATION SECTION 026113-HANDLING AND DISPOSAL OF CONTAMINATED MATERIALS AND THE MATERIALS MANAGEMENT PLAN.
 7. ALL DISTURBED AREAS EXPOSED FOR EXTENDED PERIOD OF TIME SHALL BE TEMPORARILY STABILIZED. REFER TO THE SOIL EROSION NARRATIVE FOR TIME CONSTRAINTS AND STABILIZATION REQUIREMENTS.
 8. DURING CONSTRUCTION AND PRIOR TO FINAL STABILIZATION SITE RUNOFF SHALL BE DIRECTED TO TEMPORARY SEDIMENT TRAPS PER DETAIL 3/CB.01 BEFORE DISCHARGING TO THE STORM SEWER SYSTEM OR WETLANDS.
 9. REFER TO THE SOIL EROSION AND SEDIMENT CONTROL NARRATIVE AND TO THE STORMWATER POLLUTION CONTROL PLAN NARRATIVE FOR INFORMATION REGARDING DUST CONTROL, DEBRIS MANAGEMENT AND ADDITIONAL STAGING REQUIREMENTS TO BE UTILIZED WITHIN EACH INDIVIDUAL PHASE OF CONSTRUCTION.
 10. REFER TO EROSION CONTROL PLAN - FINAL PHASE FOR REQUIREMENTS OF FINAL STABILIZATION FOR THE SITE.
 11. PLACEMENT OF TEMPORARY SEDIMENTATION AND EROSION CONTROL DEVICES THAT ARE NOT SHOWN ON THE PLANS, BUT ARE REQUIRED DUE TO THE CONTRACTOR'S OPERATIONS, WILL BE PLACED AT THE DIRECTION OF THE CONTRACTOR, QUALIFIED INSPECTOR, ENGINEER AND LOCAL AUTHORITY HAVING JURISDICTION. PLACEMENT OF SUCH MEASURES SHALL FOLLOW THE LATEST REVISION OF THE LOCAL AND/OR STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL. DETAILS INCLUDED ON SHEETS C8.01 AND C8.02 SHALL BE USED AT THE CONTRACTOR'S DISCRETION IN ORDER TO COMPLY WITH THE STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL AND THE GENERAL PERMIT.
 12. REFER TO THE STORMWATER POLLUTION CONTROL PLAN NARRATIVE SUBMITTED WITH THE GENERAL PERMIT FOR MORE LOGISTICS PLAN AND SEQUENCE OF DISTURBANCE.



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- SOIL EROSION AND SEDIMENTATION CONTROL GENERAL NOTES:**
1. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO START OF DEMOLITION AND CONSTRUCTION.
 2. REFER TO CB SERIES DRAWINGS AND TO THE STORMWATER POLLUTION CONTROL PLAN FOR SOIL EROSION AND SEDIMENTATION CONTROL NARRATIVES.
 3. INSTALL AND MAINTAIN INLET PROTECTION ON ALL EXISTING STRUCTURES. EXISTING STRUCTURES INDICATED TO BE REMOVED SHALL BE PROTECTED UNTIL ACTUAL DEMOLITION IS TO OCCUR.
 4. INSTALL PERIMETER SILT FENCE PRIOR TO DEMOLITION. CONTRACTOR SHALL REMOVE, REPLACE AND OR RELOCATE AS NECESSARY TO COORDINATE WITH SEQUENCE OF CONSTRUCTION.
 5. CONTRACTOR SHALL MAINTAIN SILT FENCE DURING THE DURATION OF THE PROJECT. ADDITIONAL SILT FENCING SHALL BE PROVIDED DURING UTILITY TRENCH EXCAVATIONS AND INSTALLED AS DIRECTED BY THE ENGINEER AND/OR UNIVERSITY REPRESENTATIVE. THE CONTRACTOR SHALL CARRY AN ADDITIONAL 1,000 FEET OF SILT FENCE INCLUDING INSTALLATION.
 6. PRIOR TO INITIATING ANY DEWATERING, A PLAN MUST BE PROPOSED BY THE CONTRACTOR FOR REVIEW AND APPROVAL BY THE OWNER'S REPRESENTATIVE. ALL DEWATERING ACTIVITIES SHALL BE IN ACCORDANCE WITH THE APPROVED "GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS ASSOCIATED WITH CONSTRUCTION ACTIVITIES" AND SPECIFICATION SECTIONS 310802-DEWATERING, 312000-SITE EARTHWORK, DEWATERING OF CONTAMINATED OR POLLUTED WATERS SHALL COMPLY WITH SPECIFICATION SECTION 026113-HANDLING AND DISPOSAL OF CONTAMINATED MATERIALS AND THE MATERIALS MANAGEMENT PLAN.
 7. ALL DISTURBED AREAS EXPOSED FOR EXTENDED PERIOD OF TIME SHALL BE TEMPORARILY STABILIZED. REFER TO THE SOIL EROSION NARRATIVE FOR TIME CONSTRAINTS AND STABILIZATION REQUIREMENTS.
 8. DURING CONSTRUCTION AND PRIOR TO FINAL STABILIZATION SITE RUNOFF SHALL BE DIRECTED TO TEMPORARY SEDIMENT TRAPS PER DETAIL 3/CB.01 BEFORE DISCHARGING TO THE STORM SEWER SYSTEM OR WETLANDS.
 9. REFER TO THE SOIL EROSION AND SEDIMENT CONTROL NARRATIVE AND TO THE STORMWATER POLLUTION CONTROL PLAN NARRATIVE FOR INFORMATION REGARDING DUST CONTROL, DEBRIS MANAGEMENT AND ADDITIONAL STAGING REQUIREMENTS TO BE UTILIZED WITHIN EACH INDIVIDUAL PHASE OF CONSTRUCTION.
 10. REFER TO EROSION CONTROL PLAN - FINAL PHASE FOR REQUIREMENTS OF FINAL STABILIZATION FOR THE SITE.
 11. PLACEMENT OF TEMPORARY SEDIMENTATION AND EROSION CONTROL DEVICES THAT ARE NOT SHOWN ON THE PLANS, BUT ARE REQUIRED DUE TO THE CONTRACTOR'S OPERATIONS, WILL BE PLACED AT THE DIRECTION OF THE CONTRACTOR, QUALIFIED INSPECTOR, ENGINEER AND LOCAL AUTHORITY HAVING JURISDICTION. PLACEMENT OF SUCH MEASURES SHALL FOLLOW THE LATEST REVISION OF THE LOCAL AND/OR STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL. DETAILS INCLUDED ON SHEETS CB.01 AND CB.02 SHALL BE USED AT THE CONTRACTOR'S DISCRETION IN ORDER TO COMPLY WITH THE STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL AND THE GENERAL PERMIT.
 12. REFER TO THE STORMWATER POLLUTION CONTROL PLAN NARRATIVE SUBMITTED WITH THE GENERAL PERMIT FOR MORE LOGISTICS PLAN AND SEQUENCE OF DISTURBANCE.

SVIGALS + PARTNERS
 84 Orange Street • New Haven, Connecticut
 203.786.5110 • www.svigals.com

BVM integrated services
 50 Griffin Road South
 Bloomfield, CT 06002
 Tel: (860) 286-9771
 www.bvm.com

CIVIL, STRUCTURAL, MECHANICAL,
 ELECTRICAL, TECHNOLOGY AND COMMISSIONING

KEYPLAN

REVISION LOG:

No.	Description	Date

PROJECT NAME:
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL

500 BOSTON POST ROAD
 WEST HAVEN, CONNECTICUT 06516

ISSUED FOR PERMIT
 April 8, 2014
 NOT FOR CONSTRUCTION

PHASE:

DRAWING TITLE:
SOIL EROSION AND SEDIMENT CONTROL PLAN - INITIAL PHASE

SCALE: 1"=20' DATE: FEBRUARY 26, 2014

JOB NUMBER: 0938.00 SDE NUMBER: 093-0357 MAG/N

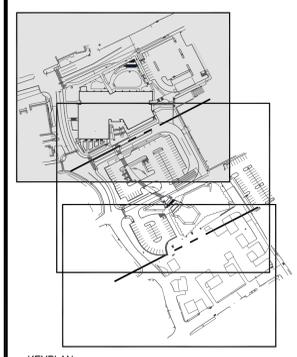
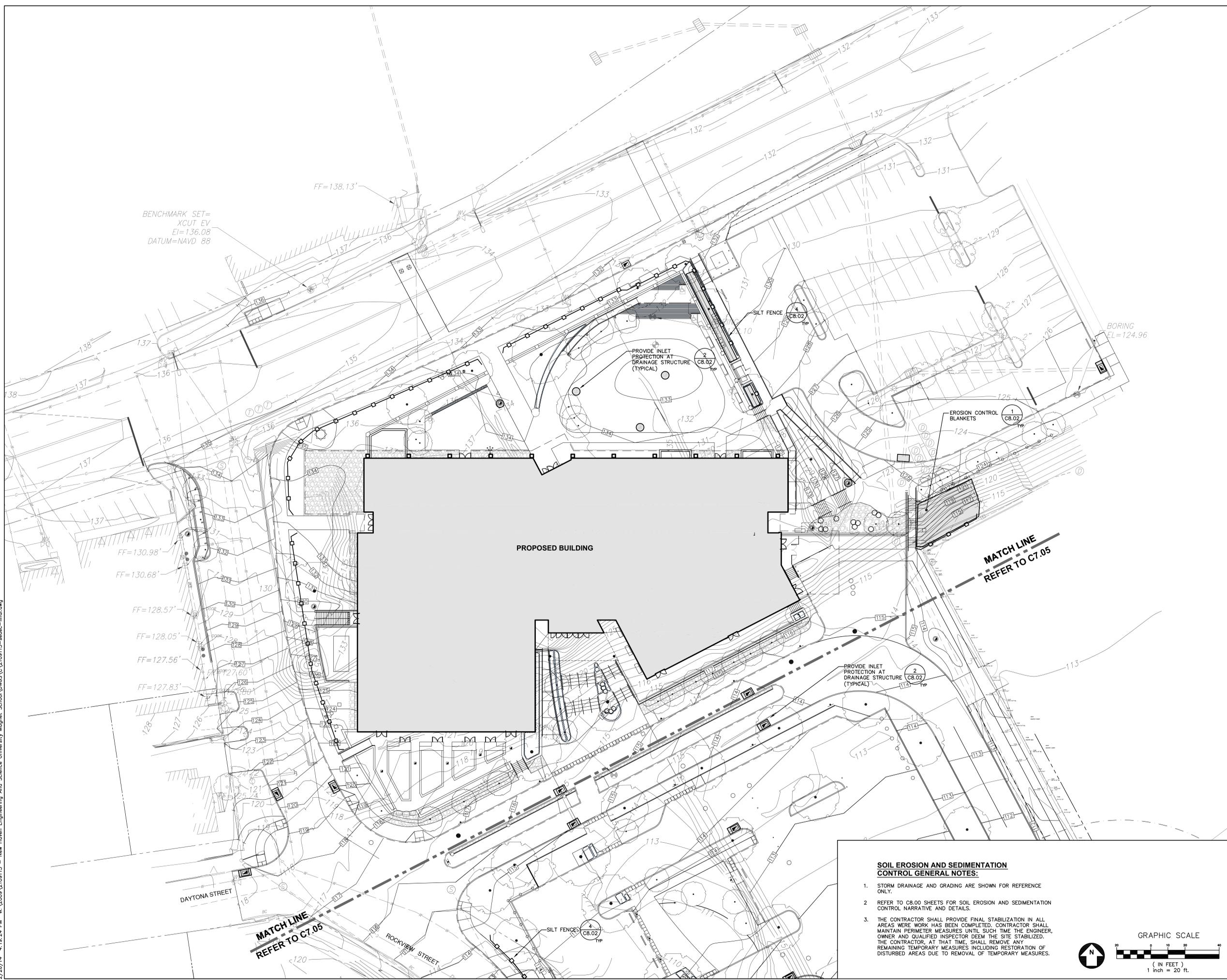
DRAWING NUMBER:

C7.02

GRAPHIC SCALE
 (IN FEET)
 1 Inch = 20 ft.

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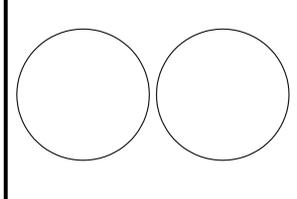
No.	Description	Date

PROJECT NAME:
**ENGINEERING & SCIENCE UNIVERSITY
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500 BOSTON POST ROAD
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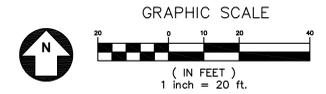
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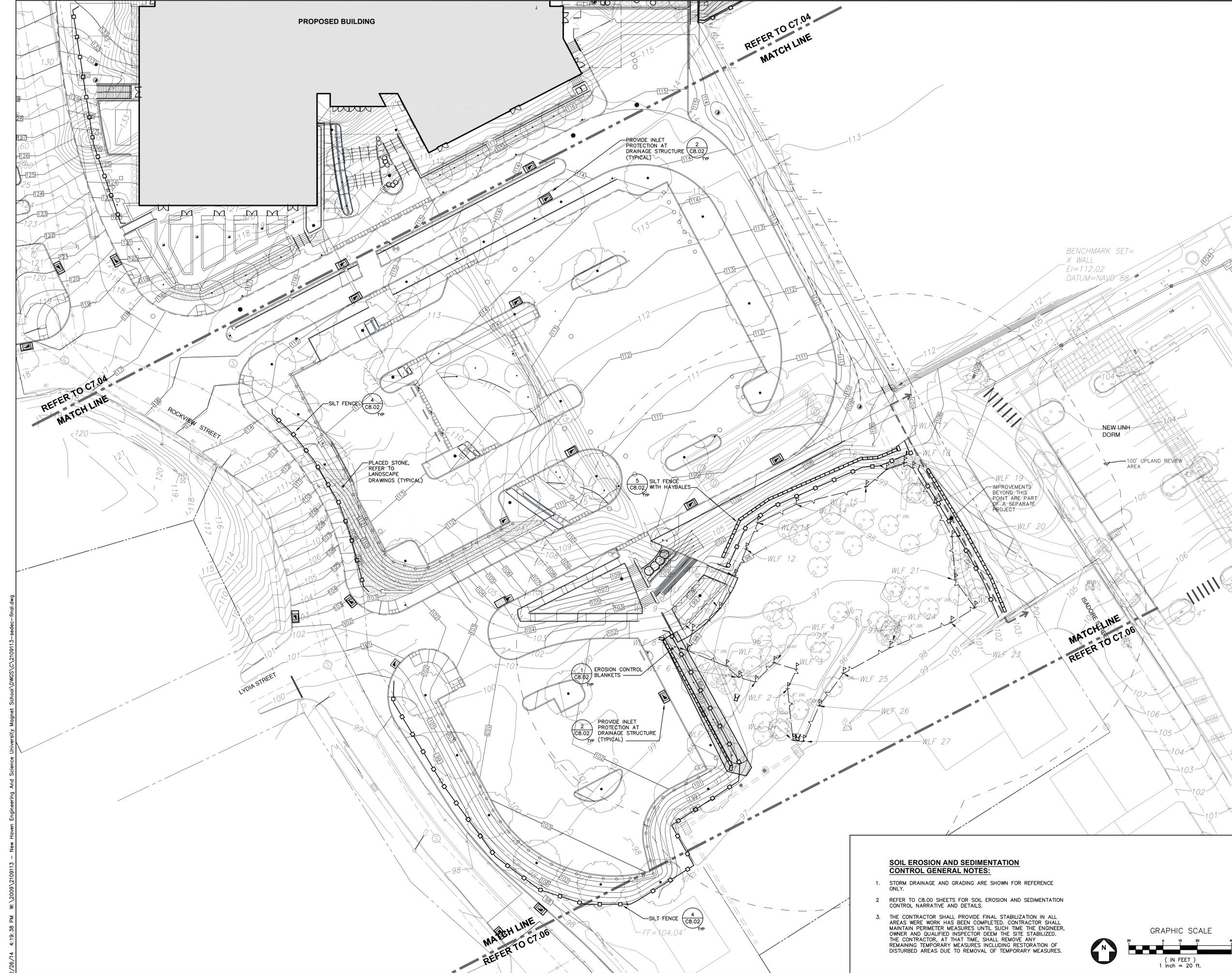
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**SOIL EROSION AND SEDIMENT
 CONTROL PLAN -
 FINAL PHASE**

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JOB NUMBER: 0938.00	SDE NUMBER: 093-0357 MAG/N
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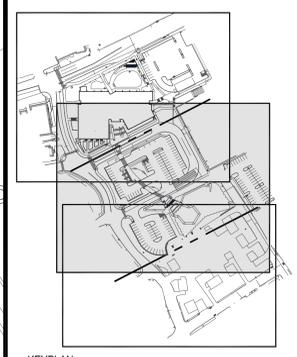
- SOIL EROSION AND SEDIMENTATION
 CONTROL GENERAL NOTES:**
1. STORM DRAINAGE AND GRADING ARE SHOWN FOR REFERENCE ONLY.
 2. REFER TO C8.00 SHEETS FOR SOIL EROSION AND SEDIMENTATION CONTROL NARRATIVE AND DETAILS.
 3. THE CONTRACTOR SHALL PROVIDE FINAL STABILIZATION IN ALL AREAS WHERE WORK HAS BEEN COMPLETED. CONTRACTOR SHALL MAINTAIN PERIMETER MEASURES UNTIL SUCH TIME THE ENGINEER, OWNER AND QUALIFIED INSPECTOR DEEM THE SITE STABILIZED. THE CONTRACTOR, AT THAT TIME, SHALL REMOVE ANY REMAINING TEMPORARY MEASURES INCLUDING RESTORATION OF DISTURBED AREAS DUE TO REMOVAL OF TEMPORARY MEASURES.



C7.04



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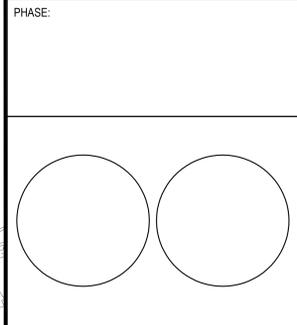
KEYPLAN

REVISION LOG:

No.	Description	Date

PROJECT NAME:
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL
 500 BOSTON POST ROAD
 WEST HAVEN, CONNECTICUT 06516

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DRAWING TITLE:
SOIL EROSION AND SEDIMENT CONTROL PLAN - FINAL PHASE

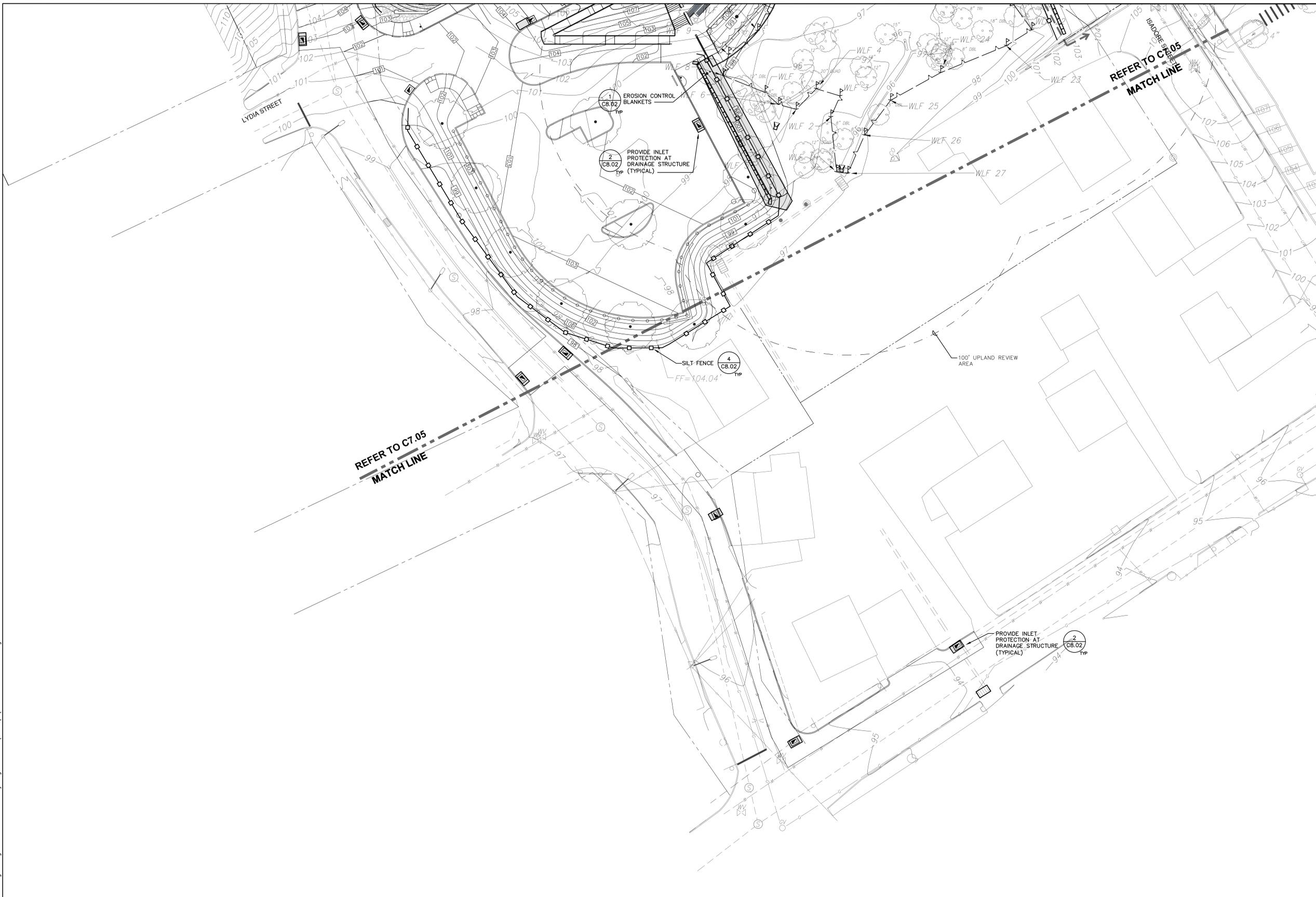
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JOB NUMBER: 0938.00	SDE NUMBER: 093-0357 MAG/N
DRAWING NUMBER:	

SOIL EROSION AND SEDIMENTATION CONTROL GENERAL NOTES:

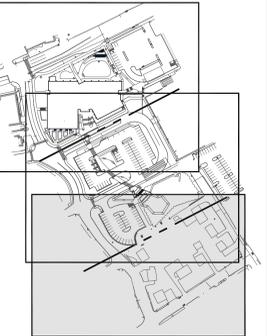
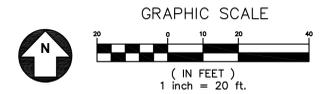
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GRAPHIC SCALE
 (IN FEET)
 1 inch = 20 ft.

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- SOIL EROSION AND SEDIMENTATION CONTROL GENERAL NOTES:**
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KEYPLAN

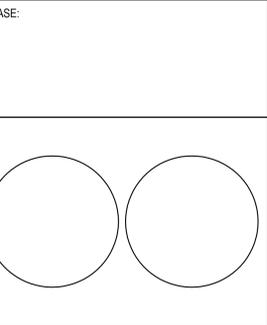
REVISION LOG:

No.	Description	Date

PROJECT NAME:
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 MAGNET SCHOOL**

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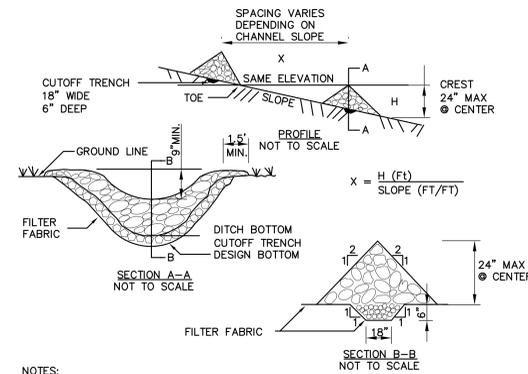


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SOIL EROSION AND SEDIMENTATION CONTROL PLAN - FINAL PHASE

SCALE: 1"=20'	DATE: FEBRUARY 26, 2014
JOB NUMBER: 0938.00	SDE NUMBER: 093-0357 MAG/N

DRAWING NUMBER:
C7.06

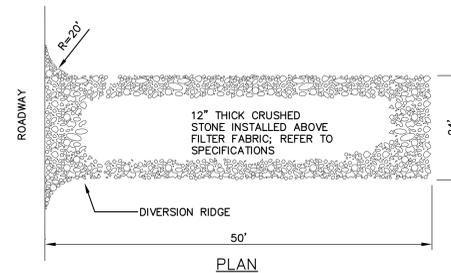
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NOTES:

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
6. MAXIMUM DRAINAGE AREA 2 ACRES.

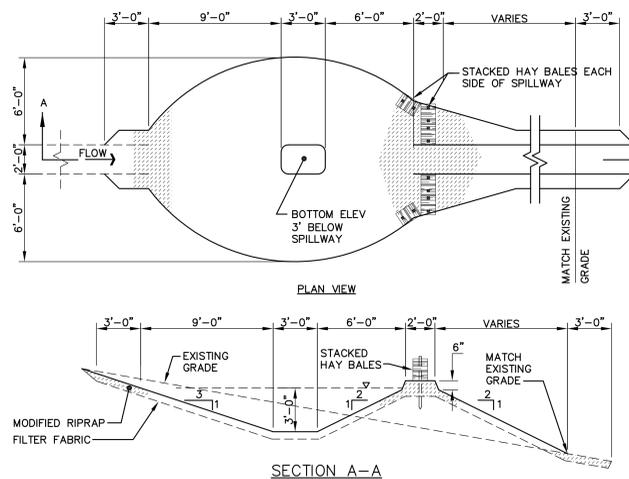
1 CHECK DAM
C8.01 NOT TO SCALE



NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

2 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT
C8.01 NOT TO SCALE



NOTES:

1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS OR OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
3. VOLUME OF SEDIMENT STORAGE SHALL BE 3600 CUBIC FEET PER ACRE OF CONTRIBUTORY DRAINAGE.
4. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND STABILIZED.
5. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
6. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND SEDIMENT ARE CONTROLLED.
7. TEMPORARY SEDIMENT TRAPPING DEVICES SHALL NOT BE REMOVED UNTIL PERMANENT STABILIZATION IS ESTABLISHED IN ALL CONTRIBUTORY DRAINAGE AREAS.
8. MAXIMUM DRAINAGE AREA TO BE 5 ACRES OR LESS.

3 TYPICAL SEDIMENTATION TRAP
C8.01 NOT TO SCALE

SITE EROSION CONTROL CHECKLIST			
PROJECT:			BY:
LOCATION:			DATE:
AREA INSPECTED:			
	OVERALL CONDITION	NEED REPAIR	G=GOOD, F=FAIR, P=POOR, Y=YES, N=NO COMMENTS:
SILT FENCE	G F P Y N		
CONTINUOUS BERM	G F P Y N		
DRAIN/INLET PROTECTION	G F P Y N		
TREE PROTECTION	G F P Y N		
TOPSOILING	G F P Y N		
LAND GRADING	G F P Y N		
SURFACE ROUGHENING	G F P Y N		
DUST CONTROL	G F P Y N		
TEMPORARY SEEDING	G F P Y N		
PERMANENT SEEDING	G F P Y N		
SODDING	G F P Y N		
LANDSCAPE PLANING	G F P Y N		
TEMPORARY SOIL PROTECTION	G F P Y N		
MULCH FOR SEED	G F P Y N		
LANDSCAPE MULCH	G F P Y N		
TEMPORARY EROSION CONTROL BLANKET	G F P Y N		
STONE SLOPE PROTECTION	G F P Y N		
RETAINING WALLS	G F P Y N		
RIP RAP	G F P Y N		
CHANNEL GRADE STABILIZATION STRUCTURE	G F P Y N		
TEMPORARY LINED CHUTE	G F P Y N		
TEMPORARY PIPE SLOPE DRAIN	G F P Y N		
VEGETATED WATERWAY	G F P Y N		
TEMPORARY LINED CHANNEL	G F P Y N		
PERMANENT LINED WATERWAY	G F P Y N		
TEMPORARY FILL BERM	G F P Y N		
WATER BAR	G F P Y N		
TEMPORARY DIVERSION	G F P Y N		
SUBSURFACE DRAIN	G F P Y N		
DETENTION BASIN	G F P Y N		
LEVEL SPREADER	G F P Y N		
OUTLET PROTECTION	G F P Y N		
STONE CHECK DAM	G F P Y N		
TEMPORARY SEDIMENT BASIN	G F P Y N		
TEMPORARY SEDIMENT TRAP	G F P Y N		
HAY BALE BARRIER	G F P Y N		
GEOTEXTILE SILT FENCE	G F P Y N		
VEGETATIVE FILTER	G F P Y N		
CONSTRUCTION ENTRANCE	G F P Y N		
PORTABLE SEDIMENT TANK	G F P Y N		
DEWATERING OF EARTH MATERIALS	G F P Y N		
ARE CONTROLLED RELEASES OF MUD OR MUDDY WATER FROM THE SITE EVIDENT?			YES NO
IF YES, WHAT CORRECTIVE ACTIONS ARE RECOMMENDED?			
ARE DEPOSITS OF SEDIMENT EVIDENT ON ADJACENT OFF-SITE STREETS OR PROPERTIES?			YES NO
IF YES, WHAT CORRECTIVE ACTIONS ARE RECOMMENDED?			
	OVERALL CONDITION	NEED REPAIR	G=GOOD, F=FAIR, P=POOR, Y=YES, N=NO COMMENTS:
STAGING REMOVAL OF VEGETATION	G F P Y N		
NEW VEGETATION ESTABLISHMENT	G F P Y N		
MULCH AND/OR BFM PROTECTION	G F P Y N		
SOIL BINDER PROTECTION	G F P Y N		
HILLSIDE RECP'S	G F P Y N		
DRAINAGE CHANNEL ECB'S	G F P Y N		
RIP RAP	G F P Y N		
ADDITIONAL COMMENTS:			
INSPECTION COMPLETED ON:			BY:
I CERTIFY THIS INSPECTION WAS COMPLETED BY MYSELF OR UNDER MY SUPERVISION:			
DATE:			



KEYPLAN

REVISION LOG:

No.	Description	Date

PROJECT NAME:

ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

ISSUED FOR PERMIT
April 8, 2014
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PHASE:

DRAWING TITLE:

SOIL EROSION AND SEDIMENT CONTROL DETAILS

SCALE:

NONE

DATE:

FEBRUARY 26, 2014

JOB NUMBER:

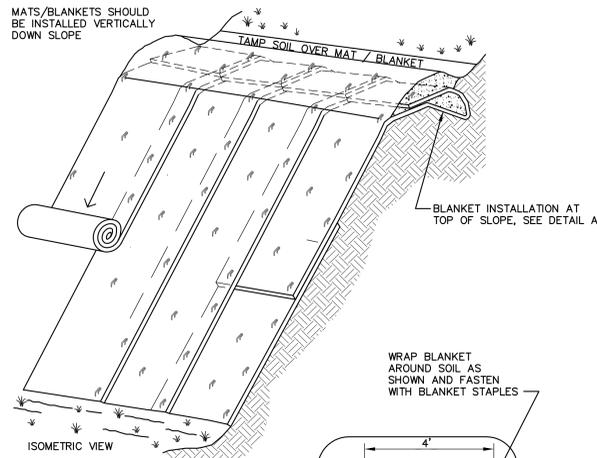
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SDE NUMBER:

093-0357 MAG/N

DRAWING NUMBER:

C8.01

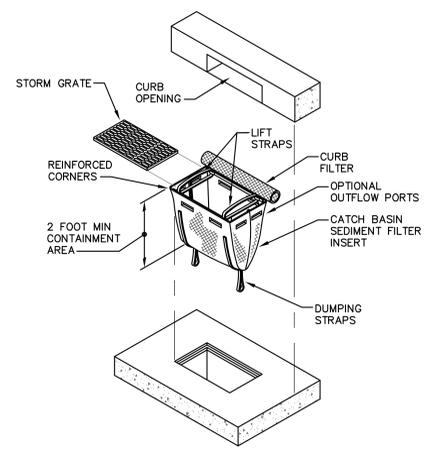


TYPICAL SLOPE SOIL STABILIZATION

- NOTES:**
- SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
 - APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
 - LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
 - REFER TO SPECIFICATIONS FOR INSTALLATION AND ADDITIONAL INFORMATION.
 - PROVIDE BLANKET APPLICABLE FOR SLOPES 1'V:2'H OR STEEPER WITH A DURATION OF 12 MONTHS

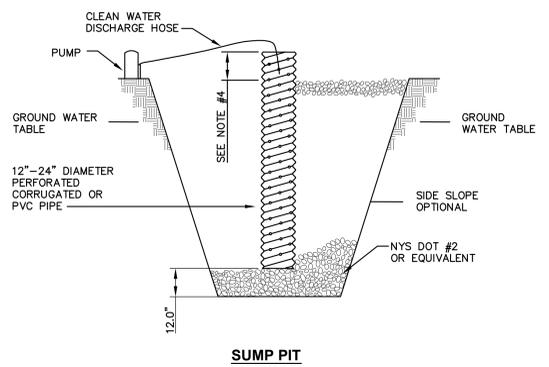
EROSION BLANKETS & TURF REINFORCEMENT MATS SLOPE INSTALLATION

1
C8.02 NOT TO SCALE



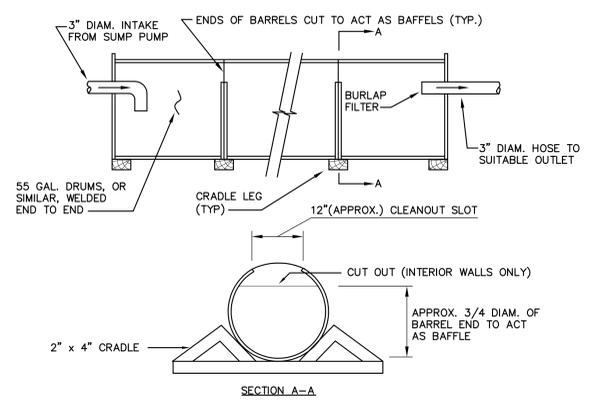
2 INLET PROTECTION DETAIL AT CATCH BASIN

C8.02 NOT TO SCALE



SUMP PIT

- NOTES:**
- PIT DIMENSIONS ARE OPTIONAL.
 - THE STANDPIPE SHOULD BE CONSTRUCTED BY PERFORATING A 12-24" DIAMETER CORRUGATED OR PVC PIPE.
 - A BASE OF 2" AGGREGATE SHOULD BE PLACED IN THE PIT TO A DEPTH OF 12". AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE SHOULD BE BACKFILLED WITH 2" AGGREGATE.
 - THE STANDPIPE SHOULD EXTEND 12-18" ABOVE THE LIP OF THE PIT.
 - IF DISCHARGE WILL BE PUMPED DIRECTLY TO A STORM DRAINAGE SYSTEM, THE STANDPIPE SHOULD BE WRAPPED WITH FILTERCLOTH BEFORE INSTALLATION. IF DESIRED, 1/4"-1/2" HARDWARE CLOTH MAY BE PLACED AROUND THE STANDPIPE, PRIOR TO ATTACHING THE FILTERCLOTH.

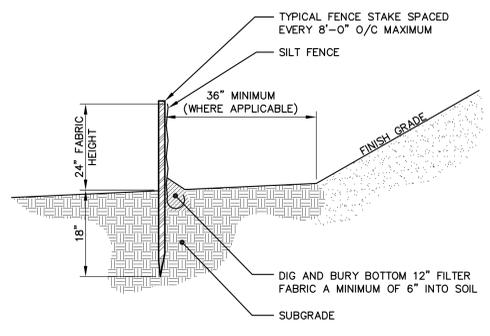


PORTABLE SEDIMENT TANK

- NOTES:**
- CLEAN OUT THE SEDIMENT TANK WHEN ONE THIRD (1/3) FILLED WITH SILT.
 - STEEL DRUMS ARE USED AS AN EXAMPLE DUE TO THEIR READY AVAILABILITY. ANY TANKS MAY BE USED, PROVIDING THAT THE VOLUME REQUIREMENTS ARE MET.
 - ALL SEDIMENT COLLECTED IN THE TANK SHALL BE DISPOSED OF IN A SEDIMENT TRAPPING DEVICE OR AS APPROVED BY THE INSPECTOR.

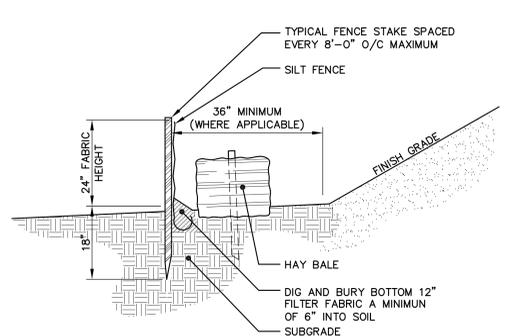
3 DEWATERING DEVICES

C8.02 NOT TO SCALE



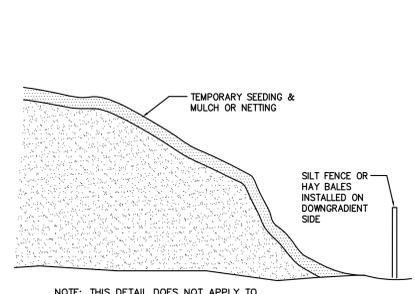
4 TYPICAL SILT FENCE

C8.02 NOT TO SCALE



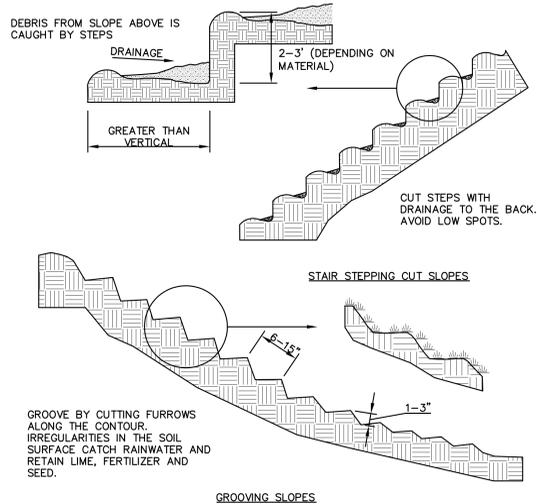
5 TYPICAL SILT FENCE WITH HAY BALES

C8.02 NOT TO SCALE



6 TEMPORARY STOCKPILE DETAIL

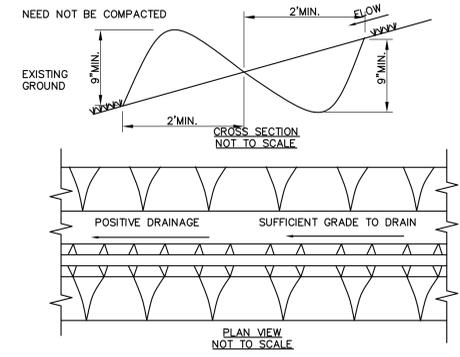
C8.02 NOT TO SCALE



- NOTES:**
- PROVIDE WHERE SLOPES EXCEED 15' VERTICALLY AND ARE STEEPER THAN 3:1 (HORIZONTAL:VERTICAL)

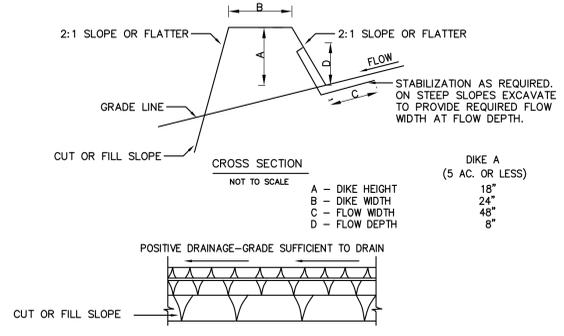
7 SURFACE ROUGHENING

C8.02 NOT TO SCALE



PERIMETER DIKE OR SWALE

- NOTES:**
- ALL PERIMETER DIKE/SWALE SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
 - DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
 - DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
 - THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED IN THE STANDARD.
 - STABILIZATION OF THE AREA DISTURBED BY THE DIKE AND SWALE SHALL BE DONE IN ACCORDANCE WITH THE STANDARD AND SPECIFICATIONS FOR TEMPORARY SEEDING AND MULCHING, AND SHALL BE DONE WITHIN 10 DAYS.
 - PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.
 - MAXIMUM DRAINAGE AREA LIMIT: 2 ACRES



EARTH DIKE

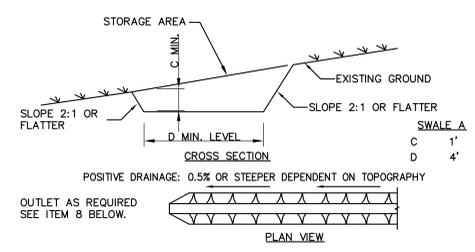
- NOTES:**
- ALL DIKES SHALL BE COMPACTED BY EARTH-MOVING EQUIPMENT.
 - ALL DIKES SHALL HAVE POSITIVE DRAINAGE TO AN OUTLET.
 - TOP WIDTH MAY BE WIDER AND SIDE SLOPES BE FLATTER IF DESIRED TO FACILITATE CROSSING BY CONSTRUCTION TRAFFIC.
 - FIELD LOCATION SHOULD BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.
 - EARTH DIKES SHALL HAVE AN OUTLET THAT FUNCTIONS WITH A MINIMUM OF EROSION. RUNOFF SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A SEDIMENT TRAP OR SEDIMENT BASIN WHERE EITHER THE DIKE CHANNEL OR THE DRAINAGE AREA ABOVE THE DIKE ARE NOT ADEQUATELY STABILIZED.
 - STABILIZATION SHALL BE AS PER THE FLOW CHANNEL STABILIZATION CHART BELOW:

TYPE OF TREATMENT	CHANNEL GRADE ¹	FLOW CHANNEL A (< 5 Ac.)
1	0.5-3.0%	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH
3	5.1-8.0%	SEED AND COVER WITH RECP, SOD, OR LINE WITH PLASTIC OR 2 INCH STONE
4	8.1-20.0%	LINE WITH 4-8 INCH STONE OR RECYCLED CONCRETE EQUIVALENT ² OR GEOTEXTILE

¹ IN HIGHLY ERODIBLE SOILS, AS DEFINED BY THE LOCAL APPROVING AGENCY, REFER TO THE NEXT HIGHER SLOPE GRADE FOR TYPE OF STABILIZATION.
² RECYCLED CONCRETE EQUIVALENT SHALL BE CONCRETE BROKEN INTO THE REQUIRED SIZE, AND SHALL CONTAIN NO STEEL REINFORCEMENT.

8 RUNOFF DIVERSION MEASURES

C8.02 NOT TO SCALE



TEMPORARY SWALE

- ALL TEMPORARY SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.
 - DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
 - DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITY.
 - ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
 - THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
 - FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
 - ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
 - STABILIZATION SHALL BE AS PER THE FLOW CHANNEL STABILIZATION CHART BELOW:
- | TYPE OF TREATMENT | CHANNEL GRADE | A (< 5 AC. OR LESS) |
|-------------------|---------------|---------------------------------------|
| 1 | 0.5-3.0% | SEED AND STRAW MULCH |
| 2 | 3.1-5.0% | SEED AND STRAW MULCH |
| 3 | 5.1-8.0% | SEED AND COVER WITH RECP |
| 4 | 8.1-20.0% | LINED WITH 4-8" RIP-RAP OR GEOTEXTILE |
- PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

KEYPLAN

REVISION LOG:

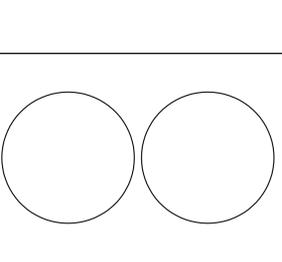
No.	Description	Date

PROJECT NAME:
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL

500 BOSTON POST ROAD
 WEST HAVEN, CONNECTICUT 06516

ISSUED FOR PERMIT
 April 8, 2014
 NOT FOR CONSTRUCTION

PHASE:



DRAWING TITLE:
SOIL EROSION AND SEDIMENT CONTROL DETAILS

SCALE:	DATE:
AS NOTED	FEBRUARY 26, 2014
JOB NUMBER:	SDE NUMBER:
0938.00	093-0357 MAG/N
DRAWING NUMBER:	



Appendix E:

Water Quality Flow Calculations

Water Quality Volume - HDS01

1. Compute Volumetric Runoff Coefficient, R

$R = 0.05 + 0.009(i)$ where (i) is percent impervious cover, i.e. use 80 for 80% impervious cover

$$i = \frac{\text{Impervious Area (ac)}}{\text{Total Area (ac)}} = \frac{1.360 \text{ acres}}{1.780 \text{ acres}} = 76 \%$$

2. Compute Water Quality Volume, WQV

$$WQV = \frac{(1") (R) (A)}{12} \quad \text{where: } R = \text{volumetric runoff coefficient} = 0.05 + 0.009(i)$$

A = site area in acres

$$WQV = \frac{(1") (0.74) (1.78)}{12} = \boxed{0.109} \text{ ac-ft}$$

CT DEP Stormwater Quality
Manual (pg. 7-3)

$$\boxed{4766} \text{ ft}^3$$

Water Quality Flow - HDS01

1. Compute the water quality flow (WQF) for off-line stormwater treatment

- a. Compute the runoff depth, Q

$$Q = \frac{[WQV (\text{ac-ft})] \times [12 (\text{in/ft})]}{\text{Drainage Area (acres)}} = \frac{0.11 \times 12}{1.78} = 0.74 \text{ in}$$

- b. Compute the NRCS Runoff Curve Number (CN)

$$CN = \frac{1000}{[10 + 5P + 10Q - 10(Q^2 + 1.25QP)^{1/2}]} \quad P = 1 (\text{in})$$

$$CN = \frac{1000}{10.27} = 97$$

- c. Read initial abstraction, I_a (Table 4-1 in Chapter 4, TR-55)

- f. Compute water quality flow (WQF)

- d. Compute, I_a / P

$$I_a / P = 0.062$$

- e. Read Unit Peak Discharge, q_u (Exhibit 4-III in Chapter 4, TR-55)

$$WQF = (q_u) (A) (Q)$$

For T_c **0.08 hrs** & $I_a / P = 0.062$

$$q_u = 700 \text{ csm/in (Type III Storm)}$$

$$WQF = \boxed{1.44} \text{ cfs}$$



BVH
integrated
services

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Tel: (860) 286-9171
Fax: (860) 242-0236

JOB NO.: 21-09-113
CLIENT: ESUMS
SUBJECT: Water Quality Volume & Flow for HDS01
PREPARED BY: DCC DATE: 04/12/13 CHK BY: TSD

Water Quality Volume - HDS02

1. Compute Volumetric Runoff Coefficient, R

$R = 0.05 + 0.009(i)$ where (i) is percent impervious cover, i.e. use 80 for 80% impervious cover

$$i = \frac{\text{Impervious Area (ac)}}{\text{Total Area (ac)}} = \frac{1.090 \text{ acres}}{1.390 \text{ acres}} = 78 \%$$

2. Compute Water Quality Volume, WQV

$$WQV = \frac{(1") (R) (A)}{12} \quad \text{where: } R = \text{volumetric runoff coefficient} = 0.05 + 0.009(i)$$

A = site area in acres

$$WQV = \frac{(1") (0.76) (1.39)}{12} = \boxed{0.088} \text{ ac-ft}$$

CT DEP Stormwater Quality
Manual (pg. 7-3)

$$\boxed{3813} \text{ ft}^3$$

Water Quality Flow - HDS02

1. Compute the water quality flow (WQF) for off-line stormwater treatment

- a. Compute the runoff depth, Q

$$Q = \frac{[WQV (\text{ac-ft})] \times [12 (\text{in/ft})]}{\text{Drainage Area (acres)}} = \frac{0.09 \times 12}{1.39} = 0.76 \text{ in}$$

- b. Compute the NRCS Runoff Curve Number (CN)

$$CN = \frac{1000}{[10 + 5P + 10Q - 10(Q^2 + 1.25QP)^{1/2}]} \quad P = 1 (\text{in})$$

$$CN = \frac{1000}{10.25} = 98$$

- c. Read initial abstraction, I_a (Table 4-1 in Chapter 4, TR-55)

- f. Compute water quality flow (WQF)

- d. Compute, I_a / P

$$I_a / P = 0.041$$

- e. Read Unit Peak Discharge, q_u (Exhibit 4-III in Chapter 4, TR-55)

$$WQF = (q_u) (A) (Q)$$

For T_c 0.08 hrs & $I_a / P = 0.041$

$$q_u = 700 \text{ csm/in (Type III Storm)}$$

$$WQF = \boxed{1.15} \text{ cfs}$$



BVH
integrated
services

50 Griffin Road South
Bloomfield, CT 06002
Tel: (860) 286-9171
Fax: (860) 242-0236

JOB NO.: 21-09-113
CLIENT: ESUMS
SUBJECT: Water Quality Volume & Flow for HDS02
PREPARED BY: DCC DATE: 04/12/13 CHK BY: TSD

Water Quality Volume - HDS03

1. Compute Volumetric Runoff Coefficient, R

$R = 0.05 + 0.009(i)$ where (i) is percent impervious cover, i.e. use 80 for 80% impervious cover

$$i = \frac{\text{Impervious Area (ac)}}{\text{Total Area (ac)}} = \frac{0.300 \text{ acres}}{0.370 \text{ acres}} = 81 \%$$

2. Compute Water Quality Volume, WQV

$$WQV = \frac{(1") (R) (A)}{12} \quad \text{where: } R = \text{volumetric runoff coefficient} = 0.05 + 0.009(i)$$

$$WQV = \frac{(1") (0.78) (0.37)}{12} = \boxed{0.024} \text{ ac-ft}$$

CT DEP Stormwater Quality Manual (pg. 7-3)

$$\boxed{1047} \text{ ft}^3$$

Water Quality Flow - HDS03

1. Compute the water quality flow (WQF) for off-line stormwater treatment

- a. Compute the runoff depth, Q

$$Q = \frac{[WQV (\text{ac-ft})] \times [12 (\text{in/ft})]}{\text{Drainage Area (acres)}} = \frac{0.02 \times 12}{0.37} = 0.78 \text{ in}$$

- b. Compute the NRCS Runoff Curve Number (CN)

$$CN = \frac{1000}{[10 + 5P + 10Q - 10(Q^2 + 1.25QP)^{1/2}]} \quad P = 1 (\text{in})$$

$$CN = \frac{1000}{10.22} = 98$$

- c. Read initial abstraction, I_a (Table 4-1 in Chapter 4, TR-55)

- d. Compute, I_a / P

$$I_a = 0.041$$

- e. Read Unit Peak Discharge, q_u (Exhibit 4-III in Chapter 4, TR-55)

For T_c **0.08 hrs** & $I_a / P = 0.041$

$$q_u = 700 \text{ csm/in (Type III Storm)}$$

- f. Compute water quality flow (WQF)

$$WQF = (q_u) (A) (Q)$$

$$WQF = \boxed{0.32} \text{ cfs}$$



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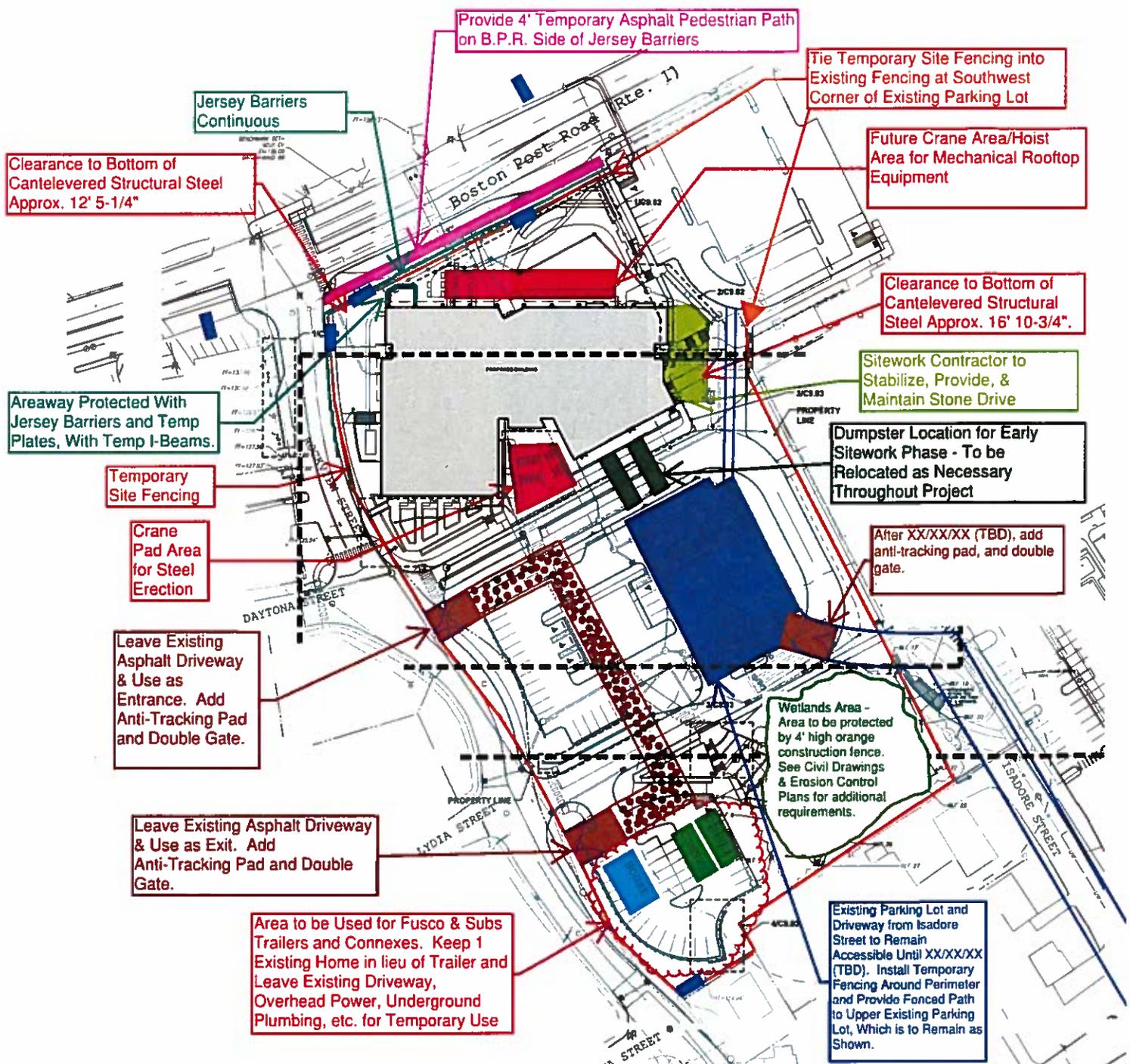
50 Griffin Road South
Bloomfield, CT 06002
Tel: (860) 286-9171
Fax: (860) 242-0236

JOB NO.: 21-09-113
CLIENT: ESUMS
SUBJECT: Water Quality Volume & Flow for HDS03
PREPARED BY: DCC DATE:04/12/13 CHK BY: TSD



Appendix F:

Site Logistics and Disturbance Sequence Plans



NOTES :

1. There will be no entering or exiting from Boston Post Road. All construction traffic shall enter and exit through the designated gated entrances along Rockview Street. The Isadore Street gate is not intended for daily use.
2. No parking onsite other than authorized personnel as determined by Fusco Corp.

 = Signs Directing ESMUS Construction Traffic Down Rockview Street



February 27, 2014

Svigals & Partners, LLP
84 Orange Street
New Haven, CT 06510

RE: Engineering & Science University Magnet School

Dear Julia,

We offer the following in support of the application for a Special Permit for Resource Removal, Filling and Grading. The project is currently scheduled to start in Spring of 2014 with abatement and demolition of the existing structures on site. Incidental supporting activities will be performed at that time, such as erosion and sedimentation control measures, wetland delineation and protection, installation of a six foot high chain link fence at the property perimeter, and construction entrance gates with anti-tracking pads along Rockview Street. Bid packages will specify that construction employee parking is not permitted along local streets and that all construction related deliveries shall utilize Boston Post Road and enter and depart from the Rockview Street construction gates in order to minimize the impact to the adjoining residential neighborhoods.

In Summer of 2014 we are scheduled to start rock blasting and excavation. Thorough pre-blasting surveys of the surrounding properties will be conducted and filed prior to starting the blasting operations. Bid packages will state that stock piling of large quantities of soil or rock is not permitted and that all excavated materials shall be exported from the site. Rock crushing and processing will not occur on site. All trucks leaving the site will have their loads covered and will exit over anti-tracking pads. Dust will be controlled with water as necessary during any soil disturbance activity. It is anticipated that the mass rock and earth removal from the site will be completed within 12 months.

To minimize dust and sediment erosion during the construction of the building, we plan to leave the existing parking lot in place and utilize it as a laydown, storage and work area. We are scheduled to complete the building erection and façade work in Summer of 2015, at which time we will remove the existing parking lot and commence with grading and resurfacing the southern portion of the site. We anticipate completing the landscaping and site improvements by late Spring of 2016. Project completion and turnover is currently scheduled for Summer of 2016.

Very truly yours,

A handwritten signature in black ink, appearing to read "Blatt", written over a white background.

Brian A. Calvert
Vice President

cc: Carolina Cudemus - Gilbane



Appendix G:
Specifications

SECTION 02 61 13

HANDLING AND DISPOSAL OF CONTAMINATED MATERIALS

PART 1 GENERAL

1.01 SCOPE OF WORK

- A. This Section provides requirements for the storage, on-site handling, transport, and disposal of excavated materials, including fill and native soils. The site soil has been characterized, and the selected Contractor shall make every effort to secure off-site soil disposal facility options with the existing soil data.
- B. The Contractor shall furnish all labor, materials, equipment, and incidentals required to conduct the work of this Section, including testing, segregating, stockpiling, loading, transporting, handling, and disposal of all excavated material, in accordance with the Contract Documents and all applicable Federal, State, and local regulations. The work of this Section shall also include obtaining approvals from permitted soil disposal or recycling facilities; obtaining and paying for permits, not obtained by the Owner; and paying all fees required to perform the work. Further details are provided herein.
- C. Contractor's bid shall include unit costs for loading, transportation and off-site disposal of the following types of waste:
 - 1. Non-hazardous contaminated soil and water
 - 2. Non-hazardous polluted soil
 - 3. Non-hazardous contaminated debris including: concrete debris, asphalt debris, and miscellaneous debris.
- D. For the purpose of this Section, "non-hazardous contaminated materials" are materials including, but not limited to soil, sediment, groundwater, and debris that contain chemical concentrations exceeding the applicable Connecticut Department of Energy and Environmental Protection (DEEP) Remediation Standard Regulations (RSRs).
- E. For the purpose of this Section, "non-hazardous polluted soil" is soil affected by a release of a non-naturally occurring substance at a concentration above the analytical detection limit but below the applicable RSRs.
- F. All soils and groundwater are deemed contaminated or polluted unless sample results indicate otherwise.
- G. For the purpose of this Section, "environmentally unsuitable for reuse" means materials including, but not limited to: characteristic hazardous waste; contaminated material, and material having objectionable odors including petroleum or synthetic odors.
- H. All work shall be performed in accordance with the Contract Documents for the project and applicable Federal, State, and local regulations.
- I. The Contractor will be responsible for the health and safety of his workers and his Subcontractors in accordance with Occupational Safety and Health Administration (OSHA) regulations, including Title 29 CFR Part 1910.120 and specification Section 01 35 29.13.
- J. The Contractor shall accept the site "as-is" and shall be deemed to have inspected the site and reviewed all drawings, reports, and documents applicable to this work prior to submitting a bid.
- K. The Contractor's work may include contact with, and handling of, contaminated materials.
- L. Additional undiscovered environmental conditions may potentially exist at the site including, but not limited to: underground piping; underground storage tanks (USTs); areas of contamination; and previously unidentified soil and groundwater contamination.

16. National Fire Prevention Association, Volume 327, "Cleaning or Safeguarding Small Tanks and Containers without Entry."
17. US Department of Transportation (US DOT) 49 CFR Section 172.500 et seq.
18. American Petroleum Institute, API-2015A, "A Guide for Controlling the Lead Hazard Associated with Tank Entry and Cleaning."
19. American Petroleum Institute, API-2217A, "Guidelines for Work in Inert Confined Spaces in the Petroleum Industry."
20. American Petroleum Institute, API-2015, "Requirements for Safe Entry and Cleaning of Petroleum Storage Tanks."
21. American Petroleum Institute, API-2016, "Guidelines and Procedures for Entering and Cleaning Petroleum Storage Tanks."
22. American Petroleum Institute, API-1604, "Closure of Underground Petroleum Storage Tanks."
23. American National Standard Institute, ANSI 22882, "Standard Practice for Respiratory Protection."
24. American Society of Testing Materials, ASTM D 5088 (1990), Decontamination of Field Equipment Used at Non-radioactive Waste Sites.
25. National Institute for Occupational Safety and Health, NIOSH, "Working in Confined Space."
26. Any transporter of contaminated/hazardous soils materials shall be licensed in the state in which handling and transportation shall take place in accordance with all applicable regulations.
27. Contractor shall comply with Occupational Safety and Health Administration (OSHA) Standards and Regulations contained in Title 29 CFR Part 1910.120 "Hazardous Waste Operations and Emergency Response."
28. Where reference is made to one of the above standards, the revision in effect at the time of the bid opening shall apply.
29. American Society for Testing and Materials (ASTM) latest edition.
30. D422 Method for Particle Size Analysis of Soils
31. D1557 Test for Moisture-Density Relations of Soils Using 10-lb (4.5 Kg) Hammer and 18-inch (457 mm) Drop (Modified Proctor)
32. D2216 Laboratory Determination of Content of Soil
33. D2487 Classification of Soils for Engineering Purposes
34. D2922 Tests for Density of Soil and Soil- Aggregate in Place by Nuclear Methods (Shallow Depth)
35. D3017 Test for Moisture Content of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth)
36. D4318 Test for Plastic Limit, Liquid Limit, and Plasticity Index of Soils
37. American Association of State Highway and Transportation Officials (AASHTO) latest edition
38. T88 Mechanical Analysis of Soils

1.03 DEFINITIONS

- A. CTDEEP Remediation Standard Regulations (RSRs): Detailed guidance and standards that may be used at any site to determine whether or not remediation of contamination is necessary to protect human health and the environment.
- B. Clean Soil: Soils on site that have no detectable concentrations of non-naturally occurring compounds.
- C. Clean Fill: Approved fill brought onto the site that has been tested and found to have no exceedances of any CTDEEP RSR Criteria. This material must be free of solid waste and organic matter (i.e. wood, glass, etc.), and shall also comply with the requirements for suitable backfill soils. See Section 31 00 00, Earthwork.

4. VOC compounds Bromodichloromethane and Chloroform were detected in monitoring well ELB-5(OW) below the applicable RSR criteria.
- E. The Contractor, by careful examination, shall inform himself as to the nature and location of the work; the nature of the subsurface conditions; the locations of the groundwater table; the character, quality and quantity of the materials to be encountered; the character of the equipment and facilities needed preliminary to and during the execution of the work; the conditions of adjacent structures and utilities and all other matters which can in any way affect the work.
- F. The Contractor shall be held to have visited the site and to have familiarized himself with the existing conditions of adjoining utilities and structures.
- G. The Contractor shall make his own deductions of the subsurface conditions which may affect the methods or cost of construction of the work hereunder, and he agrees that he will make no claims for damages or compensations, except as are provided under the agreement, should he find conditions during the progress of the work different from those as calculated and/or anticipated by him. Additional borings and other exploratory operations may be performed by Contractor, at the Contractor's option and following approval from the Owner. No change in the Bid Sum will be authorized for such additional exploration undertaken by the Contractor.
- H. The Contractor shall investigate the conditions of public thoroughfares and roads as to availability, clearances, loads, limits, restrictions, and other limitations affecting transportation to, ingress and egress of the site. The Contractor shall conform to all Connecticut State and Federal regulations concerning the transportation of materials to and from and at the job site and shall secure in advance such permits as may be required.

1.05 SUBMITTALS

- A. The Contractor shall submit to the Engineer, copies of all material to establish compliance with this Section no later than 14 calendar days prior to construction. Order of materials and/or mobilization prior to review shall be at the Contractor's own risk.
- B. The Contractor shall submit satisfactory proof of his qualifications for performing the work specified herein. The Contractor performing the work of this Section shall prove that the firm and the personnel they intend to use for this project have at least 5 years of experience successfully completing contracts involving handling of contaminated materials on a scale as that specified for this project.
- C. Professional Personnel
 1. Submit names of any OSHA 40 hour HAZWOPER-certified personnel that will be assigned to this project, as well as copies of their certifications.
- D. Health and Safety
 1. The Contractor shall submit to the Engineer a site specific Health and Safety Plan 14 calendar days prior to construction (See Health and Safety – 01 35 29.13)
- E. All proposed disposal facilities must be approved by the Engineer prior to transporting soil. For each proposed disposal facility, the Contractor shall submit the following:
 1. Name, address, and location of the facility, including owner's name, address, telephone, and fax number and the contact person at the facility.
 2. The EPA Disposal Facility Identification Number and expiration date, if applicable.
 3. Copies of valid, existing, operating permits for the facility from the applicable regulatory agencies.
 4. Copies of currently valid permits from all applicable regulatory agencies to specifically accept the material. Such permits shall indicate that they are presently in effect. Permits shall state the maximum capacity of the facility to accept the materials.
 5. A signed commitment letter from the facility owner granting permission to bring material to the facility throughout the life of the Contract. Commitment letters must be supplied on the

Contractor if dust is detected above action levels and additional dust suppression measures are necessary.

- D. The Contractor shall complete any necessary manifests/weight tickets required for transport of the contaminated soil. Copies of any weight tickets and/or manifests for the contaminated soil shall be provided to the Owner or Engineer within 48 hours of transporting the soil.

3.05 HANDLING OF CONTAMINATED GROUNDWATER

- A. If removal of contaminated groundwater is required to complete the work, the Contractor shall provide the Owner or Engineer with proposed treatment and/or disposal methods, as well as a cost estimate for treating and/or disposing of the contaminated water. The treatment system will consist of, at a minimum, frac tanks and bag filters.
- B. The Contractor shall not treat and/or dispose of any contaminated groundwater without written authorization from the Owner or Engineer. Any treatment and/or disposal of contaminated groundwater prior to receiving written authorization will be at the Contractor's sole risk.
- C. If contaminated groundwater is encountered, the Engineer will obtain the appropriate Groundwater Remediation Wastewater Discharge Permit.
- D. Any penalties resulting from the improper discharge and/or disposal of the contaminated groundwater will be the sole responsibility of the Contractor.

3.06 HANDLING OF CONTAMINATED DEBRIS

- A. All debris removed from contaminated areas of the site which is not suitable for use as backfill as determined by the Engineer shall be stockpiled on an impervious surface or on 8 mil thick plastic sheeting. The debris stockpile shall be covered with 8 mil thick plastic sheeting securely weighted to prevent movement by the wind. The Contractor will be responsible for classifying these materials prior to off-site disposal.

3.07 TRUCK AND EQUIPMENT DECONTAMINATION

- A. All trucks and equipment shall be provided to the work site free of contamination. The Engineer may prohibit from the site any equipment that in his opinion has not been thoroughly decontaminated prior to arrival. Any decontamination of the Contractor's equipment prior to arrival at the site shall be at the expense of the Contractor. The Contractor is prohibited from decontaminating equipment on the site that is not thoroughly decontaminated prior to arrival.
- B. All transport vehicles shall be inspected, prior to leaving the site, by the Contractor to ensure that no material adheres to the wheels, undercarriage, tailgates, covers, or other areas of transport vehicles. Decontamination of equipment shall prevent off-site tracking of soil or tracking soil from contaminated areas of the site to clean areas. All vehicles shall be cleaned as necessary prior to leaving the site.
- C. The Contractor shall ensure that the transport trucks are protected from contamination by properly covering and lining them with compatible materials or decontaminating them prior to any use other than hauling contaminated materials.
- D. The Contractor is responsible for preventing the tracking of soil, dirt, etc., onto public streets.
- E. Decontamination shall be considered complete when all visible oil, grease, soil, sediment and groundwater have been removed from the surface of the item being decontaminated.
- F. All wheels, tracks, and exterior surfaces of equipment used to perform the specified work shall be decontaminated prior to leaving the site, as necessary, to prevent off-site tracking of potentially contaminated soil.
 - 1. Contaminated equipment shall not be driven or towed along public roadways.

SECTION 31 00 00**EARTHWORK****PART 1 GENERAL****1.01 DESCRIPTION**

- A. General: Perform earthwork in accordance with the Contract Documents.
- B. Work Included: Work of this Section includes all labor, materials, equipment, and services necessary to complete the excavation, foundations, subgrade preparation, filling and grading as shown on the Drawings and specified herein including, but not limited to the following:
 - 1. All earth excavation to the bottom of foundations, walls, pits, slabs, manholes, etc. as required and indicated on the Contract Drawings or to a lower elevation to achieve required bearing capacity, as directed by the Geotechnical Engineer.
 - 2. Excavation, filling and rough grading of site area at adjacent structures and roadways as required and within the Contract Limit Line.
 - 3. Excavation, filling, grading and compacting to required elevations for all floors, slabs on grade, and structural slabs.
 - 4. Excavation, filling, grading and compacting to required elevations for appurtenances and site work.
 - 5. Filling and compacting of soil below foundation slab-on-grades, behind below grade walls, and beneath structural slabs.
 - 6. Legal disposing off the site, of surplus excavated materials unsuitable for filling or backfilling.
 - 7. Pumping and dewatering as required for work of this section and for foundation work.
 - 8. Subgrade preparation for foundations.
 - 9. Protection and monitoring of adjacent structures, utilities and pavements.
 - 10. Other labor and materials as may be reasonably inferred to be required to make the work under this Section complete.

1.02 RELATED SECTIONS

- A. Concrete Work – Section 03 30 00
- B. Underground Storage Tank Removal – Section 02 65 00
- C. Rock Removal – Section 31 08 01
- D. Dewatering – Section 31 08 02

1.03 REFERENCES

- A. General: All work and materials under this section shall conform to the latest revision of the following standard specifications, where not otherwise required by the Contract Documents:
- B. American Society for Testing and Materials (ASTM) – latest edition.
 - 1. C 136 Test for Sieve Analysis of Fine and Coarse Aggregates
 - 2. D 422 Method for Particle Size Analysis of Soils
 - 3. D 698 Test for Moisture - Density Relations of Soils - Standard Proctor Method
 - 4. D 1140 Test for Amount of Material in Soils Finer than No. 200 (75 mm) Sieve
 - 5. D 1556 Test for Density and Unit Weight of Soil in Place by the Sand-Cone Method
 - 6. D 1557 Test for Moisture-Density Relations of Soils Using 10-lb (4.5 Kg) Hammer and 18-inch (457 mm) Drop (Modified Proctor)
 - 7. D 2216 Laboratory Determination of Moisture content of Soil
 - 8. D 2487 Classification of Soils for Engineering Purposes
 - 9. D 2922 Tests for Density of Soil and Soil- Aggregate in Place by Nuclear Methods (Shallow Depth)

10. D 3017 Test for Moisture Content of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth)
 11. D 4253 Test Method of Maximum Index Density and Unit Weight of Soils Using a Vibratory Table
 12. D 4254 Test Methods for Minimum Index Density and Unit Weight of Soils and Calculations of Relative Density
 13. D 4318 Test for Plastic Limit, Liquid Limit, and Plasticity Index of Soils
- C. American Association of State Highway and Transportation Officials (AASHTO) – Latest edition.
1. T 88 Mechanical Analysis of Soils
- D. All work shall comply with the requirements of the Connecticut State Building Code (IBC 2003 with 2009 Connecticut Supplement), and the requirements and regulations of any other Federal, State, or Local ordinances having jurisdiction.
- E. Previous Reports: where discrepancies are present, the more stringent requirement shall apply.
1. Geotechnical Engineering Study, prepared by Langan CT, Inc. dated February 15, 2012 and revised November 8, 2013.

1.04 SUBMITTALS

- A. Within ten days after award of the contract, the Contractor shall submit to the Architect a schedule detailing the sequence, and time of completion of all phases of work under this section.
- B. At least two weeks in advance of imported fill use, the Contractor shall submit either the following laboratory test data or a 50-pound soil sample to the Geotechnical Engineer for each type of imported soil/gravel material to be used as compacted fill:
1. Test reports on borrow material as follows:
 - a. Moisture and Density Relationship: ASTM D1557.
 - b. Mechanical Analysis: AASHTO T-88.
 - c. Moisture content in accordance with ASTM D 2216.
 - d. Relative Density: ASTM D2049.
 - e. California Bearing Ratio (CBR): ASTM D1883.
 - f. Plasticity Index: ASTM 4318.
 2. Include data for all samples indicating the exact location and methods of transportation and placement of all materials.
- C. Together with the above test data, the Contractor shall submit a 5 pound sample of each type of off-site fill material in an air tight container for the approval of the Geotechnical Engineer.
- D. Submit the name of each material supplier and specific type and source of each material. Any change in source or soil type throughout the job requires approval of the Builder and the Geotechnical Engineer.
- E. Samples: Submit a 12 inch by 12 inch sample of filter fabric.
- F. Shop Drawings:
1. Submit detailed shop drawings and calculations, to be reviewed by the Owner's Geotechnical Engineer, of earthwork procedures and sequences including temporary excavation support systems.
 2. The drawings shall bear the signature and seal of a Professional Engineer registered in the State of Connecticut.
- G. Pre-Construction Conditions Survey: The Contractor will perform a pre-construction conditions survey of all immediate adjacent structures, the results of which will be made available to the Owner and Design Team upon completion of the survey.

- H. Certification for Examination of Site and Records: Before proceeding with the Work, submit

anticipated by him. Additional borings and other exploratory operations may be performed by Contractor, at the Contractor's option and following the Owner's approval. No change in the Contract Sum will be authorized for such additional exploration undertaken by the Contractor.

- G. The Contractor shall investigate the conditions of public thoroughfares and roads as to availability, clearances, loads, limits, restrictions, and other limitations affecting transportation to, ingress and egress of the site of the work. The Contractor shall conform to all City and State, and Federal regulations concerning the transportation of materials to and from and at the job site and shall secure in advance such permits as may be required.

1.07 PRE-CONSTRUCTION CONDITION SURVEY

- A. The Contractor shall perform a pre-construction conditions survey of the structures immediately adjacent to the work area, prior to the start of work and shall include the results of this survey with their shop drawings submittal to the Owner and Design Team before commencement of said work.

1.08 PROTECTION

- A. Protection of Adjacent Structures, Utilities and Pavements
1. Prior to commencement of any work, consult the records for existing utilities, and note all conditions and limitations, which might affect the work required under this section.
 2. The Contractor shall become acquainted with the existence and location of all surface and subsurface structures and utilities within the project area. Contractor shall not damage any of those that are to remain and shall leave them accessible.
 3. The work shall be executed so that no damage or injury will occur to existing public and adjoining or adjacent structures, streets, paving, sewers, gas, water, electric or any other pipes. Should any damage or injury caused by the contractor, or anyone in Contractor's employ, or by the work under this Contract occur, the Contractor shall, at his own expense, make good such damage and assume all responsibility for such injury.
 4. Provide barricades and warning lights, barriers, etc, to prevent accidents, to avoid all necessary hazards and protect the public, the work, and property at all times, including Saturdays, Sundays, and holidays.
 5. The above shall also include the protection of all existing utilities (including sewers, electrical lines and telecommunication lines) to remain in use within and adjacent to the area affected by the work of this project.
 6. Monuments, bench marks and other reference features on streets bounding this project, shall be protected. Should these be disturbed in any manner, the Contractor shall have them replaced at own expense.
 7. Excavation work shall be restricted to hours indicated in the Contract Documents.
 8. The Contractor's surveyor shall install control points on the adjacent structures and pavement for vertical and horizontal monitoring (to the nearest 0.005 ft.). Control points shall be monitored weekly during excavation and foundation construction work.
- B. Protection of Excavation Bottoms
1. Facilities and materials needed to prevent earth at bottom of excavation from becoming frozen or unsuitable to receive the foundations shall be furnished.
 2. The excavation shall not be carried to final grades during freezing weather without providing complete protection against freezing of the subgrades as specified hereinafter. Complete protection against freezing shall also be provided if freezing weather sets in after completion of the excavation to final subgrade. This protection shall include adequate heating and coverage of the area to maintain temperatures above freezing until foundations have been concreted and backfilled.
 3. Where excavations have been brought to the bottom elevations called for on the drawings, and the bottom of these excavations become unsuitable in the opinion of the Owner's Geotechnical Engineer because of inadequate protection by the Contractor, these

excavations shall be carried to lower depths sufficient to provide stable bearing as determined by the Owner's Geotechnical Engineer.

1.09 ERRORS IN DEPTH

- A. In the event that any part of the excavation is carried, through error, beyond the depth and the dimensions indicated on the drawings of called for in the specifications, then the Contractor, at his own expense, shall furnish and install gravel or stone with which to fill to the required level, in all locations except beneath footings and piers. At these locations, Contractor shall be required to fill to level of bottom footing with concrete mixed in the proportion of the foundations bearing on them. Where established bottoms as shown on drawings have not been maintained or have been disturbed by operations under this contract, they shall be cleaned out and filled with concrete mixed in the proportion of the footings bearing upon them, without additional cost to the Owner.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Structural or Engineered Fill: Well-graded sand and gravel having no more than 15% by dry weight passing the No. 200 sieve, free of organic material, clay, excessive silt, other deleterious or compressible materials, cinders, frozen material, trash, masonry or rubble and free of particle having dimensions greater than 3-inches in all directions. The on-site fill and natural glacial till conforming to the above gradation criteria and material that is not regulated as waste that requires off-site disposal can be reused as structural fill. Structural fill shall be used as backfilling material within 4 feet of any structure, including footings, slabs, below-grade walls, utilities, manholes, catch basins, in areas greater than 2 feet above pavement subgrade, if acceptable with the project Civil Engineer.
- B. General Fill: Well-graded sand and gravel having no more than 20% by dry weight passing the No. 200 sieve, free of organic material, clay, excessive silt, other deleterious or compressible material, cinders, frozen material, trash, masonry or rubble and free of particles having dimensions greater than 3-inch in all directions. The on-site fill and natural glacial till conforming to the above gradation criteria and material that is not regulated as waste that requires off-site disposal can be reused as general fill. The use of recycled concrete aggregate as general fill shall be permitted provided it meets the gradation requirements above. General fill shall be used as backfilling material in non-finished areas (i.e. landscaped areas) or in areas greater than 2 feet below pavement subgrades, if acceptable with the project Civil Engineer.
- C. Imported Fill: Well-graded sand and gravel having no more than 15% by dry weight passing the No. 200 sieve, free of organic material, clay, excessive silt, other deleterious or compressible materials, cinders, frozen material, trash, masonry or rubble and free of particle having dimensions greater than 2-inches in all directions. Any approved imported fill should be "certified clean fill" free of hazardous substances and meeting all site, local and federal regulations.
- D. Drainage or Granular Fill: Free draining natural crushed stone free of deleterious materials and conforming to the gradation requirements commercially known as clean, durable, ¾-inch crushed stone. Recycled concrete shall not be acceptable.
- E. The use of recycled concrete aggregate (RCA) is not permeated as backfill material behind permanent below grade walls.
- F. Filter Fabric: Mirafi 140 manufactured by TC Mirafi or approved equivalent woven geotextile filter fabric where specified.

SECTION 31 08 02**DEWATERING****PART 1 GENERAL**

The work specified in this section consists of furnishing, arranging, locating, determining required depths of, maintaining, operating and removing dewatering systems as indicated.

1.01 SCOPE OF WORK

- A. This Section specifies the requirements for control of groundwater and surface water within the site during subsurface construction activities.
- B. The work includes:
 - 1. Control of surface water runoff to prevent flooding of excavations, trenches and adjacent properties, and the saturation and loosening of soils.
 - 2. Removal of subsurface water from excavations and trenches.
 - 3. Providing equipment and facilities to remove sediment and control the flow rates and volumes of surface and subsurface waters removed from the work areas.
 - 4. Work performed under this section shall be subject to all the Contract Documents including the Drawings, the General Conditions and the Special Conditions.

1.02 RELATED SECTIONS AND DOCUMENTS

- A. References
 - 1. Geotechnical Engineering Report by Langan CT, Inc. dated February 15, 2012 and revised November 8, 2013.
- B. Sections containing requirements related to this Section include, but are not limited to:
 - 1. Construction Drawings
 - 2. Health & Safety - 01 35 29.13
 - 3. Soil Erosion and Sediment Control
 - 4. Handling & Disposal of Contaminated Materials - Section 02 61 13
 - 5. Earthwork - Section 31 00 00
- C. Regulatory Requirements and Reference Standards
 - 1. All applicable OSHA requirements and other Federal, State and Local codes, laws, ordinances, regulations and guidelines for related Work.
 - 2. State of Connecticut Department of Energy and Environmental Protection (DEEP) Remediation Standard Regulations (RSRs) and solid waste regulations (section 22A-209 of the Connecticut General Statutes)
 - 3. Resource Conservation and Recovery Act (RCRA) Subtitle D – Solid Waste Regulations (40 CFR Parts 239-258)
 - 4. All applicable Federal, State and Local permits necessary to complete the work (i.e. CTDEEP General Permits).

1.03 DEWATERING SYSTEM REQUIREMENTS

- A. The Contractor shall design the dewatering system to:
 - 1. Effectively reduce the hydrostatic pressure and lower the groundwater levels to a minimum of 2 feet below the bottom of proposed excavations (if groundwater is encountered) or, if encountered, to the top of rock elevation;
 - 2. Develop a substantially dry and stable subgrade for the proposed work;
 - 3. Prevent damage to adjacent properties, buildings, structures, utilities and other facilities.
 - 4. Ensure that, after 12 hours of initial pumping, no soil particles will be present in the discharge;
 - 5. Retain all sediments on-site within the work area.

- B. Prevent all hydrostatic uplift forces which act on a structure base.
- C. Consider pre-construction water elevations and low permeability rates characteristic of the local soils when developing dewatering plan.
- D. Locate dewatering facilities where they will not interfere with utilities and construction work to be completed by others.
- E. Modify dewatering equipment and procedures when operations threaten to cause damage to new or existing facilities or adjacent areas not within the limit of work.

1.04 QUALIFICATIONS

- A. Contractor for work of this section shall be one specializing in the installation and operation of dewatering equipment and shall submit evidence substantiating a minimum of five years satisfactory experience in the installation and maintenance of such systems.

1.05 SUBMITTALS

- A. Prior to installation of the dewatering system, submit working drawings and design data prepared by a registered professional engineer in the state of Connecticut with the following information:
 1. The proposed type of dewatering system(s);
 2. Arrangement, location and depths of system components;
 3. Complete description of equipment and instrumentation to be used including installation, operation, maintenance, and winterization procedures;
 4. Types and sizes of treatment components (filters, carbon units, etc.);
 5. Design calculations demonstrating adequacy of the proposed system and equipment in achieving the necessary discharge parameters;
 6. Provisions and methods of sediment removal and disposal of water (which shall prevent damage to existing structures, roadways and utilities); and
 7. All permits required for the work.
- B. If required, submit working drawings and details section, showing previously installed Langan observation wells and method of maintaining throughout construction.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Dewatering pump(s); and
- B. Engineer approved groundwater treatment system.

PART 3 EXECUTION

3.01 GENERAL REQUIREMENTS

- A. It is anticipated, but not guaranteed, that groundwater is present at approximately 2 to 9.5 feet below the surface, elevations 91.5 to 129.5 feet (NAVD 88) respectively, throughout the site.
- B. The dewatering system shall be installed for the purpose of dewatering the excavation to provide a stable, dry subgrade for the prosecution of the proposed work.
- C. The dewatering system must be kept in full operation as required for the excavation and construction of foundation elements.
- D. Dewatering activities shall continue until installed underdrain and perimeter foundation drainage systems are tested and operational and after lowest level foundation walls and lowest level slabs are constructed. Contractor shall obtain approval from Engineer before discontinuing any dewatering activities.

- B. Quantity allowances for earth moving are included in Section 012100 "Allowances."

1.04 DEFINITIONS

- A. Backfill: Soil material or controlled low-strength material used to fill an excavation.
- B. Base Course: Aggregate layer placed between the subbase course and hot-mix asphalt paving.
- C. Bedding Course: Aggregate layer placed over the excavated subgrade in a trench before laying pipe.
- D. Excavation: Removal of material encountered above subgrade elevations and to lines and dimensions indicated.
 - 1. Authorized Additional Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions as directed by Geotechnical Engineer and/or Owner's Testing Agency. Authorized additional excavation and replacement material will be paid for according to Contract provisions for changes in the Work.
 - 2. Bulk Excavation: Excavation more than 10 feet.
 - 3. Unauthorized Excavation: Excavation below subgrade elevations or beyond indicated lines and dimensions without direction by Geotechnical Engineer and/or Owner's Testing Agency. Unauthorized excavation, as well as remedial work directed by Geotechnical Engineer and/or Owner's Testing Agency, shall be without additional compensation.
- E. Fill: Soil materials used to raise existing grades.
- F. Structures: Retaining walls, equipment pads, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below the ground surface.
- G. Subbase Course: Aggregate layer placed between the subgrade and base course.
- H. Subgrade: Uppermost surface of an excavation or the top surface of a fill or backfill immediately below subbase.
- I. Utilities: On-site underground pipes, conduits, ducts, and cables, as well as underground services within building limits.

1.05 ACTION SUBMITTALS

- A. Product Data: For each type of the following manufactured products required:
 - 1. Warning tapes.
- B. Earth Material Samples: Contractor shall be responsible for obtaining samples (50 pounds minimum) of earthwork materials proposed to be used and transporting them to the site 7 calendar days in advance of the time planned for incorporating them into the work. Use of proposed materials by the Contractor prior to testing and approval or rejection shall be at the Contractor's risk. The following information shall be submitted:
 - 1. Location of borrow source site.
 - 2. Present and past usage of the source site and material.

3. Any previously existing report(s) associated with an assessment of the source site, as relates to the presence of oil or hazardous material.
 4. Location within the source site from which the material will be obtained.
- C. Up to three test series (gradation and laboratory compaction) will be completed by the Geotechnical Engineer or Owner's Testing Agency for off-site borrow sources for each category of earth materials defined in Part 2 of this Section at the Owner's cost. Testing of additional samples or sources shall be at the Contractor's cost.
1. Sieve analysis to be based on washed sieve analysis in accordance with appropriate ASTM standard.

1.06 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified testing agency.
- B. Material Test Reports: For each on-site and borrow soil material proposed for fill and backfill as follows:
1. Classification according to ASTM D 2487.
 2. Laboratory compaction curve according to ASTM D 1557.
- C. Preexcavation Photographs or Videotape: Show existing conditions of adjoining construction and site improvements, including finish surfaces, that might be misconstrued as damage caused by earth moving operations. Submit before earth moving begins.
- D. Flowable Fill Mix Design: Submit mix design with admixture information for review and approval a minimum of 15 days prior to start of work.

1.07 QUALITY ASSURANCE

- A. Geotechnical Testing Agency Qualifications: Qualified according to ASTM E 329 and ASTM D 3740 for testing indicated.
- B. Earthwork Observation and Testing:
1. The Owner will retain a qualified Geotechnical Engineer and/or Testing Agency to perform on-site observation and testing during work under this and related sections and as indicated in the "Schedule of Special Inspections." The services of the Geotechnical Engineer and/or Owner's Testing Agency may include, but not be limited to the following:
 - a. Observation during excavation, subgrade preparation and backfill for footings, pavements, walks, utility trenches, equipment pads and subsurface drainage construction, etc.
 - b. Determination of requirements for additional excavation to remove unsuitable materials.
 - c. Observation and testing during placement and compaction of fill and backfill.
 - d. Laboratory testing and analysis of fill material specified.
 - e. Review of submittals.
 2. During the course of construction, the Geotechnical Engineer and/or Owner's Testing Agency shall advise the Owner's Agent, in writing, with a copy to the Architect and Contractor, if at any time, in his opinion, the work is not in substantial conformity with the

6. When in the course of the work it is necessary to connect a utility to a main in a public way, all the requirements of both the authorities governing the utility and those governing the public way shall be met. Pavement shall be temporarily and permanently replaced as directed by these authorities at no additional cost to the Owner.

B. Site Information:

1. Information in the Contract Plans and in the Specifications relating to subsurface conditions, existing utilities and structures is from the best sources presently available. Such information is furnished only for the information and convenience of the Contractor, and the accuracy and completeness of this information is not guaranteed. The opinions expressed in this report are those of the Geotechnical Engineer and represent interpretations of the subsoil conditions, tests, and results of analyses conducted by the Geotechnical Engineer. The Owner will not be responsible for interpretations or conclusions drawn from this data by the Contractor.
2. Refer to Geotechnical Report, for available subsurface data. The report is not part of the Contract Documents. The Contractor may, at his own expense and upon application to the Owner, conduct additional subsurface explorations and testing.

C. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during earth moving operations.

1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
2. Provide alternate routes around closed or obstructed traffic ways if required by Owner or authorities having jurisdiction.

D. Improvements on Adjoining Property: Authority for performing earth moving indicated on property adjoining Owner's property will be obtained by Owner before award of Contract.

1. Do not proceed with work on adjoining property until directed by Architect.

E. Do not commence earth moving operations until temporary erosion- and sedimentation-control measures are in place.

F. Do not commence earth moving operations until plant-protection measures are in place.

G. The following practices are prohibited within protection zones:

1. Storage of construction materials, debris, or excavated material.
2. Parking vehicles or equipment.
3. Foot traffic.
4. Erection of sheds or structures.
5. Impoundment of water.
6. Excavation or other digging unless otherwise indicated.
7. Attachment of signs to or wrapping materials around trees or plants unless otherwise indicated.

H. Do not direct vehicle or equipment exhaust towards protection zones.

I. Prohibit heat sources, flames, ignition sources, and smoking within or near protection zones.

PART 2 - PRODUCTS

2.01 SOIL MATERIALS

- A. General: All rock and soil materials furnished for use as fill or backfill shall be free of grease, oil, solvents, pesticides, herbicides or other hazardous or deleterious materials and/or contaminants. All rock and soil materials specified in this Section shall also be free from ice, snow, trash, debris, stumps, roots and organic material.
- B. Satisfactory Soils: Soil Classification Groups GW, GP, GM, SW, SP, and SM according to ASTM D 2487, or a combination of these groups; free of rock or gravel larger than 3 inches in any dimension, debris, waste, frozen materials, vegetation, and other deleterious matter. The use of on site satisfactory soils as backfill shall be approved by the geotechnical engineer prior to use.
- C. Unsatisfactory Soils: Soil Classification Groups GC, SC, CL, ML, OL, CH, MH, OH, and PT according to ASTM D 2487, contaminated soils or a combination of these groups. Symbols shall not be used as fill or backfill except where impervious fill is specified or detailed. Satisfactory soils which have been rendered wet, such that the contractor cannot establish a stable soil mass compacted as specified in this Section, also shall not be used as fill or backfill.
 - 1. Unsatisfactory soils also include satisfactory soils not maintained within 2 percent of optimum moisture content at time of compaction.
- D. 3/4-Inch Crushed Stone: Crushed stone shall be a quarry product or washed gravel stone obtained from offsite sources for use as detailed on the drawings. Crushed stone shall consist of durable crushed rock or gravel stone essentially free of silt, clay, loam or other deleterious materials and shall conform to the following gradation requirements for the nominal size indicated.

SQUARE MESH SIEVES	PERCENT FINER BY WEIGHT
Pass 1 Inch	100
Pass 3/4 Inch	90 - 100
Pass 1/2 Inch	20 - 55
Pass 3/8 Inch	0 - 15
Pass No. 4	0 - 5

- E. Base: Naturally or artificially graded non-plastic mixture of durable, sound coarse and fine aggregate and obtained from suitable excavated onsite soils or offsite sources. Mixture to be free of debris, waste, frozen materials, and organics, and shall be well graded within the following limits (processed stone, no gravel):

SQUARE MESH SIEVES	PERCENT FINER BY WEIGHT
Pass 2-1/2 Inch	100
Pass 2 Inch	95 - 100
Pass 3/4 Inch	50 - 75
Pass 1/4 Inch	25 - 45
Pass No. 40	5 - 20
Pass No. 100	2 - 12

- F. Subbase: Subbase material for use as pavement subbase course and other uses as detailed shall be obtained from suitable excavated onsite soils or offsite sources. Base shall consist of a

non-plastic mixture of durable, sound coarse and fine aggregate with no more than 15 percent by weight of recycled bituminous concrete and shall be well graded within the following limits:

SQUARE MESH SIEVES	PERCENT FINER BY WEIGHT
Pass 3-1/2 Inch	100
Pass 1-1/2 Inch	55 - 100
Pass 1/4 Inch	25 - 60
Pass No. 10	15 - 45
Pass No. 40	5 - 25
Pass No. 100	0 - 10
Pass No. 200	0 - 5

G. Bedding Material:

1. Type "A" Bedding: Well-graded gravels and gravel sand mixtures within the following limits:

SQUARE MESH SIEVES	PERCENT FINER BY WEIGHT
Pass 1 Inch	100
Pass No. 4	40 - 70
Pass No. 200	0 - 5

2. Type "B" Bedding: Sand or sandy soil free of debris, waste, frozen materials, and organics with 100 percent passing a 3/8-inch sieve and not more than ten percent passing a No. 200 sieve.

H. Granular Fill (Also Termed Structural Fill): Granular fill shall be obtained from suitable excavated onsite soil or offsite borrow sources for use as fill and backfill below and interior to building areas except where other materials are specified or detailed, and as details on the drawings. Granular fill shall consist of non-plastic naturally or artificially graded mixture of sound coarse and fine aggregates free of debris, waste, frozen materials and organics and conforming to the following gradation:

SQUARE MESH SIEVES	PERCENT FINER BY WEIGHT
Pass 3-1/2 Inch	100
Pass 1-1/2 Inch	55 - 100
Pass 1/4 Inch	25 - 60
Pass No. 10	15 - 45
Pass No. 40	5 - 25
Pass No. 100	0 - 10
Pass No. 200	0 - 5

- I. General Fill: Clean, sound mixture of material free of debris, waste, frozen materials and organics with 5-inch maximum size aggregate and not more than 12 percent passing the No. 200 sieve.
- J. Sand: ASTM C 33; fine aggregate.
- K. Impervious Fill: Clayey gravel and sand mixture capable of compacting to a dense state.
- L. Flowable / Excavatable Fill: Mixture of cement, GranCem, sand, water and admixtures to produce a flowable / excavatable fill with a compressive strength at 28 days of 100 psi to 200 psi.

4. Install dewatering as required to keep subgrades dry and convey groundwater away from excavations. Maintain until dewatering is no longer required.
5. Water from trenches and excavations shall be disposed of in such a manner as will not cause injury to public health, nor damage to public or private property, existing work, or work in progress, nor to the surface of roads, walks and streets, nor cause any undue interference with the use of the same by the public. The Contractor shall comply with all applicable environmental protection and/or sediment/erosion control regulations.
6. Under no circumstances place concrete or fill, or lay piping or install appurtenances in excavations containing free water. Keep utility trenches free from water until pipe joint material has hardened.

3.03 EXCAVATION, GENERAL

- A. Classified Excavation: Excavate to subgrade elevations. Material to be excavated will be classified as earth and rock. Do not disintegrate or excavate rock until it has been classified by the Geotechnical Engineer and/or Owner's Agent and cross-sectioned by the Owner's registered land surveyor.
 1. Earth excavation includes excavating pavements and obstructions visible on surface; underground structures, utilities, and other items indicated to be removed; together with soil, boulders, and other materials not classified as rock or unauthorized excavation.
 - a. Intermittent drilling; ram hammering; or ripping of material not classified as rock excavation is earth excavation.
 2. Refer to 310801 - Rock Excavation for requirements regarding rock excavation.
- B. Dimensions:
 1. Excavate to elevations and dimensions indicated on the drawings or as otherwise required for the work. Do all necessary excavation, including, but not limited to, excavation for structures, footings, foundations, grade beams, walls and slabs below grade, paving, utility lines, mechanical work, mechanical and drainage structures, drains, and other below grade work. Excavate sufficient material so as to allow ample space for construction operations including placing and removal of forms, installation of waterproofing, dampproofing or utilities and inspection of excavated areas.
 2. Side forms will be required for all concrete work unless omission of forms is requested by the Contractor, in writing, to the Engineer. Where omission of forms is requested by the Contractor, and accepted by the Engineer, the Contractor shall bear the cost of any additional concrete volume required beyond the minimum profiles and dimensions of the footing, wall, or utility trench as detailed.
- C. Disposition of Excavated Material:
 1. Sort and stockpile excavated material according to its suitability for re-use and job requirements. Onsite stockpile room will be limited and the Contractor shall plan his operations to facilitate prompt reuse of excavated material or provide offsite stockpile locations as required.
 2. Stockpile soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
 3. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.

4. Offsite Disposal: Remove surplus satisfactory soil and waste material, including unsatisfactory soil, trash, and debris and legally dispose of it off Owner's property.
- D. Unauthorized Excavation: Unauthorized excavation consists of removal of materials beyond indicated subgrade elevations or dimension without specific direction of the Engineer or Owner's agent. Unauthorized excavation, as well as remedial work specified by the Engineer, shall be at the Contractor's expense.
1. In areas below structures, pavements and walks, backfill unauthorized excavation with granular fill placed and compacted in accordance with this Section, unless otherwise directed by the Engineer.
 2. Elsewhere, backfill and compact unauthorized excavations with general fill, compacted to the requirements of this Section.
 3. Where the excavation of otherwise suitable materials is required due to these materials being rendered unsuitable due to disturbance, construction activity, freezing, or lack of protection from the elements, the Contractor shall excavate these materials and provide remedial work as specified above at no additional cost to the Owner.
- E. Authorized Additional Excavation: In the case that unsuitable materials, as determined by the Engineer, are encountered at the specified subgrade elevation, the Engineer may direct the removal of the unsuitable material and refill will granular fill placed and compacted in accordance with the requirements of this Section. Authorized addition excavation with granular fill backfill will be paid according to Unit Prices and Allowances. Backfilling Prior to Acceptance of Work Installed:
1. Do not allow or cause the work performed or installed to be covered up or enclosed by work of this Section prior to all required inspections, tests, and acceptances.
 2. Should any of the work be so enclosed or covered up before it has been accepted, uncover all such work at no additional cost to the Owner.
 3. After the work has been completed, tested, inspected, and accepted, make all repairs and replacements necessary to restore the work to the condition in which it was found at the time of uncovering, all at no additional cost to the Owner.
- F. Sheeting, Shoring, and Bracing:
1. Provide sheeting, shoring and/or bracing at excavations as required to assure safety against collapse of earth or rock at sides of excavations; as required for support of adjacent structures, streets, or utilities; or as required to comply with federal, state or local regulations, codes or ordinances.
 2. Provide materials for sheeting, shoring and bracing, such as sheet piling, uprights, stringers and cross braces, in good serviceable condition. Maintain shoring and bracing in excavations regardless of time period excavations will be open. Carry down sheeting, shoring and bracing as excavation progresses.
 3. All sheeting and bracing not ordered left in place shall be carefully removed in such a manner as not to endanger the construction of other structures, utilities or property whether public or private. All voids left after withdrawal of sheeting shall be immediately refilled with sand and rammed with tools especially adapted to that purpose or otherwise compacted as directed to achieve the required density.
 4. Wood sheeting shall not be completely withdrawn if driven below mid-diameter of any pipe, and under no circumstances shall any wood sheeting be cut off at a level lower than one foot above the top of pipe.
 5. Refer to related requirements in Section 315000 "Excavation Support and Protection."
- G. Dust and Erosion Control:

1. The Contractor shall take all necessary measures and provide equipment and/or materials to minimize dust from rising and blowing across the site and also to control surface water throughout the operation so that it does not run onto paved ways without being filtered. In addition, the Contractor shall control all dust created by construction operations and movement of construction vehicles, both on site and on paved ways.
2. Thoroughly moisten all surfaces as required to prevent dust being a nuisance to the public, neighbors and performance of other work on the site.
3. Repair any broken or damaged sections of hay bales or other erosion and siltation control measures damaged during excavation and grading operations and install any additional sections necessary for proper control.

H. Frost Protection and Snow Removal:

1. The Contractor shall, at his own expense, keep the operations under this contract clear and free of accumulations of snow or as required to carry out the work.
2. Do not excavate to full indicated depth when freezing temperatures may be expected, unless footings or slabs can be cast immediately after excavation has been completed. Protect the excavation from frost if placing of concrete is delayed. Do not cast concrete on frozen ground.
3. Completed foundations which have not been backfilled or which have less than 42 inches of earth cover above the bottom of the foundation shall be protected from freezing by temporary additional earth cover, insulating blankets, heaters, or other methods. See Section 033100 for additional requirements.

I. Protection of Persons and Property:

1. The work shall be executed in such manner as to prevent any damage to adjacent property and any other property and existing improvements, such as but not limited to, streets, curbs, paving, service utility lines, structures, monuments, bench marks and other public or private property. Protect existing improvements from damage caused by settlement, lateral movements, undermining, washout, vibration and other hazards created by earthwork operations.
2. In the case of any damage or injury caused in the performance of the work, the Contractor shall, at his own expense, make good such damage or injury to the satisfaction of and without cost to, the Owner. Existing roads, sidewalks, and curbs damaged during the project work shall be repaired or replaced to their original condition at the commencement of operations. The Contractor shall replace, at his own expense, existing bench marks, monuments and other reference points which are disturbed or destroyed.
3. Barricade open excavations occurring as part of this work and post with warning lights. Operate warning lights during hours from dusk to dawn each day and otherwise as required.
4. Buried structures, utility lines, etc., including those which project less than 18 inches above grade, which are subject to damage from construction equipment shall be clearly marked to indicate the hazard.
5. Provide protective construction fence around all landscaping in work area to remain.

3.04 EXCAVATION FOR UTILITY STRUCTURES

- A. Excavate to indicated elevations and dimensions within a tolerance of plus or minus 1 inch. If applicable, extend excavations a sufficient distance from structures for placing and removing concrete formwork, for installing services and other construction, and for inspections.

1. General: Do not disturb bottom of excavation. Excavate by hand to final grade just before placing concrete reinforcement. Trim bottoms to required lines and grades to leave solid base to receive other work.

B. Excavation for Structures and Piping, Etc.:

1. Excavate to elevations and dimensions indicated within a tolerance of plus or minus one inch. Do not disturb bottom of excavations intended for bearing surface.
2. Allow the Geotechnical Engineer to view the excavated subgrade. The Geotechnical Engineer shall determine whether authorized additional excavation is required to remove unsuitable material. Remove and replace such unsuitable material as directed by the Engineer.

C. Excavations at Edges of Tree- and Plant-Protection Zones:

1. Excavate by hand to indicated lines, cross sections, elevations, and subgrades. Use narrow-tine spading forks to comb soil and expose roots. Do not break, tear, or chop exposed roots. Do not use mechanical equipment that rips, tears, or pulls roots.
2. Cut and protect roots according to requirements in Section 015639 "Temporary Tree and Plant Protection."

3.05 EXCAVATION FOR WALKS AND PAVEMENTS

A. Excavate surfaces under walks, pavements and equipment pads to indicated lines, cross sections, elevations, and subgrades.

1. Walks, pavements and equipment pads shall be supported on subbase/base course(s) as indicated on the drawings.
2. Remove and replace excessively wet, disturbed or unstable material and proof compact the subgrade for the subbase/base course with at least six passes of a vibratory plate or vibratory roller compactor immediately prior to placement of slab base course material unless otherwise directed.
3. The final surface of the subgrade for the walks, pavements and equipment pads shall be proof rolled with at least four passes of an approved vibratory plate or vibratory drum compactor immediately prior to placing the reinforcing and/or concrete (as may be applicable).

3.06 EXCAVATION FOR UTILITY TRENCHES

A. Excavate trenches to indicated gradients, lines, depths, and elevations.

B. Excavate trenches to uniform widths to provide the following clearance on each side of pipe, conduit or ductbank. Excavate trench walls vertically from trench bottom to 12 inches higher than top of pipe, conduit or ductbank unless otherwise indicated.

1. Clearance: As indicated on Contract Documents.

C. Trench Bottoms: Excavate trenches to depth indicated on Contract Documents to allow for bedding course. Hand-excavate deeper for bells of pipe.

D. Trenches in Tree- and Plant-Protection Zones:

1. Hand-excavate to indicated lines, cross sections, elevations, and subgrades. Use narrow-tine spading forks to comb soil and expose roots. Do not break, tear, or chop exposed roots. Do not use mechanical equipment that rips, tears, or pulls roots.
2. Do not cut main lateral roots or taproots; cut only smaller roots that interfere with installation of utilities.
3. Cut and protect roots according to requirements in Section 015639 "Temporary Tree and Plant Protection."

3.07 SUBGRADE INSPECTION

- A. Notify Geotechnical Engineer and/or Owner's Testing Agency when excavations have reached required subgrade.
- B. If Geotechnical Engineer and/or Owner's Testing Agency determines that unsatisfactory soil is present, continue excavation and replace with compacted backfill or fill material as directed and in accordance with excavation requirements of this Section.
- C. Unforeseen additional excavation and replacement material will be paid for according to contract provisions for changes in the work.
- D. Proof-roll subgrade as directed by the Geotechnical Engineer and/or Owner's Testing Agency.
- E. Authorized additional excavation and replacement material will be paid for according to Contract provisions for unit prices.
- F. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by Geotechnical Engineer and/or Owner's Testing Agency, without additional compensation.

3.08 STORAGE OF SOIL MATERIALS

- A. Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
 1. Stockpile soil materials away from edge of excavations. Do not store within drip line of remaining trees.

3.09 PLACEMENT AND COMPACTION OF FILL AND BACKFILL

- A. Place and compact backfill in excavations promptly, but not before completing the following:
 1. Construction below finish grade including, where applicable, subdrainage, dampproofing, waterproofing, and perimeter insulation.
 2. Surveying locations of underground utilities for Record Documents.
 3. Testing and inspecting underground utilities.
 4. Removing concrete formwork.
 5. Removing trash and debris.
 6. Removing temporary shoring and bracing, and sheeting.
 7. Installing permanent or temporary horizontal bracing on horizontally supported walls.
- B. Place backfill on subgrades free of mud, frost, snow, or ice.

- K. Compaction shall be by mechanical means designed specifically for compaction and approved by the Engineer. The Engineer reserves the right to disapprove any device of inadequate capacity or of type unsuited to the character of the material being compacted. In areas which are too restricted to permit the use of mechanical compactors, fill may be placed in 3-inch layers and compacted by hand rammer or pneumatic tools.
- L. In addition to the stated degree of compaction, all fill and backfill shall receive at least the compactive effort given in the following table. Lift thickness shall not exceed that shown for the compaction method selected, except that the first lift of fill or backfill placed over natural ground in wet conditions may be as much as 12 inches thick. Application of the minimum compactive effort does not relieve the Contractor from his requirement to achieve the specified degree of compaction.

Compaction Method	Maximum Stone Size	Maximum Loose Lift Thickness		Minimum Number of Passes	
		Below Structures and Pavement	Less Critical Areas	Below Structures and Pavement	Less Critical Areas
Hand-operated vibratory plate or light roller in confined areas	4"	6"	8"	6	4
Hand-operated vibratory drum rollers weighing at least 1,000 lbs.	6"	8"	10"	6	4
Light vibratory drum roller, minimum dynamic force 3,000 lbs. per ft. of drum width	6"	10"	14"	6	4
Medium vibratory drum roller, minimum dynamic force 5,000 lbs. per ft. of drum width	8"	12"	18"	6	4
Large vibratory drum roller, minimum dynamic force 8,000 lbs. per ft. of drum width	10"	16"	24"	6	4

M. Moisture Control:

1. Water shall be added to fill material which does not contain sufficient moisture to be compacted to the specified densities. Fill and backfill material containing excess moisture shall be required to dry prior to or during compaction to a moisture content not greater than two percentage points (2%) above optimum except that material which displays pronounced elasticity or deformation underfoot or under load shall be required to dry to optimum moisture content before it is placed and compacted, if that is required to achieve specified compaction. At the Contractor's option, material which is too wet may be removed and replaced with approved satisfactory material at no additional cost to the Owner.
2. The Contractor is alerted to the potential silty nature of the on-site soil which renders them sensitive to moisture. On-site silty soils are difficult to handle and compact and are easily disturbed when wet. The Contractor shall plan and conduct his excavation and filling operations considering the nature of the onsite materials.

- N. Where the Engineer, Geotechnical Engineer and/or Owner's Testing Agency determines that fill or backfill does not conform to the compacted density specified, or did not receive the minimum compactive effort specified, such fill shall be removed and replaced with conforming materials at the Contractor's own cost.
- O. Backfilling of Walls:
 1. In placing backfill, take special care to prevent any wedge action, eccentric loading or overloading by equipment used in backfilling and compaction. See Contract Documents for additional requirements.
 2. Do not use equipment weighing more than 5,000 lbs. within 10 feet of all walls. Equipment weighing more than 5,000 lbs. shall not be used adjacent to walls, except as expressly approved by the Engineer.
 3. Prevent damage to wall waterproofing or dampproofing when backfilling.

3.10 DISTURBANCE OF EXCAVATED AND FILLED AREAS DURING CONSTRUCTION

- A. The Contractor shall take the necessary steps to avoid disturbance of subgrade during excavation and filling operations. Methods of excavation and filling shall be revised as necessary to avoid disturbance of the subgrade, including restricting the use of certain types of construction equipment and their movement over sensitive or unstable materials, dewatering and other acceptable control measures. The Contractor shall cooperate with the Engineer to modify his operations as necessary to mitigate disturbance and protect bearing soils, based on the Engineer's observations.
- B. All excavated or filled areas disturbed during construction; damaged by freezing temperatures, frost, rain, accumulated water, or construction activities; all loose or saturated soil, and other areas that do not meet compaction requirements as specified herein shall be removed and replaced with compacted fill materials specified. Costs of removal of disturbed material and refill with compacted fill shall be borne by the Contractor.

3.11 UTILITY TRENCH BACKFILL

- A. Place backfill on subgrades free of mud, frost, snow, or ice.
- B. Place and compact bedding course on trench bottoms and where indicated. Shape bedding course to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits and ductbanks.
- C. Do not excavate trenches under new or existing footings unless approved by Engineer. If approved, backfill trenches excavated under footings and within 18 inches of bottom of footings; fill with concrete to an elevation of 4 inches above bottom of footings.
- D. Backfill voids with approved satisfactory soil while removing shoring and bracing.
- E. Place and compact initial backfill of material as shown on the drawings, free of particles larger than 1 inch in any dimension, to a height over the pipe or conduit as indicated in the Contract Documents.
 1. Carefully compact initial backfill under pipe haunches and compact evenly up on both sides and along the full length of piping or conduit to avoid damage or displacement of piping or conduit. Coordinate backfilling with utilities testing.

- F. Place and compact final backfill of approved satisfactory soil to final subgrade elevation.
- G. Coordinate backfilling with utilities testing.

3.12 GRADING

- A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.
 - 1. Provide a smooth transition between adjacent existing grades and new grades.
 - 2. Cut out soft spots, fill low spots, and trim high spots to comply with required surface tolerances.
- B. Site Rough Grading: Slope grades to direct water away from buildings and to prevent ponding. Finish subgrades to required elevations within the following tolerances:
 - 1. Turf or Unpaved Areas: Plus or minus 1 inch.
 - 2. Walks: Plus or minus 1/2 inch.
 - 3. Pavements: Plus or minus 1/2 inch.

3.13 SUBBASE AND BASE COURSES UNDER PAVEMENTS AND WALKS

- A. On prepared subgrade, place subbase course and base course under pavements and walks as follows:
 - 1. Place base course material over subbase course under hot-mix asphalt pavement.
 - 2. Shape subbase course and base course to required crown elevations and cross-slope grades.
 - 3. Place subbase course and base course 6 inches or less in compacted thickness in a single layer.
 - 4. Place subbase course and base course that exceeds 6 inches in compacted thickness in layers of equal thickness, with no compacted layer more than 6 inches thick or less than 3 inches thick.
 - 5. Compact subbase course and base course at optimum moisture content to required grades, lines, cross sections, and thickness to not less than 95 percent of maximum dry density according to ASTM D 1557.
- B. Pavement Shoulders: Place shoulders along edges of subbase course and base course to prevent lateral movement. Construct shoulders, at least 12 inches wide, of approved satisfactory soil materials and compact simultaneously with each subbase and base layer to not less than 95 percent of maximum dry density according to ASTM D 1557.

3.14 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified geotechnical engineering testing agency to perform tests and inspections.
- B. Allow testing agency to inspect and test subgrades and each fill or backfill layer. Proceed with subsequent earth moving only after test results for previously completed work comply with requirements.
- C. Footing Subgrade: At footing subgrades, each soil stratum will be verified by Geotechnical Engineer and/or Owner's Testing Agency based on the required design bearing capacities.

- D. Testing agency will test compaction of soils in place according to ASTM D 1556, ASTM D 2167, ASTM D 2922, and ASTM D 2937, as applicable.
 - 1. Field in-place density tests may also be performed by the nuclear method according to ASTM D 2922, provided that calibration curves are periodically checked and adjusted to correlate to tests performed using ASTM D 1556. With each density calibration check, check the calibration curves furnished with the moisture gages according to ASTM D 3017.
 - 2. When field in-place density tests are performed using nuclear methods, make calibration checks for both density and moisture gages at beginning of work, on each different type of material encountered, and at intervals as directed by the Engineer.
- E. Tests will be performed at the following locations and frequencies, subject to the discretion of the Geotechnical Engineer and/or Owner's Testing Agency.
 - 1. Paved Areas and Walks: At subgrade and at each compacted fill and backfill layer, at least one test for every 2000 sq. ft. or less of paved area or building slab, but in no case fewer than three tests.
 - 2. Site Wall Backfill and Base, Structure Base: At each compacted backfill layer, at least one test for every 100 feet or less of wall length, but no fewer than two tests along a wall face.
 - 3. Trench Backfill and Base: At each compacted initial and final backfill layer, at least one test for every 150 feet or less of trench length, but no fewer than two tests.
- F. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil materials to depth required; recompact and retest until specified compaction is obtained.

3.15 PROTECTION

- A. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.
- B. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.
 - 1. Scarify or remove and replace soil material to depth as directed by Geotechnical Engineer and/or Owner's Testing Agency; reshape and recompact.
- C. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.
 - 1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

3.16 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Remove surplus satisfactory soil and waste materials, including unsatisfactory soil, trash, and debris, and legally dispose of them off Owner's property.
- B. Transport surplus satisfactory soil to designated storage areas on Owner's property. Stockpile or spread soil as directed by Architect.



Appendix H:
Materials Management Plan

MATERIAL MANAGEMENT PLAN

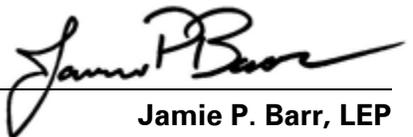
**488, 496, 506 & 516 Boston Post Road
4, 9, 14, 22 & 23 Daytona Street
14, 20-22, 24, 34, 38 & 46 Rockview Street
3, 6, 7, 13 & 20 Waban Street
West Haven, Connecticut**

Prepared For:

**Svigals + Partners
Architecture + Art
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New Haven, Connecticut**

Prepared By:

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LANGAN

**14 June 2013
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Figure 1 – Site Location Map

Figure 2 – Sampling Location Plan (Proposed Development)

Figure 3 – Sampling Location Plan (Existing Conditions)

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Table 1 – Phase II Environmental Site Investigation Soil Analytical Results

Table 2 – Lead Delineation and Additional Sampling Soil Analytical Results

Table 3 –Groundwater Analytical Results

APPENDICES

Appendix A – Laboratory Analytical Results

1.0 INTRODUCTION

This Materials Management Plan (MMP) has been prepared on behalf of Svigals + Partners (Svigals) and describes the procedures for documentation, excavation, management, and disposal of contaminated materials generated during the removal of urban fill containing metals, semi-volatile organic compounds (SVOCs), and extractable total petroleum hydrocarbons (ETPH); and potentially impacted groundwater during the proposed development activities at the "Subject Property", located at 488, 496, 506 and 516 Boston Post Road; 4, 9, 14, 22, and 23 Daytona Street; 14, 20-22, 24, 34, 38 & 46 Rockview Street; and 3, 6, 7, 13 & 20 Waban Street in the City of West Haven, New Haven County, Connecticut (see Figure 1).

Project activities associated with this MMP will include the following:

- Excavation and off-site disposal of contaminated soil in conjunction with proposed development activities (see Figures 2 and 3); and,
- Dewatering and discharge of groundwater from dewatering activities under an approved CTDEEP General Permit.

The preparation of this plan and proposed material handling stated herein is consistent with standard industry practices for preventing direct contact with lead, SVOC, and ETPH contaminated soils.

1.1 Background

According to the May 2012 Phase I Environmental Site Assessment (ESA) conducted by Langan, the Subject Property was primarily undeveloped until the 1960s, except for the residential buildings located at 506 Boston Post Road and 14 Rockview Street which were constructed in the early 1920s. The commercial property at 488 Boston Post Road was historically occupied by a general contractor. The building contains a concrete maintenance pit which was used for vehicle maintenance, and interior trench drains that reportedly collected ponded water which accumulated from truck storage. A heating oil underground storage tank (UST) which contained fuel oil used for heating the building is located north of the building. The Phase I ESA notes that a former occupant previously generated hazardous wastes on-site consisting of sulfuric acid, hydrochloric acid, and chloroform in quantities exceeding the 100 kilograms per month threshold, likely defining the property as an "Establishment" in accordance with the Connecticut Department of Energy and Environmental Protection (CTDEEP) Property Transfer Act. The property is currently vacant.

The commercial property at 496 Boston Post Road was historically occupied by an auto electric repair facility. During a Phase I site inspection performed by GZA in October 2011, interior operations consisted of a machining room, parts storage area, and office

space. A heating oil UST which contained fuel oil used for heating the building was observed directly south of the building during Langan's Phase I ESA site inspection.

According to previous reports reviewed by Langan, former site uses at the 4 and 14 Daytona Street parcel consisted of a construction company, and sheet metal and cement pipe manufacturer. A 275-gallon fuel oil aboveground storage tank (AST), 275-gallon waste oil AST, and fuel dispensing truck with a gasoline pump were located at the site. A Phase I ESA performed by Environmental Risk Limited (ERL) in July 2005 identified staining on the ground surface surrounding the waste oil AST and fuel truck. During site investigations performed in 2005 and 2006 by others, elevated concentrations of ETPH were identified in shallow soils (maximum 3 feet below grade) adjacent to the waste oil AST and fuel truck. In conjunction with the site owner vacating the property, approximately 35 to 40 tons of contaminated soils were excavated and disposed of off-site from the 2 areas of concern identified above. The property was subsequently redeveloped as a parking lot for the University of New Haven, and is improved with perimeter fencing, landscaped areas, and an underground stormwater detention system.

The remaining properties either remained undeveloped or were occupied by residential structures which were constructed between the 1950s and 1970s.

According to the May 2013 Phase II Environmental Site Investigation Report conducted by Langan, site specific subsurface conditions encountered during Langan's environmental and geotechnical investigations at the Subject Property generally consist of varying levels of fill underlain by silt, sand, glacial till, weathered rock and bedrock layers. Bedrock was encountered at depths ranging from approximately 1 to 24 feet below grade.

Copper was detected in groundwater at ELB-12(OW) above the applicable criteria and bromodichloromethane and chloroform were detected in groundwater at ELB-5(OW) below the applicable RSR criteria.

Lead was detected in the soil sample collected at HA-3, adjacent to the abandoned ASTs at 516 Boston Post Road. SVOC and ETPH were also detected in this soil sample at concentrations below applicable CTDEEP criteria. Lead was also detected above applicable criteria in the surficial soil samples collected from around 506 Boston Post Road, and 14, 34, and 38 Rockview Street where exterior lead-based paint had been identified. Lead was detected in one of these samples (HA-2 at 506 Boston Post Road) at a concentration of 17,100 mg/kg, above the industrial/commercial direct exposure criteria and the CTDEEP Significant Environmental Hazard (SEH) Reporting threshold.

The SEH detection was initially discovered on 3 April 2013, and in accordance with CGS Section 22a-6u, was reported to the CTDEEP on 1 July 2013. Following the May 2013 delineation, fencing was placed around the area where lead was detected exceeding the SEH Condition Notification Threshold Condition.

To delineate the extents of lead in subsurface soils, Langan provided oversight for the installation of an additional 33 soil borings on 30 and 31 May 2013. Four of the soil borings completed at 516 Boston Post Road (ELB-34 through ELB-37) were installed to complete investigation of potential releases at this property associated with abandoned aboveground storage tanks (ASTs) and 55-gallon drums. Elevated concentrations of ETPH and SVOCs were detected in two of these soil borings (ELB-34 and ELB-35) at concentrations exceeding CTDEEP criteria.

The removal of all soils exceeding CTDEEP criteria shall be addressed during the construction associated with this plan.

1.2 Purpose

The purpose of this MMP is to document the excavation and disposal of contaminated or potentially contaminated materials generated during the proposed development of the Subject Property. The most recent soil sampling data indicates residual ETPH, SVOC, and lead impacts in shallow soil. It is important to note that the Subject Property is not currently under order by the CTDEEP or subject to CTDEEP oversight for the implementation of these activities; however the Phase I ESA identified the historical generation of hazardous waste 488 Boston Post Road in quantities that meet the definition of an "Establishment" in accordance with the CTDEEP Property Transfer Act. The property owner has chosen to implement this MMP as a "best practice" measure.

2.0 PRE-EXCAVATION ACTIVITIES

2.1 Buried Utilities

Buried utilities in the public domain (e.g., electric, gas, water, sewers, telephone, etc.) will be located by the respective utilities. Connecticut Call-Before-You-Dig (CBYD) must be contacted prior to intrusive activities on the Subject Property.

2.2 Material Characterization

Contaminated material within the proposed construction envelope will be disposed of off-site and shall be characterized by waste characterization sampling to be completed by the Contractor. Results of this sampling will be provided to Langan and the proposed disposal facility. All sampling should be completed prior to selecting a disposal facility.

3.0 MATERIAL MANAGEMENT PLAN

3.1 Material Classifications

Material to be excavated for redevelopment of the Subject Property is expected to meet the definition of clean, polluted, or contaminated material, as defined below.

Clean Soils – Soils that meet background concentrations at the Subject Property and do not exceed CTDEEP RSR criteria.

Clean Fill – Approved fill brought onto the Subject Property that has been tested and found to have no non-naturally occurring compounds or no exceedances of any CTDEEP RSR Criteria for naturally occurring compounds. This material must be free of solid waste and organic matter (i.e. wood, glass, etc.), and shall also comply with the requirements for suitable backfill soils as specified in Section 31 00 00, Earthwork, dated May 1, 2013.

Polluted Soils – According to the CTDEEP RSRs, polluted soil is soil affected by a release of a non-naturally occurring substance at a concentration above the analytical detection limit for such substance but below the applicable CTDEEP RSR criteria in accordance with RCSA 22a-133k-1(a)(45).

Contaminated Materials – For the purposes of this MMP, contaminated materials are considered any concrete, soil, sediments, groundwater, or surface water that contains concentrations of contaminants exceeding the CTDEEP RSR criteria in accordance with RCSA 22a-133k. This material is not suitable for on-site reuse as backfill, and must be disposed of at an approved off-site disposal facility, in accordance with this MMP.

Hazardous Materials – Includes all soil/fill material that exceeds regulatory limits for hazardous substances as defined in 40 CFR, Part 261.20 Subpart C – Characteristics of Hazardous Waste. This material is not suitable for on-site reuse as backfill, and must be disposed of at an approved off-site disposal facility, in accordance with this MMP.

3.2 Erosion Control Measures

Stormwater pollution prevention and erosion control measures are shown on the design drawings prepared by BVH Integrated Services, Inc. dated April 19, 2013. Sediment and erosion control measures include the following:

- Inlet protection;
- Perimeter and excavation silt fencing;
- Disturbed area stabilization;
- Slope stabilization; and,
- Installation of a construction entrance.

3.3 Construction Entrance/Exit

A construction entrance shall be constructed at the Subject Property consisting of a minimum of 50 by 24 foot wide by 12-inch thick stabilized pad of ASTM C-33 No. 2 or 3 crushed stone. (see Soil Erosion and Sediment Control Details – C8.02 dated June 17, 2013) The construction entrance/exit shall be inspected daily for evidence of off-site sediment tracking and to maintain and clean the adjacent city streets as needed. The Contractor is responsible for personnel cleaning public roadways in front of the Subject Property as needed to prevent the off-site migration of contaminants.

3.4 Air Monitoring

Although impacts to air quality are not anticipated during the proposed redevelopment activities, a Community Air Monitoring Program (CAMP) will be implemented as a precautionary measure. Fixed air monitoring stations (AMS) will be placed at two locations (upwind and downwind) at the property boundaries to monitor for VOCs and particulates (dust) during excavation activities. The AMS will consist of a Dusttrak air monitor (or engineer approved equivalent) and a photo ionization detector (PID). Air quality shall be monitored in real time during the excavation of contaminated material and a remote alarm will be used to notify the Engineer of any exceedances of Occupational Safety and Health Administration (OSHA) thresholds. Preventative measures for dust suppression will include continuous misting of excavation activities, limiting vehicle speeds, and covering stockpiled material. Visible dust will be controlled by the Contractor using engineering controls as required (e.g., use of water trucks for misting).

Airborne particulates shall not exceed OSHA's permissible exposure limit (PEL) of 15 mg/m³ averaged over an 8 hour work day. In the event that the particulate standard is exceeded, excavation operations will cease and the work area shall be sprayed with water to reduce airborne particulates. Site operations will continue once monitoring instruments indicate that the total airborne particulates are below the particulate standard of 15 ug/m³ at the property boundary.

3.5 Excavation of Contaminated Materials

Excavation of contaminated material shall be performed using capable, well maintained equipment and methods acceptable to the Owner and Engineer. If necessary, the proposed excavation will be dewatered prior to excavation to avoid the handling of wet soil. Contaminated materials at the Subject Property will be disposed of off-site at a licensed disposal facility.

3.6 Stockpiling of Excavated Materials

Stockpiling of excavated materials is anticipated. All excavated materials will be temporarily placed onto two layers of 8-mil (minimum) polyethylene sheeting, covered with a layer of polyethylene sheeting and weighted down when not in use. If adverse weather conditions are expected, the stockpiles will be securely covered and bermed (with hay bales or "clean" soil) around the perimeter to prevent runoff and erosion. Stockpiles shall not exceed 1,000 cubic yards to avoid the need for a CTDEEP Contaminated Soil and/or Sediment Management (Staging and Transfer) General Permit. Wet or undraining soils are not permitted for stockpiling; however, should saturated soils be encountered during excavation activities, such soils will be placed in a double polyethylene lined and bermed stockpile area, not to exceed 1,000 cubic-yards (CY), and mixed with additives (i.e. cement or stone dust) to lower the moisture content and assist in drying of the soils prior to on-site reuse or off-site disposal.

3.7 On-site Reuse of Polluted Materials

Polluted excavated materials, which are deemed acceptable for reuse on-site, will be reused as fill material. Due to the designation of 488 Boston Post Road as an "Establishment", soil is not to be imported or exported from this parcel without notification and approval by the owner and engineer. Placement and compaction of this material will be conducted in accordance with the applicable Geotechnical specifications for the project.

3.8 Off-Site Disposal of Contaminated Materials

Contaminated materials are deemed un-acceptable for reuse on-site and will be disposed of at a pre-approved, stated licensed, off-site soil disposal facility capable of accepting such materials. With the exception of soils in the vicinity of HA-2, located at 506 Boston Post Road, it is believed that all excavated materials are not hazardous. Any hazardous materials shall be characterized prior to disposal at the chosen disposal facility.

The proposed disposal facilities will be determined by the Contractor and approved by the Engineer in accordance with applicable regulations prior to initiation of construction activities.

Waste characterization sampling results shall be submitted to the proposed disposal facility prior to initiation of construction activities. Should additional sampling be required to satisfy the disposal facility, the Contractor will collect and submit the appropriate samples to the proposed facilities for approval. An approval letter from the facility will be submitted to the Owner and Engineer at least 48 hours prior to removing the materials from the Subject Property.

3.9 Transportation of Contaminated Materials

All material to be disposed of off-site will be stockpiled as described in Section 3.6 or directly loaded into a container, dump truck, or trailer and immediately transported to the pre-approved stated licensed off-site soil disposal facility. The material will be handled and transported in accordance with applicable Connecticut Department of Transportation (ConnDOT) regulations and other applicable local, state, and federal regulations. All transport of materials will be performed by licensed haulers with valid permits in accordance with appropriate local, state, and federal regulations. Loaded vehicles leaving the Subject Property will be appropriately placarded, lined and securely covered in accordance with applicable federal, state, local, and ConnDOT requirements (or other applicable transportation requirements).

Material identified as non-hazardous contaminated material (i.e., non-hazardous, but exceeding CTDEEP Remediation Standard Regulations (RSRs)) based on the laboratory analytical results will be transported by a licensed hauler to be selected prior to initiation of construction activities.

3.10 Survey

Prior to initiating this MMP, the Contractor shall survey and stake the horizontal extents of the proposed development area. Upon completion of the excavation activities, the Contractor shall survey the horizontal and vertical limits of the excavation area. The surveyed information will be provided on a Site Plan to the Owner within 14 days of completion of the activities outlined in this MMP.

3.11 Employee/ Worker Health and Safety

3.11.1 Potential Exposure Pathways

As identified in Section 2.2, contaminated material is known to exist within the proposed development area. Potential exposure pathways associated with the activities outlined in this MMP include dermal absorption, inhalation, and ingestion.

Level D (or Modified Level D) Personal Protective Equipment (PPE) should be sufficient to prevent dermal absorption. Those workers whose activities involve direct contact with contaminated materials shall be provided Tyvek outerwear, gloves, and other appropriate PPE as deemed appropriate by the Contractor.

The inhalation risk shall be controlled by implementing continuous CAMP measures during the demolition and excavation activities.

Ingestion risk will be controlled by restricting eating within the work zones and by providing hand wash stations at break areas, entrances and exits.

3.11.2 Site Specific Health and Safety Plan

Prior to initiation of construction activities, the General Contractor/Subcontractors shall develop and implement a Site Specific Health and Safety Plan (HASP) in accordance with OSHA regulations 29 CFR 1910.120.

4.0 CONSTRUCTION DEWATERING

4.1 General

During Langan's 2013 subsurface investigations groundwater was observed at approximately 4 to 9 feet below grade. A wetland area is present in the southeastern portion of the Subject Property in the vicinity of 6 Waban Street. Based on the depth of the proposed excavations and the presence of wetlands on-site, dewatering is anticipated to facilitate foundation excavation, material handling, and utility installation. The Contractor shall dewater excavations in accordance with the dewatering specifications for the project (Section 31 08 02), dated May 1, 2013 and the requirements of the CTDEEP General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities

4.2 Conceptual Dewatering System

The Owner's Engineer will evaluate the discharge and, if at any time impacts are noted, will obtain a Groundwater Remediation Wastewater Discharge Permit (to the Sanitary Sewer), which the Contractor must comply with.

If impacts are identified, an effluent treatment system will be necessary to comply with the Groundwater Remediation Wastewater General Permit, and will likely consist of bag filters and two frac tanks for settling. Effluent water will be sampled in accordance with the CTDEEP General Permit for discharge.

5.0 RECORD KEEPING AND SITE VISITS

5.1 Record Keeping

All records regarding the approximate volumes of excavated material shall be monitored and maintained by the contractor and will be made readily available to the Owner and Environmental Engineer upon request. At a minimum, the contractor shall maintain the following documentation:

- Individual return truck load tickets for each load of material removed from the proposed development area and disposed off-site. Each facility scale ticket

should include the following information:

- Facility name, address, and telephone number
- Material source and surface location description
- Scale ticket number
- Associated manifest number (if applicable)
- Truck license plate number
- Trailer license plate number
- Container number
- Transporter's number
- Gross, net, and tare weight of the load (tons)
- OSHA certifications for on-site personnel conducting the activities.

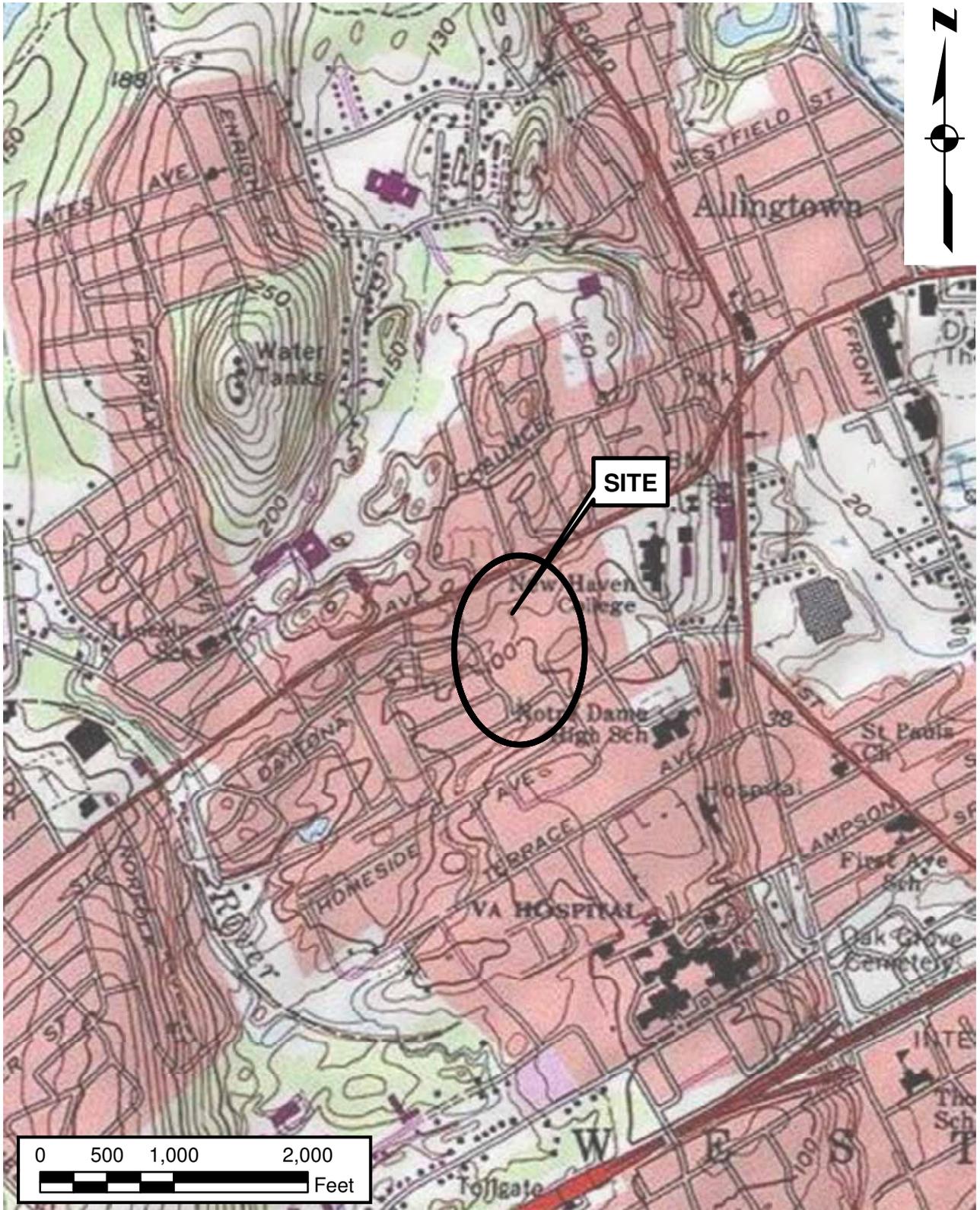
5.2 Site Visits

The Environmental Engineer will conduct oversight during the implementation of the MMP as necessary to document soil excavation, placement, and disposal, and dewatering activities, review appropriate records and verify Contractor compliance with the plan. Prior to initiating the MMP, a kickoff meeting will be held on-site to review the plan and address Contractor questions or concerns.

6.0 REPORTING

Upon completion of excavation and disposal activities, the Engineer will prepare a final report summarizing the activities completed in accordance with this MMP.

FIGURES



REFERENCES: USGS QUADRANGLE MAP FOR WEST HAVEN, CONNECTICUT



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NEW JERSEY PENNSYLVANIA NEW YORK CONNECTICUT FLORIDA NEVADA

Project

USGS MAP

ENGINEERING & SCIENCE UNIVERSITY
 MAGNET SCHOOL - ROCKVIEW SITE

WEST HAVEN

CONNECTICUT

Project No.

140068603

Date

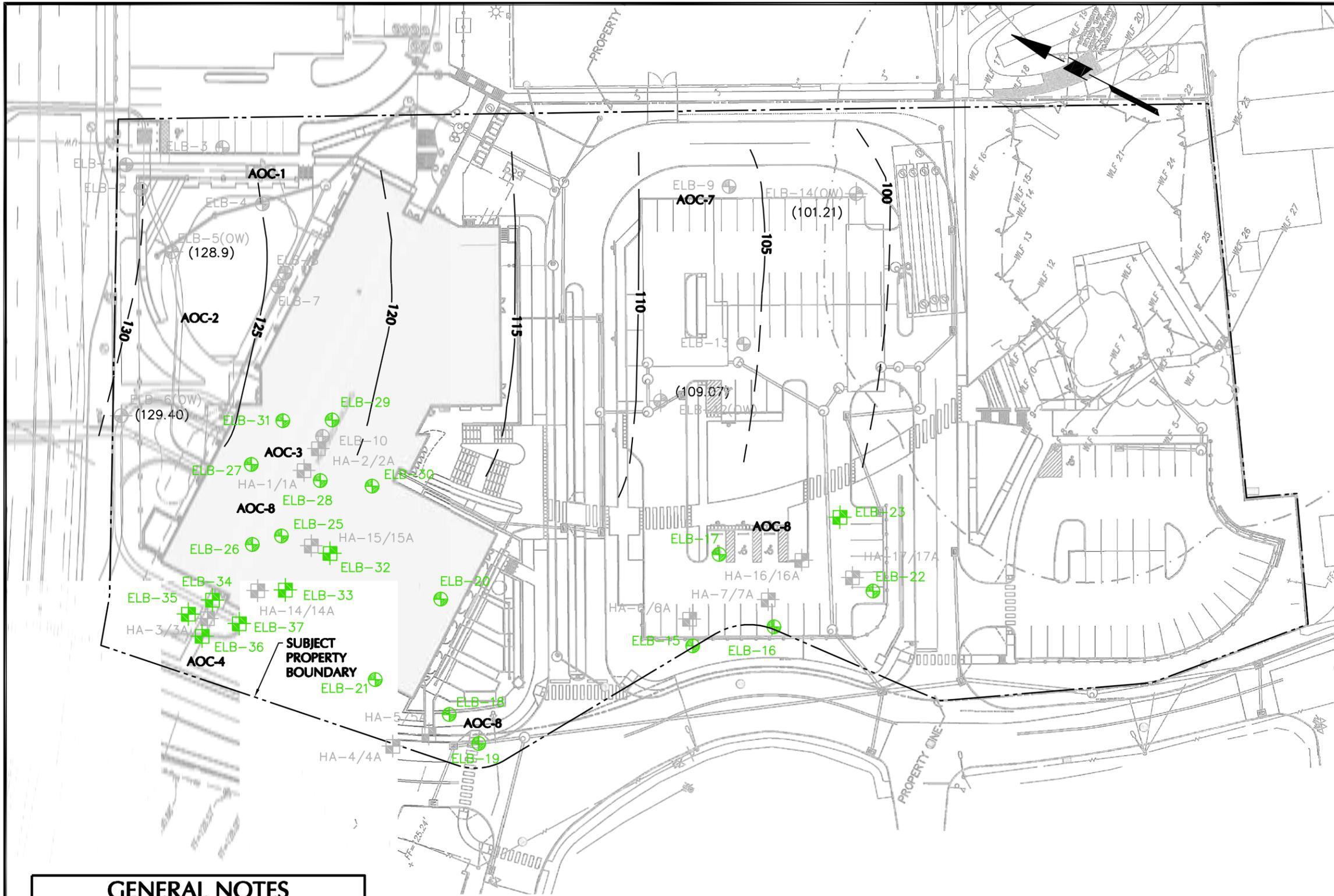
5/8/2013

Scale

1"=1,000'

Fig. No.

1



LEGEND

- ELB-34 HAND AUGER SAMPLE LOCATION
- ELB-15 GEOPROBE SOIL BORING
- HA-15/15A LANGAN PHASE II ESI HAND AUGER SAMPLE LOCATION
- ELB-11 LANGAN PHASE II ESI GEOPROBE SOIL BORING
- ELB-14(OW) LANGAN PHASE II ESI MONITORING WELL AND GROUNDWATER ELEVATION (FT)
- 103 LANGAN PHASE II ESI GROUNDWATER CONTOUR AND ELEVATION (FT)
- INFERRED GROUNDWATER CONTOURS
- SUBJECT PROPERTY BOUNDARY
- LEAD IMPACTED SOIL AREA (0 - 1 FT)
- LEAD IMPACTED SOIL AREA (1 - 2 FT)

AOC DESCRIPTIONS

- AOC-1 - Former Site Uses/Activities at 488 Boston Post Road
- AOC-2 - Former Site Use/Activities at 496 Boston Post Road
- AOC-3 - Aboveground Storage Tank at 506 Boston Post Road
- AOC-4 - Abandoned ASTs, drums and trash at 516 Boston Post Road
- AOC-5 - Surrounding Properties
- AOC-6 - Fill Material
- AOC-7 - Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street
- AOC-8 - Lead Impacted Soil at 506 Boston Post Road, 14, 34, and 38 Rockview Street

GENERAL NOTES

1. BASE MAP TAKEN FROM PLANNING AND ZONING SUBMISSION SET BY SVIGALS + PARTNERS ARCHITECTS DATED APRIL 19, 2013 - OVERALL SITE PLAN SHEET C0.02.
2. ALL BORING AND HAND AUGER LOCATIONS ARE APPROXIMATE. MONITORING WELL LOCATIONS WERE SURVEYED IN THE FIELD BY A LICENSED SURVEYOR.
3. ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD) 88.



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Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan International LLC
Collectively known as Langan

Project

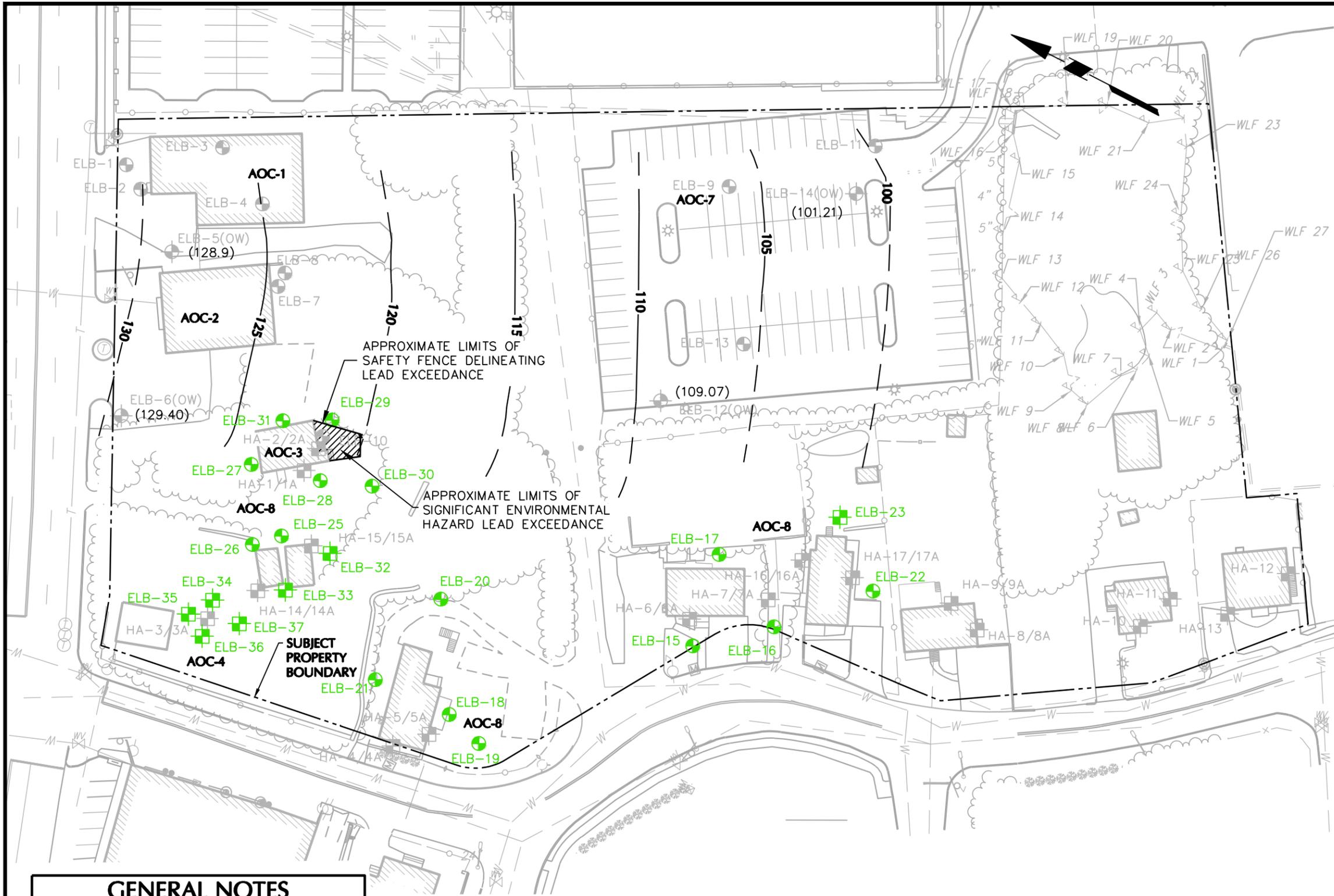
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL - ROCKVIEW SITE

WEST HAVEN CONNECTICUT

Drawing Title

Sampling Location Plan (Proposed Development)

Project No. 140068603	<h1 style="font-size: 2em;">FIG 2</h1>
Date 6/13/13	
Scale 1"=60'	
Drawn By KTZ	
Submission Date 6/13/13	

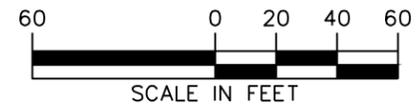


LEGEND	
	ELB-34 HAND AUGER SAMPLE LOCATION
	ELB-15 GEOPROBE SOIL BORING
	HA-15/15A LANGAN PHASE II ESI HAND AUGER SAMPLE LOCATION
	ELB-11 LANGAN PHASE II ESI GEOPROBE SOIL BORING
	ELB-14(OW) LANGAN PHASE II ESI MONITORING WELL AND GROUNDWATER ELEVATION (FT)
	103 LANGAN PHASE II ESI GROUNDWATER CONTOUR AND ELEVATION (FT)
	INFERRED GROUNDWATER CONTOURS
	SUBJECT PROPERTY BOUNDARY

AOC DESCRIPTIONS	
AOC-1	- Former Site Uses/Activities at 488 Boston Post Road
AOC-2	- Former Site Use/Activities at 496 Boston Post Road
AOC-3	- Aboveground Storage Tank at 506 Boston Post Road
AOC-4	- Abandoned ASTs, drums and trash at 516 Boston Post Road
AOC-5	- Surrounding Properties
AOC-6	- Fill Material
AOC-7	- Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street
AOC-8	- Lead Impacted Soil at 506 Boston Post Road, 14, 34, and 38 Rockview Street

GENERAL NOTES

- BOUNDARY AND TOPOGRAPHIC INFORMATION WAS OBTAINED FROM A SURVEY COMPLETED BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, DATED 4/4/13.
- ALL BORING AND HAND AUGER LOCATIONS ARE APPROXIMATE. MONITORING WELL LOCATIONS WERE SURVEYED IN THE FIELD BY A LICENSED SURVEYOR.
- ELEVATIONS ARE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD) 88.



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Project
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL
506 BOSTON POST ROAD
 WEST HAVEN CONNECTICUT

Drawing Title
Sampling Location Plan (Existing Conditions)

Project No. 140068605	Drawing No. FIG 3
Date 6/13/13	
Scale 1"=60'	
Drawn By KTZ	
Submission Date 7/17/13	

TABLES

Table 1
Phase II Environmental Site Investigation Results
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Parameters	Depth of Sample (ft)	Residential Direct Exposure Criteria (mg/kg)	Indus./Comm. Direct Exposure Criteria (mg/kg)	GA/GAA Pollutant Mobility Criteria (mg/kg)	ELB-1	ELB-2	ELB-3	ELB-4	ELB-7	ELB-8	ELB-9	ELB-10	ELB-13	HA-1	HA-2	HA-3	HA-4	HA-5	HA-6	HA-7	HA-14	HA-15	HA-16	HA-17	
					10 - 11	9 - 11	5 - 7	4 - 5	5 - 7	3 - 4	3 - 4	1 - 2	4 - 5	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0	0.5 - 1.0
Sample Date	3/13/13	3/13/13	3/13/13	3/13/13	3/13/13	3/13/13	3/13/13	3/13/13	3/13/13	3/13/13	3/13/13	3/13/13	3/13/13	3/14/13	3/14/13	3/14/13	3/14/13	3/14/13	3/14/13	3/14/13	3/14/13	3/14/13	3/14/13	3/28/13	
VOCs (mg/kg)																									
Acetone	500	1,000	14	NA	NA	ND<0.009	ND<0.0083	NA	NA	0.029	NA	ND<0.01	NA	NA	0.27	NA									
SVOCs (mg/kg)																									
Benzo(a)anthracene	1	7.8	1	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	ND<0.475	NA									
Benzo(a)pyrene	1	1	1	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	ND<0.475	NA									
Benzo(b)fluoranthene	1	7.8	1	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	ND<0.475	NA									
Benzo(k)fluoranthene	8.4	78	1	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	ND<0.475	NA									
Chrysene	84*	780*	1*	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	0.479	NA									
Fluoranthene	1,000	2,500	5.6	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	1.03	NA									
Phenanthrene	1,000	2,500	4	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	0.51	NA									
Pyrene	1,000	2,500	4	ND<0.185	ND<0.182	ND<0.203	ND<0.186	ND<0.218	ND<0.183	ND<0.201	ND<0.211	ND<0.194	NA	NA	1.04	NA									
PCBs (mg/kg)																									
	1	10	--	NA	NA	ND<0.0304	ND<0.0279	NA	NA	ND<0.0301	NA	ND<0.0291	NA	NA	ND<0.0475	NA									
Metals (mg/kg)																									
Arsenic	10	10	--	NA	NA	3.18	3.04	NA	NA	2.36	NA	2.78	NA	NA	5.23	NA									
Barium	4,700	140,000	--	NA	NA	31.9	30.4	NA	NA	30.6	NA	31.5	NA	NA	97.7	NA									
Cadmium	34	1,000	--	NA	NA	ND<0.609	ND<0.559	NA	NA	ND<0.602	NA	ND<0.583	NA	NA	ND<0.949	NA									
Chromium	NE	NE	--	NA	NA	31.4	29.8	NA	NA	8.48	NA	12.6	NA	NA	20.9	NA									
Copper	2,500	76,000	--	NA	NA	34.3	32.2	NA	NA	4.74	NA	11.1	NA	NA	40.7	NA									
Lead	400 ⁽¹⁾	1,000	--	NA	NA	4.32	4.20	NA	NA	15.2	NA	25.9	713	17100	453	36	410	92.9	149	834	428	56.4	140	NA	NA
Nickel	1,400	7,500	--	NA	NA	26.6	26.8	NA	NA	7.75	NA	11.5	NA	NA	24.8	NA									
Selenium	340	10,000	--	NA	NA	3.16	3.05	NA	NA	0.941	NA	1.96	NA	NA	ND<0.949	NA									
Vanadium	470	14,000	--	NA	NA	35.8	35.0	NA	NA	17.5	NA	25.2	NA	NA	41.2	NA									
Zinc	20,000	610,000	--	NA	NA	34.0	28.6	NA	NA	19.6	NA	36.4	NA	NA	200	NA									
SPLP Lead (mg/L)																									
	--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TCLP Lead (mg/L)																									
	--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.562	0.673	NA	0.174	0.290	0.0287	0.0342	2.88	0.0629	0.0392	0.0410	NA
CT ETPH (mg/kg)																									
	500	2,500	500	ND<11.1	ND<10.9	ND<12.2	ND<11.2	ND<13.1	ND<11.0	ND<12.0	29.2	30.8	NA	NA	65.7	NA									

NOTES:

NE = Criteria not established

ND = Not detected

NA = Not analyzed

* = 1996 criteria not established, 2008 criteria used

(1) Codified criterion for lead RDEC is 500 ppm, but the recommended cleanup criterion is 400 ppm to be protective of human health

Trip Blank had detections of Acetone (2.4 ug/L) and Toluene (0.67 ug/L)

Bold indicates an exceedance of the GA Pollutant Mobility Criteria

Italics indicates an exceedance of the Residential Direct Exposure Criteria

Shading indicates an exceedance of the Indus./Comm. Direct Exposure Criteria

Table 1
Phase II Environmental Site Investigation Results
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Parameters	Depth of Sample (ft)	Residential Direct Exposure Criteria (mg/kg)	Indus./Comm. Direct Exposure Criteria (mg/kg)	GA/GAA Pollutant Mobility Criteria (mg/kg)	HA-1A	DUP	HA-2A	HA-4A	HA-5A	HA-6A	HA-7A	HA-15A	HA-16A	HA-17A	ELB-15	ELB-15	ELB-16	ELB-16	ELB-17	ELB-17	ELB-18	ELB-18	ELB-19	ELB-19	ELB-20	ELB-21	ELB-22	ELB-22	ELB-23	ELB-23	ELB-25	ELB-26	ELB-27	ELB-27			
					1.5 - 2	(HA-1A)	1.5 - 2	1.5 - 2	1.5 - 2	1.0 - 1.5	1.5 - 2	1.5 - 2	1.5 - 2	1.5 - 2	0.5 - 1	1.5 - 2	0.5 - 1	1.5 - 2	0.5 - 1	1.5 - 2	0.5 - 1	1.5 - 2	0.5 - 1	1.5 - 2	0.5 - 1	1.5 - 2	0.5 - 1	1.5 - 2	0.5 - 1	1.5 - 2	0.5 - 1	1.5 - 2	0.5 - 1	1.5 - 2	0.5 - 1	1.5 - 2	0.5 - 1
Sample Date					5/30/13	5/30/13	5/30/13	5/31/13	5/31/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13		
VOCs (mg/kg)																																					
Acetone	500	1,000	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
SVOCs (mg/kg)																																					
Benzo(a)anthracene	1	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Benzo(a)pyrene	1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo(b)fluoranthene	1	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Benzo(k)fluoranthene	8.4	78	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chrysene	84*	780*	1*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Fluoranthene	1,000	2,500	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Phenanthrene	1,000	2,500	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Pyrene	1,000	2,500	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
PCBs (mg/kg)																																					
	1	10	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Metals (mg/kg)																																					
Arsenic	10	10	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Barium	4,700	140,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Cadmium	34	1,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Chromium	NE	NE	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Copper	2,500	76,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Lead	400 ⁽¹⁾	1,000	--	106	55.4	20.2	50.9	131	84	123	8.3	259	34.7	23.8	11.9	131	9.93	142	56.1	170	15.8	81.2	25.9	242	64.8	95.3	13.6	36.5	17.4	67.7	1640	835	ND<0.301	ND<0.301			
Nickel	1,400	7,500	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Selenium	340	10,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Vanadium	470	14,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zinc	20,000	610,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SPLP Lead (mg/L)	--	--	0.015	0.0364	0.0294	0.0105	0.0230	0.0775	0.0364	0.0164	0.00579	0.0116	0.00782	0.0103	ND<0.003	0.0548	0.0141	0.0339	0.0136	0.086	ND<0.003	0.0107	0.00696	0.0566	0.00999	0.0265	0.00681	0.00959	ND<0.003	0.0193	0.195	0.153	ND<0.003	ND<0.003			
TCLP Lead (mg/L)	--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
CT ETPH (mg/kg)	500	2,500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

NOTES:
 NE = Criteria not established
 ND = Not detected
 NA = Not analyzed
 * = 1996 criteria not established, 2008 criteria used
 (1) Codified criterion for lead RDEC is 500 ppm, but the recommended cleanup criterion is 400 ppm to be protective of human health
 Trip Blank had detections of Acetone (2.4 ug/L) and Toluene (0.67 ug/L)
Bold indicates an exceedance of the GA Pollutant Mobility Criteria
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Phase II Environmental Site Investigation Results
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Parameters	Depth of Sample (ft) Sample Date	Residential Direct Exposure Criteria (mg/kg)	Indus./Comm. Direct Exposure Criteria (mg/kg)	GA/GAA Pollutant Mobility Criteria (mg/kg)	ELB-28	ELB-28	ELB-29	ELB-29	ELB-30	ELB-31	ELB-31	ELB-32	ELB-32	ELB-33	ELB-34	DUP-2	ELB-35	ELB-36	ELB-37
					0.5 - 1	1.5 - 2	0.5 - 1	1.5 - 2	0.5 - 1	0.5 - 1	1.5 - 2	0.5 - 1	1.5 - 2	0.5 - 1	0.25 - 0.5	(ELB-34)	0.25 - 0.5	0.25 - 0.5	0.25 - 0.5
					5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/30/13	5/31/13	5/31/13	5/31/13	5/31/13	5/31/13	5/31/13	5/31/13	5/31/13
VOCs (mg/kg)																			
Acetone		500	1,000	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<0.027	NA	0.240	0.024	0.021
SVOCs (mg/kg)																			
Benzo(a)anthracene		1	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	3.58	ND<0.358	ND<0.389
Benzo(a)pyrene		1	1	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	3.54	0.379	ND<0.389
Benzo(b)fluoranthene		1	7.8	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.910	NA	6.42	0.487	ND<0.389
Benzo(k)fluoranthene		8.4	78	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	3.98	0.431	ND<0.389
Chrysene		84*	780*	1*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	4.12	0.383	ND<0.389
Fluoranthene		1,000	2,500	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.170	NA	9.79	0.820	ND<0.389
Phenanthrene		1,000	2,500	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.720	NA	6.40	0.441	ND<0.389
Pyrene		1,000	2,500	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.240	NA	10.20	0.759	ND<0.389
PCBs (mg/kg)																			
		1	10	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)																			
Arsenic		10	10	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.75	NA	5.50	5.36	5.90
Barium		4,700	140,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	99.4	NA	615	54.3	148
Cadmium		34	1,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<0.686	NA	ND<0.878	2.22	ND<0.778
Chromium		NE	NE	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34.2	NA	43.1	24.4	22.0
Copper		2,500	76,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead		400 ⁽¹⁾	1,000	--	71.8	3.67	282	7.84	310	24.6	1.38	528	677	497	309	336	1780	494	691
Nickel		1,400	7,500	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium		340	10,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.04	NA	2.11	2.71	1.68
Vanadium		470	14,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc		20,000	610,000	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SPLP Lead (mg/L)																			
		--	--	0.015	0.0664	ND<0.003	0.0444	ND<0.003	0.0265	ND<0.003	ND<0.003	0.0960	0.110	0.124	0.0280	0.0205	0.111	0.131	0.0652
TCLP Lead (mg/L)																			
		--	--	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CT ETPH (mg/kg)																			
		500	2,500	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	204	NA	592	132	62.8

NOTES:

NE = Criteria not established

ND = Not detected

NA = Not analyzed

* = 1996 criteria not established, 2008 criteria used

(1) Codified criterion for lead RDEC is 500 ppm, but the recommended cleanup criterion is 400 ppm to be protective of human health

Trip Blank had detections of Acetone (2.4 ug/L) and Toluene (0.67 ug/L)

Bold indicates an exceedance of the GA Pollutant Mobility Criteria

Italics indicates an exceedance of the Residential Direct Exposure Criteria

Shading indicates an exceedance of the Indus./Comm. Direct Exposure Criteria

Table 2
Groundwater Analytical Results Summary
Engineering & Science University Magnet School
West Haven, Connecticut
Langan Project No.: 140068603

Parameters	Well Location Sample Date	Surface Water Protection Criteria	Residential Volatilization Criteria	Industrial/Commercial Volatilization Criteria	ELB-5(OW) 3/19/13	ELB-6(OW) 3/19/13	ELB-12(OW) 3/19/13	DUP ELB-12(OW) 3/19/13	ELB-14(OW) 3/19/13
VOCs (µg/L)									
Bromodichloromethane		1,394*	2*	80*	0.98	ND<0.50	ND<0.50	ND<0.50	ND<0.50
Chloroform		14,100	287	710	12	ND<0.50	ND<0.50	ND<0.50	ND<0.50
2-Butanone (MEK)		10,000*	50,000	50,000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
2-Hexanone (MBK)		NE	NE	NE	ND<0.50	0.51	0.67	ND<0.50	ND<0.50
1,2,4-Trimethylbenzene		160*	122*	1,485*	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.62
ETPH (µg/L)									
		250	250	250	ND<81.1	ND<81.1	ND<78.9	ND<78.9	ND<81.1
PCBs (µg/L)									
		0.5	0.5*	3,600*	ND<0.0541	ND<0.0541	ND<0.0526	ND<0.0526	ND<0.0541
SVOCs (PAHs) (µg/L)									
Bis(2-ethylhexyl)phthalate		59	NE	NE	3.69	17.1	1.05	266	0.627
Metals (µg/L)									
Antimony		86,000	NE	NE	ND<1.0	ND<1.0	1.0	ND<1.0	ND<1.0
Arsenic		4	NE	NE	ND<1.0	ND<1.0	1.0	1.0	1.0
Barium		2,200*	NE	NE	23	123	358	396	143
Cadmium		6	NE	NE	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.0
Chromium		NE	NE	NE	3.0	4.0	4.0	5.0	5.0
Copper		48	NE	NE	5.0	11	89	40	18
Lead		13	NE	NE	1.0	ND<1.0	ND<1.0	2.0	ND<1.0
Nickel		880	NE	NE	2.0	5.0	7.0	8.0	24
Selenium		50	NE	NE	ND<1.0	ND<1.0	3.0	3.0	3.0
Vanadium		440*	NE	NE	1.0	ND<1.0	1.0	1.0	2.0
Zinc		123	NE	NE	25	6.0	12	14	17

NOTES:

NE = Criteria not established

ND = Not detected

* = 1996 criteria not established, 2008 criteria used

Field Blank had detections of 2-Butanone (3.3 ug/L), ETPH (98.5 ug/L), Bis(2-ethylhexyl)phthalate (30.8 ug/L) and Zinc (15 ug/L)

Bold indicates an exceedance of the SWPC

APPENDIX A

Laboratory Analytical Results

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive

New Haven CT, 06511

Attention: Kyle Zalaski

Report Date: 03/21/2013

Client Project ID: 140068601

York Project (SDG) No.: 13C0445

CT License No. PH-0723

New Jersey License No. CT-005



New York License No. 10854

PA License No. 68-04440

Report Date: 03/21/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0445

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 14, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
13C0445-01	TRIP BLANK	Water	03/13/2013	03/14/2013
13C0445-02	ELB-8 3'-4'	Soil	03/13/2013	03/14/2013
13C0445-03	ELB-7 5'-7'	Soil	03/13/2013	03/14/2013
13C0445-04	ELB-1 10'-11'	Soil	03/13/2013	03/14/2013
13C0445-05	ELB-2 9'-11'	Soil	03/13/2013	03/14/2013
13C0445-06	ELB-10 1'-2'	Soil	03/13/2013	03/14/2013
13C0445-07	ELB-3 5'-7'	Soil	03/13/2013	03/14/2013
13C0445-08	ELB-4 4'-5'	Soil	03/13/2013	03/14/2013
13C0445-09	ELB-9 3'-4'	Soil	03/13/2013	03/14/2013
13C0445-10	ELB-13 4'-5'	Soil	03/13/2013	03/14/2013

General Notes for York Project (SDG) No.: 13C0445

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Robert Q. Bradley
Laboratory Director

Date: 03/21/2013

YORK

Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 13C0445-01

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 13, 2013 12:00 am

Date Received
03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.024	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.074	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.070	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.11	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.12	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.11	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.46	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.15	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.051	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.059	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.096	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
78-93-3	2-Butanone	ND		ug/L	1.0	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.084	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
591-78-6	2-Hexanone	ND		ug/L	0.24	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.072	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
67-64-1	Acetone	2.4		ug/L	0.90	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
107-13-1	Acrylonitrile	ND		ug/L	0.73	1.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
71-43-2	Benzene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-86-1	Bromobenzene	ND		ug/L	0.081	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
74-97-5	Bromochloromethane	ND		ug/L	0.10	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.054	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS

Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 13C0445-01

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 13, 2013 12:00 am

Date Received
03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-25-2	Bromoform	ND		ug/L	0.079	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-15-0	Carbon disulfide	ND		ug/L	0.065	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.085	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-90-7	Chlorobenzene	ND		ug/L	0.063	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-00-3	Chloroethane	ND		ug/L	0.090	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
67-66-3	Chloroform	ND		ug/L	0.079	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
74-87-3	Chloromethane	ND		ug/L	0.076	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.069	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.067	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.053	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
74-95-3	Dibromomethane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.092	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.057	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.056	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.22	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.48	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-09-2	Methylene chloride	ND		ug/L	0.26	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
91-20-3	Naphthalene	ND		ug/L	0.090	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.083	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
95-47-6	o-Xylene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.090	1.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
100-42-5	Styrene	ND		ug/L	0.043	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.070	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
109-99-9	Tetrahydrofuran	ND		ug/L	1.0	2.0	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
108-88-3	Toluene	0.67		ug/L	0.042	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.085	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.060	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.092	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS

Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 13C0445-01

<u>York Project (SDG) No.</u> 13C0445	<u>Client Project ID</u> 140068601	<u>Matrix</u> Water	<u>Collection Date/Time</u> March 13, 2013 12:00 am	<u>Date Received</u> 03/14/2013
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Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-01-6	Trichloroethylene	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.094	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.062	0.50	1	SW8260B	03/21/2013 08:00	03/21/2013 17:08	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	111 %			70-130						
460-00-4	Surrogate: p-Bromofluorobenzene	110 %			70-130						
2037-26-5	Surrogate: Toluene-d8	103 %			70-130						

Sample Information

Client Sample ID: ELB-8 3'-4'

York Sample ID: 13C0445-02

<u>York Project (SDG) No.</u> 13C0445	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 13, 2013 10:40 am	<u>Date Received</u> 03/14/2013
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Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	100	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	55.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
62-53-3	Aniline	ND		ug/kg dry	44.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
120-12-7	Anthracene	ND		ug/kg dry	56.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	54.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	91.7	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	119	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	125	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	81.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	124	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	111	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	61.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	93.2	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	66.1	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	88.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	161	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	92.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	57.0	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	99.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR

Sample Information

Client Sample ID: ELB-8 3'-4'

York Sample ID: 13C0445-02

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 10:40 am

Date Received
03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
218-01-9	Chrysene	ND		ug/kg dry	55.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	89.2	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	106	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	158	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	69.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	62.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	116	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	29.3	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	57.0	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	73.1	365	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	128	365	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	63.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	128	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	67.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	51.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
206-44-0	Fluoranthene	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
86-73-7	Fluorene	ND		ug/kg dry	116	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	73.1	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	91.0	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	45.7	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	107	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
78-59-1	Isophorone	ND		ug/kg dry	74.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	48.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	57.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
91-20-3	Naphthalene	ND		ug/kg dry	55.9	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	46.8	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	122	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	130	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	50.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	55.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	157	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR

Sample Information

Client Sample ID: ELB-8 3'-4'

York Sample ID: 13C0445-02

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 10:40 am

Date Received
03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	183	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	94.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	48.1	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	80.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
85-01-8	Phenanthrene	ND		ug/kg dry	48.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
108-95-2	Phenol	ND		ug/kg dry	49.3	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
129-00-0	Pyrene	ND		ug/kg dry	136	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
110-86-1	Pyridine	ND		ug/kg dry	96.5	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	66.4	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	28.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	37.6	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	60.7	183	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:05	SR

Surrogate Recoveries

Result

Acceptance Range

5175-83-7	Surrogate: 2,4,6-Tribromophenol	130 %	S-04	15-110
321-60-8	Surrogate: 2-Fluorobiphenyl	91.0 %		30-130
367-12-4	Surrogate: 2-Fluorophenol	98.4 %		15-110
4165-60-0	Surrogate: Nitrobenzene-d5	94.6 %		30-130
4165-62-2	Surrogate: Phenol-d5	105 %		15-110
1718-51-0	Surrogate: Terphenyl-d14	115 %		30-130

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbons)	ND		mg/kg dry	2.33	11.0	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW
3386-33-2	Surrogate: 1-Chlorooctadecane	108 %			40.5-152						

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	91.2		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-7 5'-7'

York Sample ID: 13C0445-03

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 10:25 am

Date Received
03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: ELB-7 5'-7'

York Sample ID: 13C0445-03

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 10:25 am

Date Received
03/14/2013

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	120	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	66.7	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
62-53-3	Aniline	ND		ug/kg dry	53.2	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
120-12-7	Anthracene	ND		ug/kg dry	67.6	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	65.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	109	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	142	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	149	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	97.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	148	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	133	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	73.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	111	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	79.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	106	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	192	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	111	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	68.1	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	119	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
218-01-9	Chrysene	ND		ug/kg dry	66.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	106	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	126	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	188	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	83.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	75.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	138	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	35.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	68.1	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	87.2	436	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	153	436	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	76.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	152	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	80.7	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	61.5	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
206-44-0	Fluoranthene	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR

Sample Information

Client Sample ID: ELB-7 5'-7'

York Sample ID: 13C0445-03

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 10:25 am

Date Received
03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-73-7	Fluorene	ND		ug/kg dry	139	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	87.2	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	109	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	54.5	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	128	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
78-59-1	Isophorone	ND		ug/kg dry	89.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	58.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	68.5	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
91-20-3	Naphthalene	ND		ug/kg dry	66.7	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	55.8	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	145	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	155	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	60.2	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	66.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	188	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	218	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	113	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	57.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	96.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
85-01-8	Phenanthrene	ND		ug/kg dry	58.0	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
108-95-2	Phenol	ND		ug/kg dry	58.9	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
129-00-0	Pyrene	ND		ug/kg dry	162	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
110-86-1	Pyridine	ND		ug/kg dry	115	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	79.3	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	34.2	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	44.9	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	72.4	218	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 10:36	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	Surrogate: 2,4,6-Tribromophenol	89.2 %	15-110
321-60-8	Surrogate: 2-Fluorobiphenyl	63.8 %	30-130
367-12-4	Surrogate: 2-Fluorophenol	69.1 %	15-110
4165-60-0	Surrogate: Nitrobenzene-d5	62.5 %	30-130

Sample Information

Client Sample ID: ELB-7 5'-7'

York Sample ID: 13C0445-03

<u>York Project (SDG) No.</u> 13C0445	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 13, 2013 10:25 am	<u>Date Received</u> 03/14/2013
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Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4165-62-2	Surrogate: Phenol-d5	72.6 %			15-110						
1718-51-0	Surrogate: Terphenyl-d14	81.0 %			30-130						

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbons)	ND		mg/kg dry	2.79	13.1	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW
	Surrogate Recoveries	Result			Acceptance Range						
3386-33-2	Surrogate: 1-Chlorooctadecane	120 %			40.5-152						

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	76.4		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-1 10'-11'

York Sample ID: 13C0445-04

<u>York Project (SDG) No.</u> 13C0445	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 13, 2013 9:10 am	<u>Date Received</u> 03/14/2013
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Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	102	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	56.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
62-53-3	Aniline	ND		ug/kg dry	45.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
120-12-7	Anthracene	ND		ug/kg dry	57.3	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	55.5	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	92.8	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	121	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	126	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	82.5	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	126	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	113	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	62.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	94.3	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	66.9	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR

Sample Information

Client Sample ID: ELB-1 10'-11'

York Sample ID: 13C0445-04

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 9:10 am

Date Received
03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	89.9	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	163	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	93.9	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	57.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	101	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
218-01-9	Chrysene	ND		ug/kg dry	56.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	90.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	107	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	160	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	70.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	63.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	117	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	29.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	57.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	74.0	370	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	129	370	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	64.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	129	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	68.4	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	52.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
206-44-0	Fluoranthene	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
86-73-7	Fluorene	ND		ug/kg dry	118	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	74.0	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	92.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	46.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	109	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
78-59-1	Isophorone	ND		ug/kg dry	75.8	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	49.5	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	58.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
91-20-3	Naphthalene	ND		ug/kg dry	56.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	47.3	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR

Sample Information

Client Sample ID: ELB-1 10'-11'

York Sample ID: 13C0445-04

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 9:10 am

Date Received
03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-01-6	4-Nitroaniline	ND		ug/kg dry	123	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	131	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	51.0	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	56.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	159	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	185	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	95.8	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	48.7	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	81.4	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
85-01-8	Phenanthrene	ND		ug/kg dry	49.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
108-95-2	Phenol	ND		ug/kg dry	49.9	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
129-00-0	Pyrene	ND		ug/kg dry	137	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
110-86-1	Pyridine	ND		ug/kg dry	97.6	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	67.2	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	29.0	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	38.1	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	61.4	185	1	EPA SW-846 8270C	03/16/2013 10:37	03/21/2013 11:07	SR
Surrogate Recoveries		Result		Acceptance Range							
5175-83-7	Surrogate: 2,4,6-Tribromophenol	120 %	S-04	15-110							
321-60-8	Surrogate: 2-Fluorobiphenyl	88.7 %		30-130							
367-12-4	Surrogate: 2-Fluorophenol	93.5 %		15-110							
4165-60-0	Surrogate: Nitrobenzene-d5	84.3 %		30-130							
4165-62-2	Surrogate: Phenol-d5	98.2 %		15-110							
1718-51-0	Surrogate: Terphenyl-d14	112 %		30-130							

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbons)	ND		mg/kg dry	2.36	11.1	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW
Surrogate Recoveries		Result		Acceptance Range							
3386-33-2	Surrogate: 1-Chlorooctadecane	113 %		40.5-152							

Sample Information

Client Sample ID: ELB-1 10'-11'

York Sample ID: 13C0445-04

<u>York Project (SDG) No.</u> 13C0445	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 13, 2013 9:10 am	<u>Date Received</u> 03/14/2013
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Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	90.1		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-2 9'-11'

York Sample ID: 13C0445-05

<u>York Project (SDG) No.</u> 13C0445	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 13, 2013 9:30 am	<u>Date Received</u> 03/14/2013
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Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	100	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	55.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
62-53-3	Aniline	ND		ug/kg dry	44.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
120-12-7	Anthracene	ND		ug/kg dry	56.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	54.6	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	91.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	119	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	125	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	81.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	124	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	111	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	61.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	92.9	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	65.9	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	88.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	160	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	92.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	56.8	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	99.1	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
218-01-9	Chrysene	ND		ug/kg dry	55.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	88.9	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	105	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	157	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	69.6	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR

Sample Information

Client Sample ID: ELB-2 9'-11'

York Sample ID: 13C0445-05

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 9:30 am

Date Received
03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	62.6	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	115	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	29.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	56.8	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	72.8	364	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	127	364	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	63.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	127	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	67.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	51.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
206-44-0	Fluoranthene	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
86-73-7	Fluorene	ND		ug/kg dry	116	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	72.8	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	90.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	45.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	107	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
78-59-1	Isophorone	ND		ug/kg dry	74.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	48.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	57.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
91-20-3	Naphthalene	ND		ug/kg dry	55.7	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	46.6	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	121	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	129	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	50.3	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	55.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	157	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	182	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	94.3	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	47.9	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	80.1	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
85-01-8	Phenanthrene	ND		ug/kg dry	48.4	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR

Sample Information

Client Sample ID: ELB-2 9'-11'

York Sample ID: 13C0445-05

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 9:30 am

Date Received
03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		ug/kg dry	49.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
129-00-0	Pyrene	ND		ug/kg dry	135	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
110-86-1	Pyridine	ND		ug/kg dry	96.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	66.2	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	28.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	37.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	60.5	182	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:27	SR

Surrogate Recoveries

Result

Acceptance Range

5175-83-7	Surrogate: 2,4,6-Tribromophenol	63.2 %									
321-60-8	Surrogate: 2-Fluorobiphenyl	78.6 %									
367-12-4	Surrogate: 2-Fluorophenol	60.6 %									
4165-60-0	Surrogate: Nitrobenzene-d5	66.4 %									
4165-62-2	Surrogate: Phenol-d5	65.7 %									
1718-51-0	Surrogate: Terphenyl-d14	68.6 %									

15-110

30-130

15-110

30-130

15-110

30-130

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbons)	ND		mg/kg dry	2.33	10.9	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

Surrogate Recoveries

Result

Acceptance Range

3386-33-2	Surrogate: 1-Chlorooctadecane	114 %									
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40.5-152

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	91.5		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-10 1'-2'

York Sample ID: 13C0445-06

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 11:00 am

Date Received
03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	116	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	64.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
62-53-3	Aniline	ND		ug/kg dry	51.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR

Sample Information

Client Sample ID: ELB-10 1'-2'

York Sample ID: 13C0445-06

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 11:00 am

Date Received
03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-12-7	Anthracene	ND		ug/kg dry	65.3	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	63.2	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	106	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	137	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	144	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	94.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	143	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	129	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	70.8	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	107	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	76.3	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	102	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	185	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	107	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	65.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	115	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
218-01-9	Chrysene	ND		ug/kg dry	64.1	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	103	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	122	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	182	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	80.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	72.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	134	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	33.8	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	65.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	84.3	421	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	147	421	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	73.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	147	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	78.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	59.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
206-44-0	Fluoranthene	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
86-73-7	Fluorene	ND		ug/kg dry	134	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	84.3	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR

Sample Information

Client Sample ID: ELB-10 1'-2'

York Sample ID: 13C0445-06

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 11:00 am

Date Received
03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	105	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	52.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	124	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
78-59-1	Isophorone	ND		ug/kg dry	86.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	56.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	66.2	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
91-20-3	Naphthalene	ND		ug/kg dry	64.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	53.9	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	140	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	150	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	58.2	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	64.1	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	182	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	211	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	109	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	55.5	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	92.7	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
85-01-8	Phenanthrene	ND		ug/kg dry	56.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
108-95-2	Phenol	ND		ug/kg dry	56.9	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
129-00-0	Pyrene	ND		ug/kg dry	156	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
110-86-1	Pyridine	ND		ug/kg dry	111	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	76.6	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	33.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	43.4	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	70.0	211	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 16:58	SR

	Surrogate Recoveries	Result	Acceptance Range
5175-83-7	Surrogate: 2,4,6-Tribromophenol	47.9 %	15-110
321-60-8	Surrogate: 2-Fluorobiphenyl	55.1 %	30-130
367-12-4	Surrogate: 2-Fluorophenol	43.8 %	15-110
4165-60-0	Surrogate: Nitrobenzene-d5	45.2 %	30-130
4165-62-2	Surrogate: Phenol-d5	48.3 %	15-110
1718-51-0	Surrogate: Terphenyl-d14	51.0 %	30-130

Sample Information

Client Sample ID: ELB-10 1'-2'

York Sample ID: 13C0445-06

<u>York Project (SDG) No.</u> 13C0445	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 13, 2013 11:00 am	<u>Date Received</u> 03/14/2013
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Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbons)	29.2		mg/kg dry	2.69	12.6	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW
	Surrogate Recoveries	Result			Acceptance Range						
3386-33-2	Surrogate: 1-Chlorooctadecane	119 %			40.5-152						

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	79.1		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-3 5'-7'

York Sample ID: 13C0445-07

<u>York Project (SDG) No.</u> 13C0445	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 13, 2013 11:50 am	<u>Date Received</u> 03/14/2013
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Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.63	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.11	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	0.90	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.30	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.68	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.45	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.37	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.42	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.48	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.64	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.61	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.49	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.2	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.36	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.39	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.45	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.36	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.40	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS

Sample Information

Client Sample ID: ELB-3 5'-7'

York Sample ID: 13C0445-07

York Project (SDG) No.
13C0445

Client Project ID
140068601

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Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.52	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.58	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.65	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.42	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.79	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.36	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.63	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.46	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.56	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
67-64-1	Acetone	ND		ug/kg dry	6.0	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	0.72	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
71-43-2	Benzene	ND		ug/kg dry	0.44	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.59	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.35	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.67	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-25-2	Bromoform	ND		ug/kg dry	0.43	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.0	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.33	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.44	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.44	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.50	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
67-66-3	Chloroform	ND		ug/kg dry	0.45	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.50	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.26	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.41	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.52	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.57	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.41	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.26	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.62	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.48	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	0.73	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.33	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-09-2	Methylene chloride	ND		ug/kg dry	0.81	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS

Sample Information

Client Sample ID: ELB-3 5'-7'

York Sample ID: 13C0445-07

York Project (SDG) No.
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Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	0.98	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.40	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.38	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.33	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	0.84	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.28	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.42	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
100-42-5	Styrene	ND		ug/kg dry	0.30	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.42	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.48	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	1.3	9.0	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
108-88-3	Toluene	ND		ug/kg dry	0.35	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.47	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.47	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	0.84	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.45	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.32	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.25	4.5	1	SW8260B	03/20/2013 09:00	03/20/2013 17:25	SS
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	92.7 %			70-130						
460-00-4	Surrogate: p-Bromofluorobenzene	96.7 %			70-130						
2037-26-5	Surrogate: Toluene-d8	97.4 %			70-130						

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	112	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	62.1	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
62-53-3	Aniline	ND		ug/kg dry	49.5	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
120-12-7	Anthracene	ND		ug/kg dry	62.9	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	60.9	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	102	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	132	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	139	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	90.5	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR

Sample Information

Client Sample ID: ELB-3 5'-7'

York Sample ID: 13C0445-07

York Project (SDG) No.
13C0445

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Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	138	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	124	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	68.2	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	103	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	73.4	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	98.6	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	179	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	103	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	63.3	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	110	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
218-01-9	Chrysene	ND		ug/kg dry	61.7	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	99.0	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	117	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	175	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	77.5	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	69.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	129	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	32.5	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	63.3	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	81.1	406	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	142	406	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	71.0	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	142	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	75.1	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	57.2	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
206-44-0	Fluoranthene	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
86-73-7	Fluorene	ND		ug/kg dry	129	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	81.1	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	101	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	50.7	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	119	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
78-59-1	Isophorone	ND		ug/kg dry	83.2	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	54.3	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR

Sample Information

Client Sample ID: ELB-3 5'-7'

York Sample ID: 13C0445-07

York Project (SDG) No.
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Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	63.7	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
91-20-3	Naphthalene	ND		ug/kg dry	62.1	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	51.9	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	135	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	144	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	56.0	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	61.7	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	175	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	203	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	105	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	53.4	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	89.3	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
85-01-8	Phenanthrene	ND		ug/kg dry	54.0	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
108-95-2	Phenol	ND		ug/kg dry	54.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
129-00-0	Pyrene	ND		ug/kg dry	151	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
110-86-1	Pyridine	ND		ug/kg dry	107	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	73.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	31.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	41.8	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	67.4	203	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 17:29	SR
	Surrogate Recoveries	Result						Acceptance Range			
5175-83-7	Surrogate: 2,4,6-Tribromophenol	46.5 %						15-110			
321-60-8	Surrogate: 2-Fluorobiphenyl	50.7 %						30-130			
367-12-4	Surrogate: 2-Fluorophenol	43.1 %						15-110			
4165-60-0	Surrogate: Nitrobenzene-d5	46.4 %						30-130			
4165-62-2	Surrogate: Phenol-d5	45.6 %						15-110			
1718-51-0	Surrogate: Terphenyl-d14	55.3 %						30-130			

Sample Information

Client Sample ID: ELB-3 5'-7'

York Sample ID: 13C0445-07

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 11:50 am

Date Received
03/14/2013

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0304	0.0304	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 13:58	JW

Surrogate Recoveries

Result

Acceptance Range

877-09-8 *Surrogate: Tetrachloro-m-xylene* 91.0 %

2051-24-3 *Surrogate: Decachlorobiphenyl* 70.6 %

30-150

30-150

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbon)	ND		mg/kg dry	2.59	12.2	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

Surrogate Recoveries

Result

Acceptance Range

3386-33-2 *Surrogate: 1-Chlorooctadecane* 112 %

40.5-152

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.268	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-38-2	Arsenic	3.18		mg/kg dry	0.414	1.22	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-39-3	Barium	31.9		mg/kg dry	0.158	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.122	0.122	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.122	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-47-3	Chromium	31.4		mg/kg dry	0.146	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-50-8	Copper	34.3		mg/kg dry	0.146	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7439-92-1	Lead	4.32		mg/kg dry	0.207	0.365	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-02-0	Nickel	26.6		mg/kg dry	0.158	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7782-49-2	Selenium	3.16		mg/kg dry	0.609	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-22-4	Silver	ND		mg/kg dry	0.122	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-28-0	Thallium	ND		mg/kg dry	0.390	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW
7440-62-2	Vanadium	35.8		mg/kg dry	0.134	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW

Sample Information

Client Sample ID: ELB-3 5'-7'

York Sample ID: 13C0445-07

<u>York Project (SDG) No.</u> 13C0445	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 13, 2013 11:50 am	<u>Date Received</u> 03/14/2013
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Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	34.0		mg/kg dry	0.110	0.609	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:01	MW

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.114	0.122	1	EPA SW846-7471	03/18/2013 10:22	03/19/2013 15:39	AA

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	82.2		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-4 4'-5'

York Sample ID: 13C0445-08

<u>York Project (SDG) No.</u> 13C0445	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 13, 2013 11:25 am	<u>Date Received</u> 03/14/2013
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Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.58	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.10	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	0.82	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.27	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.62	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.41	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.34	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.38	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.44	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.58	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.55	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.45	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.1	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.33	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.36	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.42	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS

Sample Information

Client Sample ID: ELB-4 4'-5'

York Sample ID: 13C0445-08

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 11:25 am

Date Received
03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.33	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.37	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.48	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.53	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.59	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.39	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.73	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.33	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.57	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.42	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.51	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
67-64-1	Acetone	ND		ug/kg dry	5.4	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	0.66	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
71-43-2	Benzene	ND		ug/kg dry	0.41	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.54	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.32	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.61	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-25-2	Bromoform	ND		ug/kg dry	0.39	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
74-83-9	Bromomethane	ND		ug/kg dry	0.92	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.30	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.40	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.40	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.46	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
67-66-3	Chloroform	ND		ug/kg dry	0.42	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.45	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.24	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.38	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.48	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.52	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.38	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.24	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.56	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.44	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	0.67	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS

Sample Information

Client Sample ID: ELB-4 4'-5'

York Sample ID: 13C0445-08

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 11:25 am

Date Received
03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.30	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-09-2	Methylene chloride	ND		ug/kg dry	0.74	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
91-20-3	Naphthalene	ND		ug/kg dry	0.89	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.36	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.34	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.30	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	0.77	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.25	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.38	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
100-42-5	Styrene	ND		ug/kg dry	0.27	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.39	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.44	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	1.2	8.3	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
108-88-3	Toluene	ND		ug/kg dry	0.32	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.43	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.43	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	0.76	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.41	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.29	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.23	4.1	1	SW8260B	03/20/2013 18:00	03/20/2013 18:00	SS
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	103 %			70-130						
460-00-4	Surrogate: p-Bromofluorobenzene	93.6 %			70-130						
2037-26-5	Surrogate: Toluene-d8	101 %			70-130						

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	102	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	57.0	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
62-53-3	Aniline	ND		ug/kg dry	45.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
120-12-7	Anthracene	ND		ug/kg dry	57.7	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	55.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	93.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	121	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR

Sample Information

Client Sample ID: ELB-4 4'-5'

York Sample ID: 13C0445-08

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 11:25 am

Date Received
03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	127	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	83.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	127	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	114	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	62.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	95.0	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	67.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	90.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	164	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	94.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	58.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	101	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
218-01-9	Chrysene	ND		ug/kg dry	56.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	90.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	108	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	161	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	71.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	64.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	118	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	29.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	58.1	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	74.5	372	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	130	372	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	65.2	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	130	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	68.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	52.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
206-44-0	Fluoranthene	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
86-73-7	Fluorene	ND		ug/kg dry	118	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	74.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	92.7	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	46.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	109	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR

Sample Information

Client Sample ID: ELB-4 4'-5'

York Sample ID: 13C0445-08

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 11:25 am

Date Received
03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-59-1	Isophorone	ND		ug/kg dry	76.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	49.8	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	58.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
91-20-3	Naphthalene	ND		ug/kg dry	57.0	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	47.7	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	124	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	132	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	51.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	56.6	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	161	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	186	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	96.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	49.0	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	81.9	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
85-01-8	Phenanthrene	ND		ug/kg dry	49.5	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
108-95-2	Phenol	ND		ug/kg dry	50.3	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
129-00-0	Pyrene	ND		ug/kg dry	138	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
110-86-1	Pyridine	ND		ug/kg dry	98.3	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	67.7	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	29.2	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	38.4	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	61.8	186	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:00	SR
	Surrogate Recoveries	Result						Acceptance Range			
5175-83-7	Surrogate: 2,4,6-Tribromophenol	41.0 %						15-110			
321-60-8	Surrogate: 2-Fluorobiphenyl	51.2 %						30-130			
367-12-4	Surrogate: 2-Fluorophenol	42.4 %						15-110			
4165-60-0	Surrogate: Nitrobenzene-d5	45.1 %						30-130			
4165-62-2	Surrogate: Phenol-d5	44.3 %						15-110			
1718-51-0	Surrogate: Terphenyl-d14	46.8 %						30-130			

Sample Information

Client Sample ID: ELB-4 4'-5'

York Sample ID: 13C0445-08

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 11:25 am

Date Received
03/14/2013

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0279	0.0279	1	EPA SW 846-8082	03/18/2013 07:18	03/21/2013 14:18	JW

Surrogate Recoveries

Result

Acceptance Range

877-09-8 *Surrogate: Tetrachloro-m-xylene* 106 %

2051-24-3 *Surrogate: Decachlorobiphenyl* 77.1 %

30-150
30-150

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbon)	ND		mg/kg dry	2.38	11.2	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW

Surrogate Recoveries

Result

Acceptance Range

3386-33-2 *Surrogate: 1-Chlorooctadecane* 115 %

40.5-152

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.246	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-38-2	Arsenic	3.04		mg/kg dry	0.380	1.12	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-39-3	Barium	30.4		mg/kg dry	0.145	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.112	0.112	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.112	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-47-3	Chromium	29.8		mg/kg dry	0.134	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-50-8	Copper	32.2		mg/kg dry	0.134	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7439-92-1	Lead	4.20		mg/kg dry	0.190	0.335	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-02-0	Nickel	26.8		mg/kg dry	0.145	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7782-49-2	Selenium	3.05		mg/kg dry	0.559	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-22-4	Silver	ND		mg/kg dry	0.112	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-28-0	Thallium	ND		mg/kg dry	0.358	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW
7440-62-2	Vanadium	35.0		mg/kg dry	0.123	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW

Sample Information

Client Sample ID: ELB-4 4'-5'

York Sample ID: 13C0445-08

<u>York Project (SDG) No.</u> 13C0445	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 13, 2013 11:25 am	<u>Date Received</u> 03/14/2013
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Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	28.6		mg/kg dry	0.101	0.559	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:06	MW

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.105	0.112	1	EPA SW846-7471	03/18/2013 10:22	03/19/2013 15:39	AA

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	89.5		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-9 3'-4'

York Sample ID: 13C0445-09

<u>York Project (SDG) No.</u> 13C0445	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 13, 2013 3:15 pm	<u>Date Received</u> 03/14/2013
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Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.71	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.13	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.0	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.33	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.77	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.51	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.42	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.47	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.55	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.72	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.69	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.56	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.4	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.40	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.44	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.51	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS

Sample Information

Client Sample ID: ELB-9 3'-4'

York Sample ID: 13C0445-09

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 3:15 pm

Date Received
03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.41	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.46	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.59	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.66	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.74	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.48	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.90	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.41	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.71	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.52	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.64	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
67-64-1	Acetone	29		ug/kg dry	6.7	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	0.82	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
71-43-2	Benzene	ND		ug/kg dry	0.50	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.66	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.40	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.76	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-25-2	Bromoform	ND		ug/kg dry	0.48	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.1	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.37	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.50	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.50	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.57	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
67-66-3	Chloroform	ND		ug/kg dry	0.51	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.56	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.30	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.47	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.59	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.65	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.47	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.30	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.70	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.54	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	0.82	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS

Sample Information

Client Sample ID: ELB-9 3'-4'

York Sample ID: 13C0445-09

York Project (SDG) No.
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Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.38	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-09-2	Methylene chloride	ND		ug/kg dry	0.92	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.1	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.45	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.43	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.38	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	0.95	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.31	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.48	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
100-42-5	Styrene	ND		ug/kg dry	0.34	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.48	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.55	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	1.5	10	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
108-88-3	Toluene	ND		ug/kg dry	0.39	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.53	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.53	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	0.95	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.50	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.36	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.28	5.1	1	SW8260B	03/20/2013 09:00	03/20/2013 18:35	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	90.4 %			70-130						
460-00-4	Surrogate: p-Bromofluorobenzene	97.4 %			70-130						
2037-26-5	Surrogate: Toluene-d8	95.3 %			70-130						

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	110	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	61.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
62-53-3	Aniline	ND		ug/kg dry	49.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
120-12-7	Anthracene	ND		ug/kg dry	62.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	60.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	101	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	131	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR

Sample Information

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Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	137	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	89.5	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	137	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	122	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	67.5	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	102	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	72.7	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	97.6	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	177	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	102	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	62.6	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	109	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
218-01-9	Chrysene	ND		ug/kg dry	61.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	98.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	116	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	173	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	76.7	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	69.1	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	127	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	32.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	62.6	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	80.3	402	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	141	402	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	70.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	140	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	74.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	56.6	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
206-44-0	Fluoranthene	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
86-73-7	Fluorene	ND		ug/kg dry	128	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	80.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	100	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	50.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	118	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR

Sample Information

Client Sample ID: ELB-9 3'-4'

York Sample ID: 13C0445-09

York Project (SDG) No.
13C0445

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Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-59-1	Isophorone	ND		ug/kg dry	82.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	53.7	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	63.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
91-20-3	Naphthalene	ND		ug/kg dry	61.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	51.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	134	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	143	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	55.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	61.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	173	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	201	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	104	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	52.9	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	88.3	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
85-01-8	Phenanthrene	ND		ug/kg dry	53.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
108-95-2	Phenol	ND		ug/kg dry	54.2	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
129-00-0	Pyrene	ND		ug/kg dry	149	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
110-86-1	Pyridine	ND		ug/kg dry	106	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	73.0	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	31.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	41.4	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	66.7	201	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 18:32	SR
	Surrogate Recoveries	Result						Acceptance Range			
5175-83-7	Surrogate: 2,4,6-Tribromophenol	60.2 %						15-110			
321-60-8	Surrogate: 2-Fluorobiphenyl	64.6 %						30-130			
367-12-4	Surrogate: 2-Fluorophenol	54.8 %						15-110			
4165-60-0	Surrogate: Nitrobenzene-d5	54.3 %						30-130			
4165-62-2	Surrogate: Phenol-d5	58.6 %						15-110			
1718-51-0	Surrogate: Terphenyl-d14	60.9 %						30-130			

Sample Information

Client Sample ID: ELB-9 3'-4'

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York Project (SDG) No.
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Polychlorinated Biphenyls(PCB RCP)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0301	0.0301	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 10:53	JW
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	78.0 %	30-150								
2051-24-3	Surrogate: Decachlorobiphenyl	54.7 %	30-150								

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbons)	ND		mg/kg dry	2.57	12.0	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW
Surrogate Recoveries		Result	Acceptance Range								
3386-33-2	Surrogate: 1-Chlorooctadecane	103 %	40.5-152								

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.265	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-38-2	Arsenic	2.36		mg/kg dry	0.410	1.20	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-39-3	Barium	30.6		mg/kg dry	0.157	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.120	0.120	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.120	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-47-3	Chromium	8.48		mg/kg dry	0.145	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-50-8	Copper	4.74		mg/kg dry	0.145	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7439-92-1	Lead	15.2		mg/kg dry	0.205	0.361	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-02-0	Nickel	7.75		mg/kg dry	0.157	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7782-49-2	Selenium	0.941		mg/kg dry	0.602	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-22-4	Silver	ND		mg/kg dry	0.120	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-28-0	Thallium	ND		mg/kg dry	0.385	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW
7440-62-2	Vanadium	17.5		mg/kg dry	0.133	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW

Sample Information

Client Sample ID: ELB-9 3'-4'

York Sample ID: 13C0445-09

<u>York Project (SDG) No.</u> 13C0445	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 13, 2013 3:15 pm	<u>Date Received</u> 03/14/2013
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Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	19.6		mg/kg dry	0.108	0.602	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:22	MW

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.113	0.120	1	EPA SW846-7471	03/18/2013 10:22	03/19/2013 15:39	AA

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	83.0		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Sample Information

Client Sample ID: ELB-13 4'-5'

York Sample ID: 13C0445-10

<u>York Project (SDG) No.</u> 13C0445	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 13, 2013 2:20 pm	<u>Date Received</u> 03/14/2013
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Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.72	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.13	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.0	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.34	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	0.78	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.52	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.42	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.48	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.55	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.73	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.69	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.56	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.4	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.41	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.45	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.52	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS

Sample Information

Client Sample ID: ELB-13 4'-5'

York Sample ID: 13C0445-10

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 2:20 pm

Date Received
03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.42	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.46	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.60	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.66	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	0.75	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.48	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
78-93-3	2-Butanone	ND		ug/kg dry	0.91	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.42	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.72	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.53	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.64	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
67-64-1	Acetone	ND		ug/kg dry	6.8	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	0.83	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
71-43-2	Benzene	ND		ug/kg dry	0.51	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.67	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.41	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	0.77	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-25-2	Bromoform	ND		ug/kg dry	0.49	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.2	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.38	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.51	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.51	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.58	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
67-66-3	Chloroform	ND		ug/kg dry	0.52	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.57	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.30	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.47	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.60	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.65	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.47	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.30	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.71	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.55	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	0.84	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS

Sample Information

Client Sample ID: ELB-13 4'-5'

York Sample ID: 13C0445-10

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 2:20 pm

Date Received
03/14/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.38	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-09-2	Methylene chloride	ND		ug/kg dry	0.93	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.1	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.45	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.43	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.38	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	0.96	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.32	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.48	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
100-42-5	Styrene	ND		ug/kg dry	0.34	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.49	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.55	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	1.5	10	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
108-88-3	Toluene	ND		ug/kg dry	0.40	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.54	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.54	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	0.96	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.51	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.37	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.28	5.2	1	SW8260B	03/20/2013 09:00	03/20/2013 19:10	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	97.4 %			70-130						
460-00-4	Surrogate: p-Bromofluorobenzene	96.9 %			70-130						
2037-26-5	Surrogate: Toluene-d8	97.7 %			70-130						

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	107	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	59.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
62-53-3	Aniline	ND		ug/kg dry	47.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
120-12-7	Anthracene	ND		ug/kg dry	60.2	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	58.3	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	97.5	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	127	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR

Sample Information

Client Sample ID: ELB-13 4'-5'

York Sample ID: 13C0445-10

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 2:20 pm

Date Received
03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	133	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	86.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	132	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	118	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	65.2	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	99.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	70.3	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	94.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	171	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	98.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	60.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	106	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
218-01-9	Chrysene	ND		ug/kg dry	59.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	94.8	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	112	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	168	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	74.2	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	66.8	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	123	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	31.1	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	60.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	77.7	388	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	136	388	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	68.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	136	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	71.8	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	54.8	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
206-44-0	Fluoranthene	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
86-73-7	Fluorene	ND		ug/kg dry	124	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	77.7	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	96.7	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	48.5	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	114	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR

Sample Information

Client Sample ID: ELB-13 4'-5'

York Sample ID: 13C0445-10

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 2:20 pm

Date Received
03/14/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-59-1	Isophorone	ND		ug/kg dry	79.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	52.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	61.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
91-20-3	Naphthalene	ND		ug/kg dry	59.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	49.7	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	129	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	138	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	53.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	59.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	167	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	194	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	101	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	51.1	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	85.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
85-01-8	Phenanthrene	ND		ug/kg dry	51.7	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
108-95-2	Phenol	ND		ug/kg dry	52.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
129-00-0	Pyrene	ND		ug/kg dry	144	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
110-86-1	Pyridine	ND		ug/kg dry	103	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	70.6	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	30.4	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	40.0	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	64.5	194	1	EPA SW-846 8270C	03/16/2013 10:37	03/20/2013 19:02	SR

Surrogate Recoveries

Result

Acceptance Range

5175-83-7	Surrogate: 2,4,6-Tribromophenol	54.3 %	15-110
321-60-8	Surrogate: 2-Fluorobiphenyl	57.8 %	30-130
367-12-4	Surrogate: 2-Fluorophenol	49.7 %	15-110
4165-60-0	Surrogate: Nitrobenzene-d5	49.8 %	30-130
4165-62-2	Surrogate: Phenol-d5	53.9 %	15-110
1718-51-0	Surrogate: Terphenyl-d14	56.1 %	30-130

Sample Information

Client Sample ID: ELB-13 4'-5'

York Sample ID: 13C0445-10

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 2:20 pm

Date Received
03/14/2013

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0291	0.0291	1	EPA SW 846-8082	03/18/2013 07:18	03/19/2013 07:15	JW
Surrogate Recoveries		Result	Acceptance Range								
877-09-8	Surrogate: Tetrachloro-m-xylene	81.0 %	30-150								
2051-24-3	Surrogate: Decachlorobiphenyl	61.7 %	30-150								

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbons)	30.8		mg/kg dry	2.48	11.7	1	CT DEP ETPH	03/17/2013 10:56	03/21/2013 10:08	JW
Surrogate Recoveries		Result	Acceptance Range								
3386-33-2	Surrogate: 1-Chlorooctadecane	111 %	40.5-152								

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.256	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-38-2	Arsenic	2.78		mg/kg dry	0.396	1.17	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-39-3	Barium	31.5		mg/kg dry	0.151	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.117	0.117	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.117	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-47-3	Chromium	12.6		mg/kg dry	0.140	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-50-8	Copper	11.1		mg/kg dry	0.140	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7439-92-1	Lead	25.9		mg/kg dry	0.198	0.350	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-02-0	Nickel	11.5		mg/kg dry	0.151	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7782-49-2	Selenium	1.96		mg/kg dry	0.583	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-22-4	Silver	ND		mg/kg dry	0.117	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-28-0	Thallium	ND		mg/kg dry	0.373	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW
7440-62-2	Vanadium	25.2		mg/kg dry	0.128	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW

Sample Information

Client Sample ID: ELB-13 4'-5'

York Sample ID: 13C0445-10

York Project (SDG) No.
13C0445

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 13, 2013 2:20 pm

Date Received
03/14/2013

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	Zinc	36.4		mg/kg dry	0.105	0.583	1	EPA SW846-6010B	03/18/2013 16:05	03/18/2013 23:27	MW

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.110	0.117	1	EPA SW846-7471	03/18/2013 10:22	03/19/2013 15:39	AA

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	85.8		%	0.100	0.100	1	SM 2540G	03/18/2013 11:50	03/18/2013 11:50	AMC

Analytical Batch Summary

Batch ID: BC30806

Preparation Method: EPA 3550B

Prepared By: AY

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-02	ELB-8 3'-4'	03/16/13
13C0445-03	ELB-7 5'-7'	03/16/13
13C0445-04	ELB-1 10'-11'	03/16/13
13C0445-05	ELB-2 9'-11'	03/16/13
13C0445-06	ELB-10 1'-2'	03/16/13
13C0445-07	ELB-3 5'-7'	03/16/13
13C0445-08	ELB-4 4'-5'	03/16/13
13C0445-09	ELB-9 3'-4'	03/16/13
13C0445-10	ELB-13 4'-5'	03/16/13

Batch ID: BC30812

Preparation Method: EPA 3545A

Prepared By: DB

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-02	ELB-8 3'-4'	03/17/13
13C0445-03	ELB-7 5'-7'	03/17/13
13C0445-04	ELB-1 10'-11'	03/17/13
13C0445-05	ELB-2 9'-11'	03/17/13
13C0445-06	ELB-10 1'-2'	03/17/13
13C0445-07	ELB-3 5'-7'	03/17/13
13C0445-08	ELB-4 4'-5'	03/17/13
13C0445-09	ELB-9 3'-4'	03/17/13
13C0445-10	ELB-13 4'-5'	03/17/13
BC30812-BLK1	Blank	03/17/13
BC30812-BS1	LCS	03/17/13

Batch ID: BC30852

Preparation Method: EPA 3550B

Prepared By: CC

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-07	ELB-3 5'-7'	03/18/13
13C0445-08	ELB-4 4'-5'	03/18/13
13C0445-09	ELB-9 3'-4'	03/18/13
13C0445-10	ELB-13 4'-5'	03/18/13
BC30852-BLK1	Blank	03/18/13
BC30852-BS2	LCS	03/18/13
BC30852-BSD2	LCS Dup	03/18/13

Batch ID: BC30860

Preparation Method: % Solids Prep

Prepared By: AMC

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-02	ELB-8 3'-4'	03/18/13
13C0445-03	ELB-7 5'-7'	03/18/13
13C0445-04	ELB-1 10'-11'	03/18/13
13C0445-05	ELB-2 9'-11'	03/18/13
13C0445-06	ELB-10 1'-2'	03/18/13
13C0445-07	ELB-3 5'-7'	03/18/13
13C0445-08	ELB-4 4'-5'	03/18/13
13C0445-09	ELB-9 3'-4'	03/18/13

YORK

ANALYTICAL LABORATORIES, INC.

13C0445-10

ELB-13 4'-5'

03/18/13

Batch ID: BC30881

Preparation Method: EPA SW846-7471

Prepared By: AA

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-07	ELB-3 5'-7'	03/18/13
13C0445-08	ELB-4 4'-5'	03/18/13
13C0445-09	ELB-9 3'-4'	03/18/13
13C0445-10	ELB-13 4'-5'	03/18/13
BC30881-BLK1	Blank	03/18/13
BC30881-BS1	LCS	03/18/13

Batch ID: BC30908

Preparation Method: EPA 3050B

Prepared By: MW

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-07	ELB-3 5'-7'	03/18/13
13C0445-08	ELB-4 4'-5'	03/18/13
13C0445-09	ELB-9 3'-4'	03/18/13
13C0445-10	ELB-13 4'-5'	03/18/13
BC30908-BLK1	Blank	03/18/13
BC30908-SRM1	Reference	03/18/13

Batch ID: BC31000

Preparation Method: EPA 5035A

Prepared By: SS

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-07	ELB-3 5'-7'	03/20/13
13C0445-09	ELB-9 3'-4'	03/20/13
13C0445-10	ELB-13 4'-5'	03/20/13
BC31000-BLK1	Blank	03/20/13
BC31000-BS1	LCS	03/20/13
BC31000-BSD1	LCS Dup	03/20/13

Batch ID: BC31064

Preparation Method: EPA 5030B

Prepared By: EKM

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-01	TRIP BLANK	03/21/13
BC31064-BLK1	Blank	03/21/13
BC31064-BS1	LCS	03/21/13
BC31064-BSD1	LCS Dup	03/21/13

Batch ID: BC31083

Preparation Method: EPA 5035A

Prepared By: EKM

YORK Sample ID	Client Sample ID	Preparation Date
13C0445-08	ELB-4 4'-5'	03/20/13

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BC31000 - EPA 5035A

Blank (BC31000-BLK1)

Prepared & Analyzed: 03/20/2013

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,1-Dichloropropylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	10	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	10	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	10	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,3-Dichloropropane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
2,2-Dichloropropane	ND	5.0	"								
2-Butanone	ND	10	"								
2-Chlorotoluene	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Chlorotoluene	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl Methacrylate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BC31000 - EPA 5035A

Blank (BC31000-BLK1)

Prepared & Analyzed: 03/20/2013

n-Propylbenzene	ND	5.0	ug/kg wet								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Tetrahydrofuran	ND	10	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
trans-1,4-dichloro-2-butene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	47.4		ug/L	50.0		94.8	70-130				
<i>Surrogate: p-Bromofluorobenzene</i>	48.5		"	50.0		97.1	70-130				
<i>Surrogate: Toluene-d8</i>	49.8		"	50.0		99.6	70-130				

LCS (BC31000-BS1)

Prepared & Analyzed: 03/20/2013

1,1,1,2-Tetrachloroethane	47		ug/L	50.0		93.3	70-130				
1,1,1-Trichloroethane	47		"	50.0		94.0	70-130				
1,1,2,2-Tetrachloroethane	47		"	50.0		93.9	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55		"	50.0		110	70-130				
1,1,2-Trichloroethane	49		"	50.0		97.8	70-130				
1,1-Dichloroethane	50		"	50.0		99.5	70-130				
1,1-Dichloroethylene	44		"	50.0		87.5	70-130				
1,1-Dichloropropylene	45		"	50.0		90.3	70-130				
1,2,3-Trichlorobenzene	49		"	50.0		98.4	70-130				
1,2,3-Trichloropropane	46		"	50.0		91.5	70-130				
1,2,4-Trichlorobenzene	51		"	50.0		102	70-130				
1,2,4-Trimethylbenzene	45		"	50.0		89.4	70-130				
1,2-Dibromo-3-chloropropane	41		"	50.0		81.9	70-130				
1,2-Dibromoethane	49		"	50.0		98.4	70-130				
1,2-Dichlorobenzene	46		"	50.0		92.7	70-130				
1,2-Dichloroethane	48		"	50.0		96.9	70-130				
1,2-Dichloropropane	47		"	50.0		94.6	70-130				
1,3,5-Trimethylbenzene	44		"	50.0		87.7	70-130				
1,3-Dichlorobenzene	47		"	50.0		94.8	70-130				
1,3-Dichloropropane	46		"	50.0		91.5	70-130				
1,4-Dichlorobenzene	46		"	50.0		92.6	70-130				
2,2-Dichloropropane	45		"	50.0		90.1	70-130				
2-Butanone	52		"	50.0		103	70-130				
2-Chlorotoluene	41		"	50.0		82.3	70-130				
2-Hexanone	48		"	50.0		95.2	70-130				
4-Chlorotoluene	43		"	50.0		86.9	70-130				
4-Methyl-2-pentanone	34		"	50.0		68.3	70-130				
Acetone	31		"	50.0		61.0	70-130				Low Bias
Acrylonitrile	57		"	50.0		114	70-130				Low Bias
Benzene	52		"	50.0		103	70-130				
Bromobenzene	42		"	50.0		84.5	70-130				
Bromochloromethane	50		"	50.0		101	70-130				
Bromodichloromethane	45		"	50.0		89.4	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BC31000 - EPA 5035A

LCS (BC31000-BS1)

Prepared & Analyzed: 03/20/2013

Bromoform	48		ug/L	50.0		97.0	70-130				
Bromomethane	49		"	50.0		97.3	70-130				
Carbon disulfide	87		"	100		86.9	70-130				
Carbon tetrachloride	49		"	50.0		97.2	70-130				
Chlorobenzene	47		"	50.0		94.8	70-130				
Chloroethane	55		"	50.0		110	70-130				
Chloroform	48		"	50.0		96.5	70-130				
Chloromethane	56		"	50.0		112	70-130				
cis-1,2-Dichloroethylene	54		"	50.0		107	70-130				
cis-1,3-Dichloropropylene	49		"	50.0		98.0	70-130				
Dibromochloromethane	47		"	50.0		94.2	70-130				
Dibromomethane	49		"	50.0		98.7	70-130				
Dichlorodifluoromethane	57		"	50.0		113	70-130				
Ethyl Benzene	47		"	50.0		93.4	70-130				
Hexachlorobutadiene	49		"	50.0		97.8	70-130				
Isopropylbenzene	44		"	50.0		87.3	70-130				
Methyl Methacrylate	52		"	50.0		103	70-130				
Methyl tert-butyl ether (MTBE)	53		"	50.0		106	70-130				
Methylene chloride	45		"	50.0		91.0	70-130				
Naphthalene	52		"	50.0		104	70-130				
n-Butylbenzene	43		"	50.0		86.2	70-130				
n-Propylbenzene	42		"	50.0		84.2	70-130				
o-Xylene	45		"	50.0		89.2	70-130				
p- & m- Xylenes	88		"	100		87.9	70-130				
p-Isopropyltoluene	47		"	50.0		93.4	70-130				
sec-Butylbenzene	47		"	50.0		93.6	70-130				
Styrene	52		"	50.0		104	70-130				
tert-Butylbenzene	45		"	50.0		90.9	70-130				
Tetrachloroethylene	48		"	50.0		95.6	70-130				
Tetrahydrofuran	47		"	50.0		94.9	70-130				
Toluene	45		"	50.0		89.3	70-130				
trans-1,2-Dichloroethylene	48		"	50.0		95.2	70-130				
trans-1,3-Dichloropropylene	45		"	50.0		90.3	70-130				
trans-1,4-dichloro-2-butene	46		"	50.0		91.7	70-130				
Trichloroethylene	46		"	50.0		91.2	70-130				
Trichlorofluoromethane	50		"	50.0		99.8	70-130				
Vinyl Chloride	52		"	50.0		104	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>50.9</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>70-130</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>47.7</i>		<i>"</i>	<i>50.0</i>		<i>95.5</i>	<i>70-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>48.8</i>		<i>"</i>	<i>50.0</i>		<i>97.5</i>	<i>70-130</i>				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
									RPD	Limit
Batch BC31000 - EPA 5035A										
LCS Dup (BC31000-BSD1)										
Prepared & Analyzed: 03/20/2013										
1,1,1,2-Tetrachloroethane	46		ug/L	50.0		92.4	70-130		0.947	30
1,1,1-Trichloroethane	47		"	50.0		94.3	70-130		0.319	30
1,1,2,2-Tetrachloroethane	47		"	50.0		93.2	70-130		0.727	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55		"	50.0		109	70-130		0.840	30
1,1,2-Trichloroethane	48		"	50.0		95.3	70-130		2.59	30
1,1-Dichloroethane	52		"	50.0		104	70-130		4.81	30
1,1-Dichloroethylene	44		"	50.0		87.8	70-130		0.297	30
1,1-Dichloropropylene	45		"	50.0		90.1	70-130		0.222	30
1,2,3-Trichlorobenzene	49		"	50.0		97.1	70-130		1.37	30
1,2,3-Trichloropropane	45		"	50.0		89.8	70-130		1.88	30
1,2,4-Trichlorobenzene	48		"	50.0		95.2	70-130		6.58	30
1,2,4-Trimethylbenzene	43		"	50.0		85.3	70-130		4.65	30
1,2-Dibromo-3-chloropropane	38		"	50.0		75.8	70-130		7.71	30
1,2-Dibromoethane	50		"	50.0		101	70-130		2.21	30
1,2-Dichlorobenzene	45		"	50.0		90.4	70-130		2.58	30
1,2-Dichloroethane	48		"	50.0		95.4	70-130		1.64	30
1,2-Dichloropropane	47		"	50.0		94.8	70-130		0.190	30
1,3,5-Trimethylbenzene	43		"	50.0		86.3	70-130		1.65	30
1,3-Dichlorobenzene	45		"	50.0		89.9	70-130		5.33	30
1,3-Dichloropropane	46		"	50.0		91.1	70-130		0.460	30
1,4-Dichlorobenzene	44		"	50.0		87.1	70-130		6.12	30
2,2-Dichloropropane	45		"	50.0		89.9	70-130		0.156	30
2-Butanone	49		"	50.0		98.4	70-130		4.98	30
2-Chlorotoluene	39		"	50.0		77.7	70-130		5.75	30
2-Hexanone	44		"	50.0		88.2	70-130		7.61	30
4-Chlorotoluene	42		"	50.0		84.9	70-130		2.28	30
4-Methyl-2-pentanone	33		"	50.0		66.7	70-130	Low Bias	2.37	30
Acetone	35		"	50.0		69.4	70-130	Low Bias	12.9	30
Acrylonitrile	57		"	50.0		113	70-130		0.141	30
Benzene	50		"	50.0		100	70-130		3.36	30
Bromobenzene	42		"	50.0		83.1	70-130		1.72	30
Bromochloromethane	48		"	50.0		95.7	70-130		5.03	30
Bromodichloromethane	46		"	50.0		92.5	70-130		3.34	30
Bromoform	46		"	50.0		92.2	70-130		5.01	30
Bromomethane	49		"	50.0		97.0	70-130		0.329	30
Carbon disulfide	88		"	100		87.5	70-130		0.699	30
Carbon tetrachloride	48		"	50.0		96.8	70-130		0.412	30
Chlorobenzene	47		"	50.0		93.2	70-130		1.66	30
Chloroethane	54		"	50.0		107	70-130		2.07	30
Chloroform	50		"	50.0		99.5	70-130		3.06	30
Chloromethane	52		"	50.0		104	70-130		7.73	30
cis-1,2-Dichloroethylene	54		"	50.0		108	70-130		0.669	30
cis-1,3-Dichloropropylene	47		"	50.0		94.6	70-130		3.49	30
Dibromochloromethane	47		"	50.0		94.4	70-130		0.191	30
Dibromomethane	49		"	50.0		98.1	70-130		0.589	30
Dichlorodifluoromethane	52		"	50.0		104	70-130		8.86	30
Ethyl Benzene	45		"	50.0		90.1	70-130		3.51	30
Hexachlorobutadiene	48		"	50.0		95.1	70-130		2.76	30
Isopropylbenzene	42		"	50.0		83.8	70-130		4.09	30
Methyl Methacrylate	51		"	50.0		101	70-130		2.04	30
Methyl tert-butyl ether (MTBE)	52		"	50.0		104	70-130		1.84	30
Methylene chloride	47		"	50.0		94.1	70-130		3.44	30
Naphthalene	51		"	50.0		101	70-130		2.36	30
n-Butylbenzene	41		"	50.0		82.9	70-130		3.90	30

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	
		Limit			Result				Limits	RPD

Batch BC31000 - EPA 5035A

LCS Dup (BC31000-BSD1)

Prepared & Analyzed: 03/20/2013

n-Propylbenzene	42		ug/L	50.0		83.3	70-130		1.07	30
o-Xylene	44		"	50.0		87.2	70-130		2.20	30
p- & m- Xylenes	87		"	100		86.7	70-130		1.37	30
p-Isopropyltoluene	45		"	50.0		90.1	70-130		3.58	30
sec-Butylbenzene	45		"	50.0		90.9	70-130		2.91	30
Styrene	51		"	50.0		101	70-130		2.87	30
tert-Butylbenzene	45		"	50.0		90.0	70-130		1.06	30
Tetrachloroethylene	45		"	50.0		91.0	70-130		4.95	30
Tetrahydrofuran	49		"	50.0		98.8	70-130		3.98	30
Toluene	43		"	50.0		86.8	70-130		2.86	30
trans-1,2-Dichloroethylene	47		"	50.0		94.4	70-130		0.907	30
trans-1,3-Dichloropropylene	44		"	50.0		87.9	70-130		2.65	30
trans-1,4-dichloro-2-butene	45		"	50.0		89.7	70-130		2.16	30
Trichloroethylene	46		"	50.0		91.7	70-130		0.547	30
Trichlorofluoromethane	50		"	50.0		100	70-130		0.599	30
Vinyl Chloride	50		"	50.0		99.8	70-130		4.06	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>49.3</i>		<i>"</i>	<i>50.0</i>		<i>98.6</i>	<i>70-130</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>48.6</i>		<i>"</i>	<i>50.0</i>		<i>97.1</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>47.5</i>		<i>"</i>	<i>50.0</i>		<i>94.9</i>	<i>70-130</i>			

Batch BC31064 - EPA 5030B

Blank (BC31064-BLK1)

Prepared & Analyzed: 03/21/2013

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							
1,1,1-Trichloroethane	ND	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.50	"							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"							
1,1,2-Trichloroethane	ND	0.50	"							
1,1-Dichloroethane	ND	0.50	"							
1,1-Dichloroethylene	ND	0.50	"							
1,1-Dichloropropylene	ND	0.50	"							
1,2,3-Trichlorobenzene	ND	2.0	"							
1,2,3-Trichloropropane	ND	0.50	"							
1,2,4-Trichlorobenzene	ND	2.0	"							
1,2,4-Trimethylbenzene	ND	0.50	"							
1,2-Dibromo-3-chloropropane	ND	2.0	"							
1,2-Dibromoethane	ND	0.50	"							
1,2-Dichlorobenzene	ND	0.50	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dichloropropane	ND	0.50	"							
1,3,5-Trimethylbenzene	ND	0.50	"							
1,3-Dichlorobenzene	ND	0.50	"							
1,3-Dichloropropane	ND	0.50	"							
1,4-Dichlorobenzene	ND	0.50	"							
2,2-Dichloropropane	ND	0.50	"							
2-Butanone	ND	2.0	"							
2-Chlorotoluene	ND	0.50	"							
2-Hexanone	ND	0.50	"							
4-Chlorotoluene	ND	0.50	"							
4-Methyl-2-pentanone	ND	0.50	"							
Acetone	ND	2.0	"							
Acrylonitrile	ND	1.0	"							
Benzene	ND	0.50	"							
Bromobenzene	ND	0.50	"							

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BC31064 - EPA 5030B

Blank (BC31064-BLK1)

Prepared & Analyzed: 03/21/2013

Bromochloromethane	ND	0.50	ug/L							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	0.50	"							
Carbon disulfide	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
cis-1,2-Dichloroethylene	ND	0.50	"							
cis-1,3-Dichloropropylene	ND	0.50	"							
Dibromochloromethane	ND	0.50	"							
Dibromomethane	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
Ethyl Benzene	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Isopropylbenzene	ND	0.50	"							
Methyl Methacrylate	ND	0.50	"							
Methyl tert-butyl ether (MTBE)	ND	0.50	"							
Methylene chloride	4.1	2.0	"							
Naphthalene	ND	2.0	"							
n-Butylbenzene	ND	0.50	"							
n-Propylbenzene	ND	0.50	"							
o-Xylene	ND	0.50	"							
p- & m- Xylenes	ND	1.0	"							
p-Isopropyltoluene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Tetrachloroethylene	ND	0.50	"							
Tetrahydrofuran	ND	2.0	"							
Toluene	ND	0.50	"							
trans-1,2-Dichloroethylene	ND	0.50	"							
trans-1,3-Dichloropropylene	ND	0.50	"							
trans-1,4-dichloro-2-butene	ND	0.50	"							
Trichloroethylene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
Vinyl Chloride	ND	0.50	"							
<hr/>										
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.2</i>		<i>"</i>	<i>10.0</i>		<i>102</i>	<i>70-130</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>11.3</i>		<i>"</i>	<i>10.0</i>		<i>113</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>10.1</i>		<i>"</i>	<i>10.0</i>		<i>101</i>	<i>70-130</i>			

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31064 - EPA 5030B											
LCS (BC31064-BS1)											
Prepared & Analyzed: 03/21/2013											
1,1,1,2-Tetrachloroethane	9.7		ug/L	10.0		97.0	70-130				
1,1,1-Trichloroethane	10		"	10.0		102	70-130				
1,1,2,2-Tetrachloroethane	11		"	10.0		105	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.2		"	10.0		91.7	70-130				
1,1,2-Trichloroethane	9.4		"	10.0		93.9	70-130				
1,1-Dichloroethane	9.8		"	10.0		98.5	70-130				
1,1-Dichloroethylene	9.5		"	10.0		94.8	70-130				
1,1-Dichloropropylene	9.2		"	10.0		91.8	70-130				
1,2,3-Trichlorobenzene	12		"	10.0		122	70-130				
1,2,3-Trichloropropane	9.4		"	10.0		94.5	70-130				
1,2,4-Trichlorobenzene	12		"	10.0		119	70-130				
1,2,4-Trimethylbenzene	16		"	10.0		158	70-130	High Bias			
1,2-Dibromo-3-chloropropane	7.6		"	10.0		76.4	70-130				
1,2-Dibromoethane	10		"	10.0		102	70-130				
1,2-Dichlorobenzene	10		"	10.0		99.7	70-130				
1,2-Dichloroethane	9.4		"	10.0		93.9	70-130				
1,2-Dichloropropane	9.5		"	10.0		95.2	70-130				
1,3,5-Trimethylbenzene	12		"	10.0		117	70-130				
1,3-Dichlorobenzene	9.9		"	10.0		98.8	70-130				
1,3-Dichloropropane	9.5		"	10.0		94.8	70-130				
1,4-Dichlorobenzene	10		"	10.0		99.7	70-130				
2,2-Dichloropropane	12		"	10.0		120	70-130				
2-Butanone	9.9		"	10.0		98.7	70-130				
2-Chlorotoluene	9.9		"	10.0		98.6	70-130				
2-Hexanone	10		"	10.0		101	70-130				
4-Chlorotoluene	10		"	10.0		102	70-130				
4-Methyl-2-pentanone	0.11		"	10.0		1.10	70-130	Low Bias			
Acetone	7.8		"	10.0		78.2	70-130				
Acrylonitrile	9.2		"	10.0		91.5	70-130				
Benzene	10		"	10.0		102	70-130				
Bromobenzene	9.7		"	10.0		97.0	70-130				
Bromochloromethane	10		"	10.0		99.6	70-130				
Bromodichloromethane	10		"	10.0		103	70-130				
Bromoform	11		"	10.0		109	70-130				
Bromomethane	5.1		"	10.0		50.9	70-130	Low Bias			
Carbon disulfide	19		"	20.0		94.2	70-130				
Carbon tetrachloride	10		"	10.0		101	70-130				
Chlorobenzene	9.6		"	10.0		95.6	70-130				
Chloroethane	10		"	10.0		101	70-130				
Chloroform	10		"	10.0		104	70-130				
Chloromethane	9.9		"	10.0		99.3	70-130				
cis-1,2-Dichloroethylene	10		"	10.0		103	70-130				
cis-1,3-Dichloropropylene	11		"	10.0		107	70-130				
Dibromochloromethane	11		"	10.0		106	70-130				
Dibromomethane	10		"	10.0		100	70-130				
Dichlorodifluoromethane	13		"	10.0		131	70-130	High Bias			
Ethyl Benzene	10		"	10.0		101	70-130				
Hexachlorobutadiene	10		"	10.0		105	70-130				
Isopropylbenzene	10		"	10.0		102	70-130				
Methyl Methacrylate	13		"	10.0		125	70-130				
Methyl tert-butyl ether (MTBE)	10		"	10.0		103	70-130				
Methylene chloride	9.4		"	10.0		94.0	70-130				
Naphthalene	15		"	10.0		149	70-130	High Bias			
n-Butylbenzene	10		"	10.0		104	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31064 - EPA 5030B											
LCS (BC31064-BS1)											
						Prepared & Analyzed: 03/21/2013					
n-Propylbenzene	10		ug/L	10.0		102	70-130				
o-Xylene	10		"	10.0		99.9	70-130				
p- & m- Xylenes	22		"	20.0		109	70-130				
p-Isopropyltoluene	11		"	10.0		113	70-130				
sec-Butylbenzene	10		"	10.0		103	70-130				
Styrene	16		"	10.0		161	70-130	High Bias			
tert-Butylbenzene	9.9		"	10.0		98.7	70-130				
Tetrachloroethylene	9.3		"	10.0		92.7	70-130				
Tetrahydrofuran	10		"	10.0		101	70-130				
Toluene	9.7		"	10.0		97.1	70-130				
trans-1,2-Dichloroethylene	9.2		"	10.0		92.0	70-130				
trans-1,3-Dichloropropylene	10		"	10.0		105	70-130				
trans-1,4-dichloro-2-butene	9.7		"	10.0		97.0	70-130				
Trichloroethylene	9.6		"	10.0		96.3	70-130				
Trichlorofluoromethane	10		"	10.0		103	70-130				
Vinyl Chloride	9.8		"	10.0		98.0	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.2</i>		<i>"</i>	<i>10.0</i>		<i>102</i>	<i>70-130</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>10.2</i>		<i>"</i>	<i>10.0</i>		<i>102</i>	<i>70-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>9.87</i>		<i>"</i>	<i>10.0</i>		<i>98.7</i>	<i>70-130</i>				
LCS Dup (BC31064-BSD1)											
						Prepared & Analyzed: 03/21/2013					
1,1,1,2-Tetrachloroethane	9.7		ug/L	10.0		97.2	70-130		0.206	30	
1,1,1-Trichloroethane	10		"	10.0		102	70-130		0.00	30	
1,1,2,2-Tetrachloroethane	10		"	10.0		104	70-130		0.858	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.4		"	10.0		93.9	70-130		2.37	30	
1,1,2-Trichloroethane	9.6		"	10.0		95.6	70-130		1.79	30	
1,1-Dichloroethane	9.9		"	10.0		98.7	70-130		0.203	30	
1,1-Dichloroethylene	9.5		"	10.0		95.3	70-130		0.526	30	
1,1-Dichloropropylene	9.2		"	10.0		91.5	70-130		0.327	30	
1,2,3-Trichlorobenzene	13		"	10.0		126	70-130		3.15	30	
1,2,3-Trichloropropane	9.7		"	10.0		96.7	70-130		2.30	30	
1,2,4-Trichlorobenzene	12		"	10.0		121	70-130		2.00	30	
1,2,4-Trimethylbenzene	16		"	10.0		156	70-130	High Bias	1.27	30	
1,2-Dibromo-3-chloropropane	8.0		"	10.0		80.4	70-130		5.10	30	
1,2-Dibromoethane	10		"	10.0		99.5	70-130		2.29	30	
1,2-Dichlorobenzene	9.7		"	10.0		97.4	70-130		2.33	30	
1,2-Dichloroethane	9.4		"	10.0		93.7	70-130		0.213	30	
1,2-Dichloropropane	9.4		"	10.0		93.6	70-130		1.69	30	
1,3,5-Trimethylbenzene	12		"	10.0		116	70-130		0.942	30	
1,3-Dichlorobenzene	9.7		"	10.0		97.2	70-130		1.63	30	
1,3-Dichloropropane	9.3		"	10.0		92.8	70-130		2.13	30	
1,4-Dichlorobenzene	9.7		"	10.0		97.4	70-130		2.33	30	
2,2-Dichloropropane	11		"	10.0		106	70-130		11.7	30	
2-Butanone	10		"	10.0		99.8	70-130		1.11	30	
2-Chlorotoluene	9.7		"	10.0		96.7	70-130		1.95	30	
2-Hexanone	10		"	10.0		102	70-130		0.891	30	
4-Chlorotoluene	9.9		"	10.0		98.6	70-130		3.19	30	
4-Methyl-2-pentanone	7.5		"	10.0		75.2	70-130		194	30	Non-dir.
Acetone	8.6		"	10.0		85.8	70-130		9.27	30	
Acrylonitrile	9.3		"	10.0		92.8	70-130		1.41	30	
Benzene	10		"	10.0		100	70-130		2.17	30	
Bromobenzene	9.5		"	10.0		94.6	70-130		2.51	30	
Bromochloromethane	9.7		"	10.0		97.1	70-130		2.54	30	
Bromodichloromethane	9.9		"	10.0		99.1	70-130		3.47	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31064 - EPA 5030B										
LCS Dup (BC31064-BSD1)										
										Prepared & Analyzed: 03/21/2013
Bromoform	11		ug/L	10.0		106	70-130		2.51	30
Bromomethane	5.4		"	10.0		54.3	70-130	Low Bias	6.46	30
Carbon disulfide	19		"	20.0		94.1	70-130		0.159	30
Carbon tetrachloride	10		"	10.0		100	70-130		0.895	30
Chlorobenzene	9.4		"	10.0		94.2	70-130		1.48	30
Chloroethane	10		"	10.0		101	70-130		0.593	30
Chloroform	10		"	10.0		100	70-130		3.14	30
Chloromethane	9.9		"	10.0		98.9	70-130		0.404	30
cis-1,2-Dichloroethylene	10		"	10.0		99.5	70-130		3.07	30
cis-1,3-Dichloropropylene	10		"	10.0		102	70-130		4.78	30
Dibromochloromethane	10		"	10.0		103	70-130		2.69	30
Dibromomethane	9.8		"	10.0		97.5	70-130		3.03	30
Dichlorodifluoromethane	13		"	10.0		129	70-130		1.38	30
Ethyl Benzene	10		"	10.0		101	70-130		0.594	30
Hexachlorobutadiene	11		"	10.0		107	70-130		2.64	30
Isopropylbenzene	10		"	10.0		102	70-130		0.587	30
Methyl Methacrylate	12		"	10.0		117	70-130		6.93	30
Methyl tert-butyl ether (MTBE)	10		"	10.0		99.6	70-130		3.36	30
Methylene chloride	11		"	10.0		107	70-130		12.9	30
Naphthalene	16		"	10.0		158	70-130	High Bias	5.98	30
n-Butylbenzene	10		"	10.0		101	70-130		2.83	30
n-Propylbenzene	10		"	10.0		100	70-130		2.17	30
o-Xylene	10		"	10.0		99.8	70-130		0.100	30
p- & m- Xylenes	22		"	20.0		108	70-130		0.784	30
p-Isopropyltoluene	11		"	10.0		111	70-130		1.78	30
sec-Butylbenzene	10		"	10.0		104	70-130		0.290	30
Styrene	16		"	10.0		158	70-130	High Bias	1.95	30
tert-Butylbenzene	9.9		"	10.0		98.7	70-130		0.00	30
Tetrachloroethylene	9.4		"	10.0		93.5	70-130		0.859	30
Tetrahydrofuran	9.8		"	10.0		98.5	70-130		2.51	30
Toluene	9.6		"	10.0		96.4	70-130		0.724	30
trans-1,2-Dichloroethylene	9.0		"	10.0		89.9	70-130		2.31	30
trans-1,3-Dichloropropylene	10		"	10.0		101	70-130		3.89	30
trans-1,4-dichloro-2-butene	9.5		"	10.0		95.1	70-130		1.98	30
Trichloroethylene	9.6		"	10.0		95.7	70-130		0.625	30
Trichlorofluoromethane	10		"	10.0		104	70-130		0.484	30
Vinyl Chloride	9.6		"	10.0		95.7	70-130		2.37	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.2</i>		<i>"</i>	<i>10.0</i>		<i>102</i>	<i>70-130</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>10.3</i>		<i>"</i>	<i>10.0</i>		<i>103</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>9.76</i>		<i>"</i>	<i>10.0</i>		<i>97.6</i>	<i>70-130</i>			

Polychlorinated Biphenyls (PCB) by EPA SW 846-8082/EPA Compendium Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC30852 - EPA 3550B										
Blank (BC30852-BLK1)										
										Prepared: 03/18/2013 Analyzed: 03/19/2013
Aroclor 1016	ND	0.0167	mg/kg wet							
Aroclor 1221	ND	0.0167	"							
Aroclor 1232	ND	0.0167	"							
Aroclor 1242	ND	0.0167	"							
Aroclor 1248	ND	0.0167	"							
Aroclor 1254	ND	0.0167	"							
Aroclor 1260	ND	0.0167	"							
Aroclor 1262	ND	0.0167	"							
Aroclor 1268	ND	0.0167	"							
Total PCBs	ND	0.0167	"							
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0647		"	0.0667		97.0			30-150	
<i>Surrogate: Decachlorobiphenyl</i>	0.0493		"	0.0670		73.6			30-150	
LCS (BC30852-BS2)										
										Prepared: 03/18/2013 Analyzed: 03/19/2013
Aroclor 1016	0.381	0.0167	mg/kg wet	0.333		114			40-140	
Aroclor 1260	0.363	0.0167	"	0.333		109			40-140	
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0833		"	0.0667		125			30-150	
<i>Surrogate: Decachlorobiphenyl</i>	0.0783		"	0.0670		117			30-150	
LCS Dup (BC30852-BSD2)										
										Prepared: 03/18/2013 Analyzed: 03/19/2013
Aroclor 1016	0.362	0.0167	mg/kg wet	0.333		109		4.96	40-140	25
Aroclor 1260	0.333	0.0167	"	0.333		99.9		8.55	40-140	25
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0817		"	0.0667		122			30-150	
<i>Surrogate: Decachlorobiphenyl</i>	0.0627		"	0.0670		93.5			30-150	

Gas Chromatography/Flame Ionization Determination - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BC30812 - EPA 3545A

Blank (BC30812-BLK1)

Prepared: 03/17/2013 Analyzed: 03/21/2013

ETPH (Extractable Total Petroleum Hydrocarbons)	ND	10.0	mg/kg wet							
<i>Surrogate: 1-Chlorooctadecane</i>	11.0		"	10.0		110			40.5-152	

LCS (BC30812-BS1)

Prepared: 03/17/2013 Analyzed: 03/21/2013

ETPH (Extractable Total Petroleum Hydrocarbons)	62.0	10.0	mg/kg wet	75.0		82.7			60-120	
<i>Surrogate: 1-Chlorooctadecane</i>	11.6		"	10.0		116			40.5-152	

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BC30908 - EPA 3050B

Blank (BC30908-BLK1)

Prepared & Analyzed: 03/18/2013

Antimony	ND	0.500	mg/kg wet							
Arsenic	ND	1.00	"							
Barium	ND	0.500	"							
Beryllium	ND	0.100	"							
Cadmium	ND	0.500	"							
Chromium	ND	0.500	"							
Copper	ND	0.500	"							
Lead	ND	0.300	"							
Nickel	ND	0.500	"							
Selenium	ND	0.500	"							
Silver	ND	0.500	"							
Thallium	ND	0.500	"							
Vanadium	ND	0.500	"							
Zinc	ND	0.500	"							

Reference (BC30908-SRM1)

Prepared & Analyzed: 03/18/2013

Antimony	95.3	0.500	mg/kg wet	120	79.5	20.8-253
Arsenic	154	1.00	"	168	91.4	70.8-130
Barium	192	0.500	"	213	90.3	73.2-127
Beryllium	95.9	0.100	"	110	87.2	75.1-125
Cadmium	88.2	0.500	"	103	85.6	73-126
Chromium	106	0.500	"	119	88.9	69.7-129
Copper	110	0.500	"	118	93.5	74.6-125
Lead	66.0	0.300	"	76.9	85.8	68.7-131
Nickel	74.5	0.500	"	70.0	106	70.9-129
Selenium	117	0.500	"	126	92.8	66.7-134
Silver	36.1	0.500	"	42.3	85.3	66.2-134
Thallium	182	0.500	"	208	87.5	69.2-121
Vanadium	77.5	0.500	"	87.1	88.9	63.1-137
Zinc	244	0.500	"	276	88.6	71.3-129

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	Flag	RPD Limit	Flag
Batch BC30881 - EPA SW846-7471									
Blank (BC30881-BLK1)							Prepared: 03/18/2013 Analyzed: 03/19/2013		
Mercury	ND	0.100	mg/kg wet						
LCS (BC30881-BS1)							Prepared: 03/18/2013 Analyzed: 03/19/2013		
Mercury	3.03		mg/kg	3.73		81.2		67.6-131	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13C0445-01	TRIP BLANK	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
13C0445-07	ELB-3 5'-7'	40mL Vial with Stir Bar-Cool 4° C
13C0445-08	ELB-4 4'-5'	40mL Vial with Stir Bar-Cool 4° C
13C0445-09	ELB-9 3'-4'	40mL Vial with Stir Bar-Cool 4° C
13C0445-10	ELB-13 4'-5'	40mL Vial with Stir Bar-Cool 4° C

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

ANALYTICAL LABORATORIES, INC.
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Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. / 3 C O 445

YOUR Information		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type	
Company: <u>Langan Engineering</u> Address: <u>555 Long Wharf Dr.</u> Phone No.: <u>203.562.5771</u> Contact Person: <u>Kyle Zalaski</u> E-Mail Address: <u>KZalaski@langan.com</u>		Company: <u>Same</u> Address: _____ Phone No.: _____ Attention: _____ E-Mail Address: _____		Company: <u>Same</u> Address: _____ Phone No.: _____ Attention: _____ E-Mail Address: _____		Project ID: <u>10068601</u> Purchase Order No.: <u>10068601</u> Samples from: <input checked="" type="checkbox"/> CT <input checked="" type="checkbox"/> NY <input type="checkbox"/> NJ		<input type="checkbox"/> RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input checked="" type="checkbox"/> Standard (5-7 Days)		Summary Report _____ Summary w/ QA Summary _____ CT RCP Package _____ CTRCP DOA/DUE Plg _____ NY ASP A Package _____ NY ASP B Package _____ NJDEP Red. Deliv. _____ Electronic Data Deliverables (EDD) _____ Simple Excel <input checked="" type="checkbox"/>	
<p>Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.</p>											
Matrix Codes S - soil Other - specify (oil, etc.) WW - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor		Volatiles 8270 (B270) STARS list BN Only Acids Only PAH list TAGM list CT RCP list TCE list NJDEP list App. IX TCEP list 8021B list		Semi-Volatiles 8270 (B270) STARS list BN Only Acids Only PAH list TAGM list CT RCP list TCEP list NJDEP list App. IX TCEP list 8021B list		Metals RCRA8 PP13 list TAL CTETPH NY 310-13 TPH 1664 Air TO15 Air STARS Air VPH Air TICs Methane Helium		Full Lists Pri-Poll TCL Organics TAL MassCN Full TCLP Full App IX Part 300/301a Part 300/301b Part 300/301c NYDEP Part 300/301d NYDEP Part 300/301e NYDEP Part 300/301f NYDEP Part 300/301g NYDEP Part 300/301h NYDEP Part 300/301i NYDEP Part 300/301j NYDEP Part 300/301k NYDEP Part 300/301l NYDEP Part 300/301m NYDEP Part 300/301n NYDEP Part 300/301o NYDEP Part 300/301p NYDEP Part 300/301q NYDEP Part 300/301r NYDEP Part 300/301s NYDEP Part 300/301t NYDEP Part 300/301u NYDEP Part 300/301v NYDEP Part 300/301w NYDEP Part 300/301x NYDEP Part 300/301y NYDEP Part 300/301z		Misc. Comersity Reactivity Ignitability Flash Point Sieve Anal. Hexachlorob TOX BTU/Bh Aquatic Tox. TOC Aroclor Silicon	
<p>Choose Analyses Needed from the Menu Above and Enter Below</p>											
Sample Identification	Sample Matrix	Date Sampled	4°C	Frozen	ZnAc	HCl	MeOH	Ascorbic Acid	HNO ₃	Other	NaOH
TRIP BLANK	AQ	3/13/13 00:00	↓	↓	↓	↓	↓	↓	↓	↓	↓
ELB-8 3'-4'	S	10:40	↓	↓	↓	↓	↓	↓	↓	↓	↓
ELB-7 5'-7'		10:25	↓	↓	↓	↓	↓	↓	↓	↓	↓
ELB-1 10'-11'		09:10	↓	↓	↓	↓	↓	↓	↓	↓	↓
ELB-2 9'-11'		09:30	↓	↓	↓	↓	↓	↓	↓	↓	↓
ELB-10 1'-2'		11:00	↓	↓	↓	↓	↓	↓	↓	↓	↓
ELB-3 5'-7'		11:50	↓	↓	↓	↓	↓	↓	↓	↓	↓
ELB-4 4'-5'		11:25	↓	↓	↓	↓	↓	↓	↓	↓	↓
ELB-9 3'-4'		15:15	↓	↓	↓	↓	↓	↓	↓	↓	↓
ELB-13 4'-5'		14:20	↓	↓	↓	↓	↓	↓	↓	↓	↓
<p>Comments: _____</p>											
Preservation Check those Applicable Special Instructions Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/>						Samples Relinquished By: <u>Juan</u> Date/Time: <u>3/14/13 10:30</u>			Samples Received in LAB by: _____ Date/Time: _____		
Temperature _____ on Receipt						3.8 °C					

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive

New Haven CT, 06511

Attention: Kyle Zalaski

Report Date: 03/22/2013

Client Project ID: 140068601

York Project (SDG) No.: 13C0478

CT License No. PH-0723

New Jersey License No. CT-005



New York License No. 10854

PA License No. 68-04440

Report Date: 03/22/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0478

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 15, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
13C0478-01	TRIP BLANK	Water	03/14/2013	03/15/2013
13C0478-02	HA-3	Soil	03/14/2013	03/15/2013

General Notes for York Project (SDG) No.: 13C0478

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Robert Q. Bradley
Laboratory Director

Date: 03/22/2013

YORK

Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 13C0478-01

<u>York Project (SDG) No.</u> 13C0478	<u>Client Project ID</u> 140068601	<u>Matrix</u> Water	<u>Collection Date/Time</u> March 14, 2013 12:00 am	<u>Date Received</u> 03/15/2013
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Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.024	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.074	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.070	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.11	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.12	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.11	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.46	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.15	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.051	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.059	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.096	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
78-93-3	2-Butanone	ND		ug/L	1.0	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.084	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
591-78-6	2-Hexanone	ND		ug/L	0.24	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.072	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.17	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
67-64-1	Acetone	ND		ug/L	0.90	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
107-13-1	Acrylonitrile	ND		ug/L	0.73	1.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
71-43-2	Benzene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-86-1	Bromobenzene	ND		ug/L	0.081	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
74-97-5	Bromochloromethane	ND		ug/L	0.10	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.054	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-25-2	Bromoform	ND		ug/L	0.079	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS

Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 13C0478-01

York Project (SDG) No.
13C0478

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 14, 2013 12:00 am

Date Received
03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-15-0	Carbon disulfide	ND		ug/L	0.065	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.085	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-90-7	Chlorobenzene	ND		ug/L	0.063	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-00-3	Chloroethane	ND		ug/L	0.090	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
67-66-3	Chloroform	ND		ug/L	0.079	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
74-87-3	Chloromethane	ND		ug/L	0.076	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.069	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.067	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.053	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
74-95-3	Dibromomethane	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.092	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.057	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.12	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.056	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.22	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.48	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-09-2	Methylene chloride	ND		ug/L	0.26	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
91-20-3	Naphthalene	ND		ug/L	0.090	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.083	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
95-47-6	o-Xylene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	0.090	1.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.044	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
100-42-5	Styrene	ND		ug/L	0.043	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.070	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
109-99-9	Tetrahydrofuran	ND		ug/L	1.0	2.0	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
108-88-3	Toluene	ND		ug/L	0.042	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.085	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.060	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.092	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
79-01-6	Trichloroethylene	ND		ug/L	0.071	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.094	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS

Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 13C0478-01

<u>York Project (SDG) No.</u> 13C0478	<u>Client Project ID</u> 140068601	<u>Matrix</u> Water	<u>Collection Date/Time</u> March 14, 2013 12:00 am	<u>Date Received</u> 03/15/2013
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Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.062	0.50	1	SW8260B	03/21/2013 08:21	03/21/2013 15:16	SS

Sample Information

Client Sample ID: HA-3

York Sample ID: 13C0478-02

<u>York Project (SDG) No.</u> 13C0478	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 14, 2013 12:10 pm	<u>Date Received</u> 03/15/2013
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Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.22	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.7	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.57	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.3	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.86	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.71	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.80	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.92	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.2	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.94	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.3	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.68	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.75	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.87	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.69	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.77	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1.0	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	1.1	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.81	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
78-93-3	2-Butanone	ND		ug/kg dry	1.5	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.70	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS

Sample Information

Client Sample ID: HA-3

York Sample ID: 13C0478-02

York Project (SDG) No.
13C0478

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 14, 2013 12:10 pm

Date Received
03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.88	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	1.1	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
67-64-1	Acetone	270		ug/kg dry	11	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	1.4	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
71-43-2	Benzene	ND		ug/kg dry	0.85	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-86-1	Bromobenzene	ND		ug/kg dry	1.1	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.68	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.3	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-25-2	Bromoform	ND		ug/kg dry	0.81	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.9	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.63	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.84	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.85	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.96	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
67-66-3	Chloroform	ND		ug/kg dry	0.87	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.95	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.50	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.79	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	1.0	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
74-95-3	Dibromomethane	ND		ug/kg dry	1.1	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.79	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.50	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.2	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.91	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	1.4	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.64	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-09-2	Methylene chloride	ND		ug/kg dry	1.6	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.9	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.76	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.72	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.63	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/kg dry	1.6	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.53	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.81	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS

Sample Information

Client Sample ID: HA-3

York Sample ID: 13C0478-02

York Project (SDG) No.
13C0478

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 14, 2013 12:10 pm

Date Received
03/15/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/kg dry	0.57	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.81	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.93	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	2.5	17	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
108-88-3	Toluene	ND		ug/kg dry	0.67	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.90	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.89	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	1.6	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.85	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.61	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.47	8.6	1	SW8260B	03/20/2013 09:00	03/20/2013 15:40	SS

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	173	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	74.3	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	127	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	158	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	97.8	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	163	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	76.1	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	332	949	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	331	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	166	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	241	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	148	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	149	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	337	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	144	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	181	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	122	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	190	949	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR

Sample Information

Client Sample ID: HA-3

York Sample ID: 13C0478-02

<u>York Project (SDG) No.</u> 13C0478	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 14, 2013 12:10 pm	<u>Date Received</u> 03/15/2013
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Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	290	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	159	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	242	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	258	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	316	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	409	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
83-32-9	Acenaphthene	ND		ug/kg dry	261	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	145	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
62-53-3	Aniline	ND		ug/kg dry	116	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
120-12-7	Anthracene	ND		ug/kg dry	147	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	142	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	238	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	309	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	325	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	212	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	323	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	172	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	231	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	418	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	134	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
218-01-9	Chrysene	479		ug/kg dry	144	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	232	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	274	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	301	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	148	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	410	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	176	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
206-44-0	Fluoranthene	1030		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
86-73-7	Fluorene	ND		ug/kg dry	302	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	190	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	236	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	119	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	279	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
78-59-1	Isophorone	ND		ug/kg dry	195	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR

Sample Information

Client Sample ID: HA-3

York Sample ID: 13C0478-02

York Project (SDG) No.
13C0478

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 14, 2013 12:10 pm

Date Received
03/15/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	145	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	131	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	475	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	246	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	125	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	209	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
85-01-8	Phenanthrene	510		ug/kg dry	126	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
108-95-2	Phenol	ND		ug/kg dry	128	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
129-00-0	Pyrene	1040		ug/kg dry	352	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR
110-86-1	Pyridine	ND		ug/kg dry	251	475	1	EPA SW-846 8270C	03/19/2013 07:47	03/22/2013 11:11	SR

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW
1336-36-3	Total PCBs	ND		mg/kg dry	0.0475	0.0475	1	EPA SW 846-8082	03/19/2013 07:43	03/20/2013 14:52	JW

Sample Information

Client Sample ID: HA-3

York Sample ID: 13C0478-02

York Project (SDG) No.
13C0478

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 14, 2013 12:10 pm

Date Received
03/15/2013

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	65.7		mg/kg dry	4.04	19.0	1	CT DEP ETPH	03/19/2013 15:01	03/22/2013 12:46	SR

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	0.418	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-38-2	Arsenic	5.23		mg/kg dry	0.645	1.90	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-39-3	Barium	97.7		mg/kg dry	0.247	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.190	0.190	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.190	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-47-3	Chromium	20.9		mg/kg dry	0.228	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-50-8	Copper	40.7		mg/kg dry	0.228	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7439-92-1	Lead	453		mg/kg dry	0.323	0.570	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-02-0	Nickel	24.8		mg/kg dry	0.247	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7782-49-2	Selenium	ND		mg/kg dry	0.949	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-22-4	Silver	ND		mg/kg dry	0.190	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-28-0	Thallium	ND		mg/kg dry	0.608	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-62-2	Vanadium	41.2		mg/kg dry	0.209	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW
7440-66-6	Zinc	200		mg/kg dry	0.171	0.949	1	EPA SW846-6010B	03/19/2013 08:51	03/19/2013 12:05	MW

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.178	0.190	1	EPA SW846-7471	03/19/2013 08:37	03/20/2013 10:19	AA

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	52.7		%	0.100	0.100	1	SM 2540G	03/19/2013 13:16	03/19/2013 13:16	AMC

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13C0478-01	TRIP BLANK	40mL 01_Clear Vial Cool to 4° C
13C0478-02	HA-3	Encore Sampler

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
- B Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.
-
- ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
- RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
- MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
- NR Not reported
- RPD Relative Percent Difference
- Wet The data has been reported on an as-received (wet weight) basis
- Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13C0478

YOUR Information		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type/Deliverables			
Company: <u>Langan Engineering</u>	Company: <u>same</u>	Company: <u>same</u>	Company: <u>same</u>	Company: <u>same</u>	Company: <u>same</u>	Company: <u>same</u>	Company: <u>same</u>	RUSH - Same Day <input type="checkbox"/>	RUSH - Next Day <input type="checkbox"/>	Summary Report			
Address: <u>555 Long Wharf Dr.</u>	Address: _____	Address: _____	Address: _____	Address: _____	Address: _____	Address: _____	Address: _____	RUSH - Two Day <input type="checkbox"/>	RUSH - Three Day <input type="checkbox"/>	Summary w/ QA Summary			
Phone No: <u>203.562.5771</u>	Phone No: _____	Phone No: _____	Phone No: _____	Phone No: _____	Phone No: _____	Phone No: _____	Phone No: _____	RUSH - Four Day <input type="checkbox"/>		CT RCP Package			
Contact Person: <u>Kyle Zalaski</u>	Contact Person: _____	Contact Person: _____	Contact Person: _____	Contact Person: _____	Contact Person: _____	Contact Person: _____	Contact Person: _____			NY ASP A Package			
E-Mail Address: <u>kzalaski@langan.com</u>	E-Mail Address: _____	E-Mail Address: _____	E-Mail Address: _____	E-Mail Address: _____	E-Mail Address: _____	E-Mail Address: _____	E-Mail Address: _____			NY ASP B Package			
										<i>Electronic Deliverables:</i>			
										EDD (Specify Type)			
										Excel pdf & excel			
<p>Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.</p> <p>Matrix Codes: S - soil Other - specify (oil, etc.) WW - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor</p>		<p>Volatiles: TK's Site Spec. Naasun Co. Suffolk Co. Ketones Oxyaranes TAGM list TCLP list CT RCP list 524.2 502.2 NDEHP list Halogens only App. IX list SPL or TCLP 802.1B list</p>		<p>Semi-Vols. (see attachment): 2,3,7,8-PCB's STARS list BIN Only Acids Only PAH list App. IX Site Spec. SPL or TCLP Total Dissolved TCLP Herb SPL or TCLP Chlordane 008 Pest SPL or TCLP Total PCB</p>		<p>Metals: RCLAS PP13 list TAL TT15 list TAGM list NDEHP list Total Dissolved SPL or TCLP Inhib. Meth LIST Below</p>		<p>Misc. Org: TPH GRO TPH DRO CT ETPH NY 310-13 TPH 1664 Air TO14A Air TO15 Air STARS Air VPH Air TCS Methane Hydium</p>		<p>Common Miscellaneous Parameters: Conductivity Reactivity Ignitability Flash Point Sieve/Anal Hexenexpts Chloride Phosphate Tot. Phos. COD Oil & Grease FOAG pH TDS MBAS TPH 1664</p>		<p>Special INSTRUCTIONS: Field Filtered: <input type="checkbox"/> Lab to Filter: <input type="checkbox"/></p>	
<p>Choose Analyses Needed from the Menu Above and Enter Below</p>													
Sample Identification	Date Sampled	Sample Matrix	4°C	Freezer	Zn	Ascorbic Acid	MeOH	H ₂ SO ₄	NaOH	Temperature on Receipt			
TRIP BLANK	3/14/13 00:00	AQ											
HA-3	12:10	SO											
HA-1	11:35												
HA-2	11:45												
HA-4	12:30												
HA-5	12:48												
HA-6	13:00												
HA-7	13:12												
HA-8	13:23												
HA-9	13:30												
Comments	<p>Reporting limits must meet CTDEEP RSRs</p> <p>VOCs (8260) VOCs (8260), SVOCs (8270), PCBs (8002), CTETPH, CT Lusted Metals 8oz glass, 3 ENCORES Lead (Total), PCBs (8002) *HOLD*</p>												
	<p>Preservation: Check those Applicable</p>												
	<p>Samples Relinquished By: <u>[Signature]</u> Date/Time: <u>3/15/13 2:05</u></p>		<p>Samples Relinquished By: <u>[Signature]</u> Date/Time: <u>3/15/13 14:05</u></p>		<p>Samples Received By: <u>[Signature]</u> Date/Time: <u>3/15/13 - 1600</u></p>		<p>Samples Received in LAB by: <u>[Signature]</u> Date/Time: <u>3/15/13 - 1600</u></p>		<p>Temperature on Receipt: <u>3.8 °C</u></p>				

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 130478

YOUR Information		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type/Deliverables																					
Company: <u>Langan Eng.</u>	Company: <u>Same</u>	Company: <u>Same</u>	Company: <u>Same</u>	Purchase Order No. <u>140066601</u>		Standard(5-7 Days) <input checked="" type="checkbox"/>		RUSH - Same Day <input type="checkbox"/>		Summary Report																					
Address: <u>555 Long Wharf Dr.</u>	Address:	Address:	Address:			Samples from: CT <input checked="" type="checkbox"/> NY <input type="checkbox"/> NJ <input type="checkbox"/>		RUSH - Next Day <input type="checkbox"/>		Summary w/ QA Summary																					
Phone No. <u>203.547.5771</u>	Phone No:	Phone No:	Phone No:					RUSH - Two Day <input type="checkbox"/>		CT RCP Package																					
Contact Person: <u>Kyle Zalaski</u>	Attention:	Attention:	Attention:					RUSH - Three Day <input type="checkbox"/>		NY/ASP A Package																					
E-Mail Address: <u>kzalaski@langan.com</u>	E-Mail Address:	E-Mail Address:	E-Mail Address:					RUSH - Four Day <input type="checkbox"/>		NY/ASP B Package																					
<p>Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.</p> <p>Matrix Codes S - soil Other - specify (soil, etc.) WW - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor</p> <p><u>Kyle Zalaski</u> Samples Collected/Authorized By (Signature) <u>Kyle Zalaski</u> Name (printed)</p>				<p>Volatiles K260 full TICs Site Spec. Naasaa Co. STARS list BTEX MTBE Ketones Oxygenates TCLP list TAGM list CT RCP list Acrom. only Halog. only App. IX list 8021B list</p>				<p>Semi-Vols. 8270 or 625 STARS list BIN Only PAH list TAGM list CT RCP list TCLP list NIDEP list App. IX TCLP BNA SPL/PC/TCLP</p>				<p>Metals RCRA8 PF13 list TAL CT15 list TAGM list NIDEP list Total Dissolved SPL/PC/TCLP TCLP Herb Chlordane 608 Pest SPL/PC/TCLP PCB</p>				<p>Misc. Org. TPH GRO TPH DR0 CT ETPH NY 310+L3 TPH 1664 Air TO14A Air TO15 Air STMS Air VPI Air TDS Methane Helium</p>				<p>Common Miscellaneous Parameters Corrosivity Reactivity Ignitability Flash Point Sieve Anal. Hexanaph TOX BTLib Aqueatic Inc. TOC pH Silica</p>				<p>Color Phenols Cyanide-T Cyanide-A BOD5 CBOD5 BOD28 COD TSS Total Solids TDS TPH 1664</p>				<p>Special Instructions Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/></p>			
<p>Choose Analyses Needed from the Menu Above and Enter Below</p>																															
Sample Identification	Date Sampled	Sample Matrix	<p>Lead (total), PCBs (8082) * HOLD #</p>									Container Descriptions																			
HA-10	3/14/13 13:57	SO	↓									1 2oz glass																			
HA-11	13:45		↓																												
HA-12	13:52		↓																												
HA-13	13:58		↓																												
HA-14	14:18		↓																												
HA-15	14:30		↓																												
<p>Comments</p> <p>Reporting Limits must meet CTDEEP RSRs</p>																															
<p>4°C Frozen</p>				<p>HCl</p>				<p>HNO₃</p>				<p>H₂SO₄</p>				<p>NaOH</p>															
<p>Ascorbic Acid</p>				<p>MeOH</p>				<p>Other</p>				<p>Temperature on Receipt <u>3.8 °C</u></p>																			
<p>3/14/13 2:05</p>				<p>3/15/13 14:05</p>				<p>3/15/13 - 1600</p>				<p>3/15/13 - 1600</p>																			
<p>Samples Relinquished By</p>				<p>Samples Received By</p>				<p>Date/Time</p>				<p>Date/Time</p>																			
<p>Samples Relinquished By</p>				<p>Samples Received in LAB by</p>				<p>Date/Time</p>				<p>Date/Time</p>																			

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive

New Haven CT, 06511

Attention: Kyle Zalaski

Report Date: 04/03/2013

Client Project ID: 140068601

York Project (SDG) No.: 13D0073

CT License No. PH-0723

New Jersey License No. CT-005



New York License No. 10854

PA License No. 68-04440

Report Date: 04/03/2013
Client Project ID: 140068601
York Project (SDG) No.: 13D0073

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 15, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
13D0073-01	HA-1	Soil	03/14/2013	03/15/2013
13D0073-02	HA-2	Soil	03/14/2013	03/15/2013
13D0073-03	HA-4	Soil	03/14/2013	03/15/2013
13D0073-04	HA-5	Soil	03/14/2013	03/15/2013
13D0073-05	HA-14	Soil	03/14/2013	03/15/2013
13D0073-06	HA-15	Soil	03/14/2013	03/15/2013
13D0073-07	HA-16	Soil	03/28/2013	03/15/2013
13D0073-08	HA-17	Soil	03/28/2013	03/15/2013

General Notes for York Project (SDG) No.: 13D0073

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Robert Q. Bradley
Laboratory Director

Date: 04/03/2013



Sample Information

Client Sample ID: HA-1

York Sample ID: 13D0073-01

<u>York Project (SDG) No.</u> 13D0073	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 14, 2013 11:35 am	<u>Date Received</u> 03/15/2013
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Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	713		mg/kg dry	0.213	0.377	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 02:43	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	79.7		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-2

York Sample ID: 13D0073-02

<u>York Project (SDG) No.</u> 13D0073	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 14, 2013 11:45 am	<u>Date Received</u> 03/15/2013
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Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	17100		mg/kg dry	22.7	40.1	100	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:11	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	74.9		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-4

York Sample ID: 13D0073-03

<u>York Project (SDG) No.</u> 13D0073	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 14, 2013 12:30 pm	<u>Date Received</u> 03/15/2013
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Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	36.0		mg/kg dry	0.185	0.327	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:18	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	91.8		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-5		York Sample ID: 13D0073-04	
<u>York Project (SDG) No.</u> 13D0073	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 14, 2013 12:48 pm
		<u>Date Received</u> 03/15/2013	

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	410		mg/kg dry	0.216	0.381	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:22	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	78.7		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-14		York Sample ID: 13D0073-05	
<u>York Project (SDG) No.</u> 13D0073	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 14, 2013 2:18 pm
		<u>Date Received</u> 03/15/2013	

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	834		mg/kg dry	0.214	0.377	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:27	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	79.5		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-15		York Sample ID: 13D0073-06	
<u>York Project (SDG) No.</u> 13D0073	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 14, 2013 2:30 pm
		<u>Date Received</u> 03/15/2013	

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	428		mg/kg dry	0.230	0.406	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:31	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	73.9		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-16

York Sample ID: 13D0073-07

<u>York Project (SDG) No.</u> 13D0073	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 28, 2013 11:00 am	<u>Date Received</u> 03/15/2013
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Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	56.4		mg/kg dry	0.182	0.321	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:36	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	93.5		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Sample Information

Client Sample ID: HA-17

York Sample ID: 13D0073-08

<u>York Project (SDG) No.</u> 13D0073	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 28, 2013 11:10 am	<u>Date Received</u> 03/15/2013
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Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	140		mg/kg dry	0.194	0.343	1	EPA SW846-6010B	04/02/2013 15:16	04/03/2013 03:40	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	87.5		%	0.100	0.100	1	SM 2540G	04/03/2013 11:59	04/03/2013 11:59	AMC

Notes and Definitions

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

Field Chain-of-Custody Record

York Project No. 13D0033

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
 This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

YOUR Information Company: <u>Lanscom Engineering</u> Address: <u>655 Longfellow Dr</u> <u>New Haven, CT 06511</u> Phone No: <u>203 567-5771</u> Contact Person: <u>Kyle Zaluski</u> E-Mail Address: <u>KZaluski@lanscom.com</u>		Report To: Company: <u>Same</u> Address: _____ Phone No: _____ Attention: _____ E-Mail Address: _____		Invoice To: Company: <u>Same</u> Address: _____ Phone No: _____ Attention: _____ E-Mail Address: _____		YOUR Project ID Micro Org: _____ Purchase Order No. <u>140068603</u> Purchase Order No. <u>140068603</u> Samples from: <input checked="" type="checkbox"/> CTX <input type="checkbox"/> NY <input type="checkbox"/> NJ		Turn-Around Time RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> Standard (5-7 Days) <input checked="" type="checkbox"/>		Report Type Summary Report _____ Summary to QA <input checked="" type="checkbox"/> CT RCP Package _____ CTRCP/DQA/DUE Pkg _____ NY ASP/A Package _____ NY ASP/B Package _____ NJ DEP Rad. Defn. _____ Electronic Data Deliverables (EDD) _____ Sample Excel _____ NYSD/CT E-QuIS _____ EO/IS (Std) _____ EZ-EDD (EQoLS) _____ NJ DEP SRP HazSite EDD _____ GIS/KEY (Std) _____ Other _____ York Regulatory Comparison _____ Excel Spreadsheet _____ Computer to file following steps: (select all that apply) _____	
Matrix Codes S - soil Other - specify (ok to use) WW - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor		Volatiles 6240 Hal. _____ 624 _____ STARS list _____ HTEX _____ MTBE _____ TOL/BA _____ TAGM list _____ CT RCP list _____ Arom. only _____ Heavy only _____ App. IX list _____ 4021H list _____		Semi-Volatiles STARS list _____ BSN Only _____ Acids Only _____ PAH list _____ IACM list _____ CT RCP list _____ JCC list _____ NDEP list _____ App. IX _____ TCLP BNA _____ SP/PC RCP list _____ 4021H list _____		Metals RCRA _____ PPI list _____ TAL _____ CT list _____ TAGM list _____ NDEP list _____ Dissolved _____ SP/PC RCP _____ Metals/Minerals _____ EDT list _____ Hg list _____		Full Lists Pb list _____ TCL Organics _____ TOC MarC _____ Full TCLP _____ Full App. IX _____ Inc. Volatiles _____ Inc. 304/306 _____ Ppt. 305 _____ Ppt. 307 _____ NYSD/CT _____ IACM _____ Hg list _____		Micro Organisms TPH C400 _____ TPH DRO _____ CT EPHI _____ SV 110.1 _____ TPH 1064 _____ Air TO14A _____ Air TO15 _____ Air STARS _____ Air VPH _____ Air TCS _____ NYSDEC _____ IACM _____ Hg list _____	
Choose Analyses Needed from the Menu Above and Enter Below											
Sample Matrix HA-16 HA-17		Date Sampled 7/24/13 11:00 7/24/13 11:10		Sample Matrix SO SO		Comments Lead *Hold analysis until authorized by Lanscom Lead *Hold analysis until authorized by Lanscom		Temperature on Receipt 21°C			

Field Chain-of-Custody Record

NOTE: York's test forms are provided as a guide only. They do not constitute a contract. York is not responsible for the accuracy of the analysis or the results of the analysis. York is not responsible for the accuracy of the analysis or the results of the analysis. York is not responsible for the accuracy of the analysis or the results of the analysis.

Page 1 of 2
1300073
York Project No. 13C0478

YOUR Information		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type/Deliverables			
Company: Lanyan Engineering Address: 555 Long Wharf Dr. New Haven, CT Phone No: 203.562.5771 Contact Person: Kyle Zelaski E-Mail Address: kzelaski@lanyan.com		Company: Same Address: Same Phone No: Attention: E-Mail Address:		Company: Same Address: Same Phone No: Attention: E-Mail Address:		Project ID: H0068601 Purchase Order No.: H0068601 Samples from: <input checked="" type="checkbox"/> NY <input type="checkbox"/> NJ		RUSH - Same Day RUSH - Next Day RUSH - Two Day RUSH - Three Day RUSH - Four Day Standard (5-7 Days) <input checked="" type="checkbox"/>		Summary Report Summary w/ QA CT RCP Package NY ASP-A Package NY ASP-B Package Maximum Dilution EMD (Specify Type) Exced pdf & excel			
Matrix Codes: S - soil Other - specify soil in I WW - wastewater GW - groundwater DW - drinking water Air - ambient air Air - soil vapor		Volatiles: H ₂ O Benzene Toluene Ethyl Benzene Xylene m-Xylene p-Xylene Styrene Acetone MEK Chloroform TCE PCE TCE/PE TCE/PE/STP TCE/PE/STP/PAH TCE/PE/STP/PAH/PCB		Semi-Volatile: PCBs PAHs PCBs/PAHs PCBs/PAHs/PCB PCBs/PAHs/PCB/PAH PCBs/PAHs/PCB/PAH/PCB PCBs/PAHs/PCB/PAH/PCB/PAH PCBs/PAHs/PCB/PAH/PCB/PAH/PCB		Metals: As Cd Cr Cu Fe Hg Mn Ni Pb Se Zn Al Ag Ba Bi Br Ca Co Cs Dy Er Eu Ga Ge In Ir K La Li Lu Mg Mo Na Nb Nd Ni Np O Os Pd P Pt Rb Rh Ru S Sb Sn Sr Tl U V W Y Zn Zr		Full Lab: Per Fill TCE/PAHs PCBs/PAHs PCBs/PAHs/PCB PCBs/PAHs/PCB/PAH PCBs/PAHs/PCB/PAH/PCB PCBs/PAHs/PCB/PAH/PCB/PAH PCBs/PAHs/PCB/PAH/PCB/PAH/PCB		Miscellaneous Parameters: Color Turbidity Total Solids Total Suspended Solids Total Dissolved Solids Total Hardness Total Alkalinity Total Acidity Total Chloride Total Sulfate Total Phosphate Total Nitrate Total Ammonia Nitrogen Total Nitrite Nitrogen Total Nitrogen Total Phosphorus Total Sulfur Total Silicon Total Zinc Total Barium Total Strontium Total Calcium Total Magnesium Total Potassium Total Sodium Total Chloride Total Sulfate Total Phosphate Total Nitrate Total Ammonia Nitrogen Total Nitrite Nitrogen Total Nitrogen Total Phosphorus Total Sulfur Total Silicon Total Zinc Total Barium Total Strontium Total Calcium Total Magnesium Total Potassium Total Sodium		Special INSTRUCTIONS: Field/Hand Lab Filter	
Kyle Zelaski Samples Collected/Authorized By (Signature) Kyle Zelaski Name (Printed)		Choose Analyses Needed from the Menu Above and Enter Below VOCs (9240) VOCs (8140), SVOCs (8170), PCBs (8092), CTETPA, CT Listed Metals Lead (Total), PCBs (8092) *HOLD*		2 Vials 8oz glass 3 envelopes 1 2oz glass									
Sample Identification	Date Sampled	Sample Matrix	Matrix Code	Preservation	Check those Applicable	IC	PCB/PAHs	Zn	As	Mo	HNO ₃	NaOH	Temperature on Receipt
TRIP BLANK	3/13 00:00	AQ											3.8°C
HA-3	12:10	SO											
HA-1 +	11:35												
HA-2 -	11:45												
HA-4 -	12:30												
HA-5 -	12:48												
HA-6	13:00												
HA-7	13:12												
HA-B	13:23												
HA-9	13:30												
Comments: Reporting limits must meet CTDEEP RSRs													
Samples Relinquished By: [Signature] Date/Time: 3/13/13 2:05 Samples Received By: [Signature] Date/Time: 3/15/13 14:05 Samples Relinquished in LAB by: [Signature] Date/Time: 3/15/13 16:00													

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive

New Haven CT, 06511

Attention: Kyle Zalaski

Report Date: 04/04/2013

Client Project ID: 140068601

York Project (SDG) No.: 13D0164

CT License No. PH-0723

New Jersey License No. CT-005



New York License No. 10854

PA License No. 68-04440

Report Date: 04/04/2013
Client Project ID: 140068601
York Project (SDG) No.: 13D0164

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 15, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
13D0164-01	HA-1	Soil	03/14/2013	03/15/2013
13D0164-02	HA-2	Soil	03/14/2013	03/15/2013
13D0164-03	HA-4	Soil	03/14/2013	03/15/2013
13D0164-04	HA-5	Soil	03/14/2013	03/15/2013
13D0164-05	HA-14	Soil	03/14/2013	03/15/2013
13D0164-06	HA-15	Soil	03/14/2013	03/15/2013
13D0164-07	HA-16	Soil	03/28/2013	03/15/2013
13D0164-08	HA-17	Soil	03/28/2013	03/15/2013

General Notes for York Project (SDG) No.: 13D0164

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Robert Q. Bradley
Laboratory Director

Date: 04/04/2013



Sample Information

Client Sample ID: HA-1

York Sample ID: 13D0164-01

<u>York Project (SDG) No.</u> 13D0164	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 14, 2013 11:35 am	<u>Date Received</u> 03/15/2013
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TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.562		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:23	MW

Sample Information

Client Sample ID: HA-2

York Sample ID: 13D0164-02

<u>York Project (SDG) No.</u> 13D0164	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 14, 2013 11:45 am	<u>Date Received</u> 03/15/2013
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TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.673		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:40	MW

Sample Information

Client Sample ID: HA-4

York Sample ID: 13D0164-03

<u>York Project (SDG) No.</u> 13D0164	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 14, 2013 12:30 pm	<u>Date Received</u> 03/15/2013
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TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.174		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:48	MW

Sample Information

Client Sample ID: HA-5

York Sample ID: 13D0164-04

York Project (SDG) No.
13D0164

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 14, 2013 12:48 pm

Date Received
03/15/2013

TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.290		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:53	MW

Sample Information

Client Sample ID: HA-14

York Sample ID: 13D0164-05

York Project (SDG) No.
13D0164

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 14, 2013 2:18 pm

Date Received
03/15/2013

TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	2.88		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 12:58	MW

Sample Information

Client Sample ID: HA-15

York Sample ID: 13D0164-06

York Project (SDG) No.
13D0164

Client Project ID
140068601

Matrix
Soil

Collection Date/Time
March 14, 2013 2:30 pm

Date Received
03/15/2013

TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0629		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 13:03	MW

Sample Information

Client Sample ID: HA-16

York Sample ID: 13D0164-07

<u>York Project (SDG) No.</u> 13D0164	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 28, 2013 11:00 am	<u>Date Received</u> 03/15/2013
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TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0392		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 13:08	MW

Sample Information

Client Sample ID: HA-17

York Sample ID: 13D0164-08

<u>York Project (SDG) No.</u> 13D0164	<u>Client Project ID</u> 140068601	<u>Matrix</u> Soil	<u>Collection Date/Time</u> March 28, 2013 11:10 am	<u>Date Received</u> 03/15/2013
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TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1311	04/03/2013 17:00	04/04/2013 10:22	KK

Lead TCLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0410		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	04/04/2013 10:43	04/04/2013 13:13	MW

Analytical Batch Summary

Batch ID: BD30169

Preparation Method: EPA SW 846-1311 TCLP ext. for meta

Prepared By: KK

YORK Sample ID	Client Sample ID	Preparation Date
13D0164-01	HA-1	04/03/13
13D0164-02	HA-2	04/03/13
13D0164-03	HA-4	04/03/13
13D0164-04	HA-5	04/03/13
13D0164-05	HA-14	04/03/13
13D0164-06	HA-15	04/03/13
13D0164-07	HA-16	04/03/13
13D0164-08	HA-17	04/03/13
BD30169-BLK1	Blank	04/03/13

Batch ID: BD30194

Preparation Method: EPA 3010A

Prepared By: MW

YORK Sample ID	Client Sample ID	Preparation Date
13D0164-01	HA-1	04/04/13
13D0164-02	HA-2	04/04/13
13D0164-03	HA-4	04/04/13
13D0164-04	HA-5	04/04/13
13D0164-05	HA-14	04/04/13
13D0164-06	HA-15	04/04/13
13D0164-07	HA-16	04/04/13
13D0164-08	HA-17	04/04/13
BD30194-BLK1	Blank	04/04/13
BD30194-BLK2	Blank	04/04/13
BD30194-SRM1	Reference	04/04/13

TCLP Extraction by EPA SW-846 1311 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BD30169 - EPA SW 846-1311 TCLP ext. for metals

Blank (BD30169-BLK1)

Prepared: 04/03/2013 Analyzed: 04/04/2013

TCLP Extraction	Completed	1.00	N/A								
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TCLP Metals by EPA SW846-1311/6010B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	Flag	RPD Limit	Flag
Batch BD30194 - EPA 3010A									
Blank (BD30194-BLK1)							Prepared & Analyzed: 04/04/2013		
Lead	ND	0.00300	mg/L						
Blank (BD30194-BLK2)							Prepared & Analyzed: 04/04/2013		
Lead	ND	0.00300	mg/L						
Reference (BD30194-SRM1)							Prepared & Analyzed: 04/04/2013		
Lead	0.268	0.00300	mg/L	0.259		103		85.7-114	

Notes and Definitions

EXT-COMP Completed

- ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
- RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
- MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
- NR Not reported
- RPD Relative Percent Difference
- Wet The data has been reported on an as-received (wet weight) basis
- Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
- Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.



Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive

New Haven CT, 06511

Attention: Kyle Zalaski

Report Date: 05/02/2013

Client Project ID: 140068601

York Project (SDG) No.: 13E0026

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 05/02/2013
Client Project ID: 140068601
York Project (SDG) No.: 13E0026

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 15, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
13E0026-01	HA-6	Soil	03/14/2013	03/15/2013
13E0026-02	HA-7	Soil	03/14/2013	03/15/2013

General Notes for York Project (SDG) No.: 13E0026

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 05/02/2013

YORK



Sample Information

Client Sample ID: HA-6 **York Sample ID:** 13E0026-01
York Project (SDG) No. 13E0026 **Client Project ID** 140068601 **Matrix** Soil **Collection Date/Time** March 14, 2013 1:00 pm **Date Received** 03/15/2013

TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed	HT-01R	N/A	1.00	1.00	1	EPA SW846-1311	05/01/2013 17:25	05/02/2013 10:00	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	92.9		mg/kg dry	0.209	0.368	1	EPA SW846-6010B	05/02/2013 08:59	05/02/2013 13:37	MW

Lead TCLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0287		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	05/02/2013 09:49	05/02/2013 15:29	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	81.5		%	0.100	0.100	1	SM 2540G	05/02/2013 10:39	05/02/2013 10:39	AMC

Sample Information

Client Sample ID: HA-7 **York Sample ID:** 13E0026-02
York Project (SDG) No. 13E0026 **Client Project ID** 140068601 **Matrix** Soil **Collection Date/Time** March 14, 2013 1:12 pm **Date Received** 03/15/2013

TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed	HT-01R	N/A	1.00	1.00	1	EPA SW846-1311	05/01/2013 17:25	05/02/2013 10:00	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	149		mg/kg dry	0.208	0.368	1	EPA SW846-6010B	05/02/2013 08:59	05/02/2013 13:42	MW

Lead TCLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0342		mg/L	0.00220	0.00300	1	EPA SW846-6010B/1311	05/02/2013 09:49	05/02/2013 15:34	MW



Sample Information

Client Sample ID: HA-7

York Sample ID: 13E0026-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13E0026

140068601

Soil

March 14, 2013 1:12 pm

03/15/2013

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	81.6		%	0.100	0.100	1	SM 2540G	05/02/2013 10:39	05/02/2013 10:39	AMC



Analytical Batch Summary

Batch ID: BE30046 **Preparation Method:** EPA SW 846-1311 TCLP ext. for meta **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
13E0026-01	HA-6	05/01/13
13E0026-02	HA-7	05/01/13
BE30046-BLK1	Blank	05/01/13

Batch ID: BE30071 **Preparation Method:** % Solids Prep **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13E0026-01	HA-6	05/02/13
13E0026-02	HA-7	05/02/13

Batch ID: BE30077 **Preparation Method:** EPA 3050B **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13E0026-01	HA-6	05/02/13
13E0026-02	HA-7	05/02/13
BE30077-BLK1	Blank	05/02/13
BE30077-SRM1	Reference	05/02/13

Batch ID: BE30078 **Preparation Method:** EPA 3010A **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13E0026-01	HA-6	05/02/13
13E0026-02	HA-7	05/02/13
BE30078-BLK1	Blank	05/02/13
BE30078-BLK2	Blank	05/02/13
BE30078-SRM1	Reference	05/02/13



TCLP Extraction by EPA SW-846 1311 - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BE30046 - EPA SW 846-1311 TCLP ext. for metals

Blank (BE30046-BLK1)

Prepared: 05/01/2013 Analyzed: 05/02/2013

TCLP Extraction	Completed	1.00	N/A								
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Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE30077 - EPA 3050B											
Blank (BE30077-BLK1)											
Lead	ND	0.300	mg/kg wet								Prepared & Analyzed: 05/02/2013
Reference (BE30077-SRM1)											
Lead	85.9	0.300	mg/kg wet	91.7		93.7	70.2-130				Prepared & Analyzed: 05/02/2013



TCLP Metals by EPA SW846-1311/6010B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BE30078 - EPA 3010A											
Blank (BE30078-BLK1)											
Lead	ND	0.00300	mg/L								Prepared & Analyzed: 05/02/2013
Blank (BE30078-BLK2)											
Lead	ND	0.00300	mg/L								Prepared & Analyzed: 05/02/2013
Reference (BE30078-SRM1)											
Lead	0.246	0.00300	mg/L	0.259		94.9	85.7-114				



Notes and Definitions

HT-01R This flag indicates that the sample was initially analyzed within recommended hold time and that a re-run was performed outside of the hold time.

EXT-COMP Completed

ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.



Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive

New Haven CT, 06511

Attention: Kathleen Blessing

Report Date: 06/05/2013

Client Project ID: 140068605

York Project (SDG) No.: 13F0003

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kathleen Blessing

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 31, 2013 and listed below. The project was identified as your project: **140068605**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
13F0003-01	HA-6 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-02	ELB-15 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-04	ELB-16 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-06	HA-7A 1.0-1.5	Soil	05/30/2013	05/31/2013
13F0003-07	ELB-17 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-09	ELB-18 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-11	ELB-19 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-13	ELB-20 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-14	ELB-21 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-15	ELB-22 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-17	HA-17A 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-18	HA-16A 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-19	HA-15A 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-20	ELB-25A 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-21	ELB-26 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-22	ELB-27 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-24	ELB-28 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-25	ELB-29 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-27	ELB-30 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-28	HA-1A 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-30	HA-2A 1.5-2	Soil	05/30/2013	05/31/2013
13F0003-31	ELB-31 0.5-1	Soil	05/30/2013	05/31/2013
13F0003-33	DUP	Soil	05/30/2013	05/31/2013

General Notes for York Project (SDG) No.: 13F0003

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results  ples submitted on the attached chain-of-custody form(s) received by York.

Approved By:

Benjamin Gulizia
Laboratory Director

Date: 06/05/2013

YORK



Sample Information

Client Sample ID: HA-6 1.5-2 **York Sample ID:** 13F0003-01
York Project (SDG) No. 13F0003 **Client Project ID** 140068605 **Matrix** Soil **Collection Date/Time** May 30, 2013 9:15 am **Date Received** 05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	84.0		mg/kg dry	0.196	0.345	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 17:49	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0364		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/04/2013 23:42	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	86.9		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-15 0.5-1 **York Sample ID:** 13F0003-02
York Project (SDG) No. 13F0003 **Client Project ID** 140068605 **Matrix** Soil **Collection Date/Time** May 30, 2013 9:25 am **Date Received** 05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	23.8		mg/kg dry	0.198	0.349	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:06	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0103		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:00	MW



Sample Information

Client Sample ID: ELB-15 0.5-1

York Sample ID: 13F0003-02

<u>York Project (SDG) No.</u> 13F0003	<u>Client Project ID</u> 140068605	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2013 9:25 am	<u>Date Received</u> 05/31/2013
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Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	85.9		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-16 0.5-1

York Sample ID: 13F0003-04

<u>York Project (SDG) No.</u> 13F0003	<u>Client Project ID</u> 140068605	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2013 9:34 am	<u>Date Received</u> 05/31/2013
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SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	131		mg/kg dry	0.182	0.321	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:11	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0548		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:05	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	93.5		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: HA-7A 1.0-1.5

York Sample ID: 13F0003-06

<u>York Project (SDG) No.</u> 13F0003	<u>Client Project ID</u> 140068605	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2013 9:44 am	<u>Date Received</u> 05/31/2013
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SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK



Sample Information

Client Sample ID: HA-7A 1.0-1.5

York Sample ID: 13F0003-06

<u>York Project (SDG) No.</u> 13F0003	<u>Client Project ID</u> 140068605	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2013 9:44 am	<u>Date Received</u> 05/31/2013
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Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	123		mg/kg dry	0.202	0.356	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:16	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0164		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:10	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	84.2		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-17 0.5-1

York Sample ID: 13F0003-07

<u>York Project (SDG) No.</u> 13F0003	<u>Client Project ID</u> 140068605	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2013 9:50 am	<u>Date Received</u> 05/31/2013
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SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	142		mg/kg dry	0.204	0.360	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:20	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0339		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:15	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	83.4		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC



Sample Information

Client Sample ID: ELB-18 0.5-1

York Sample ID: 13F0003-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13F0003

140068605

Soil

May 30, 2013 10:17 am

05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	170		mg/kg dry	0.203	0.359	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:25	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0860		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:32	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	83.6		%	0.100	0.100	1	SM 2540G	06/03/2013 10:54	06/04/2013 12:29	AMC

Sample Information

Client Sample ID: ELB-19 0.5-1

York Sample ID: 13F0003-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13F0003

140068605

Soil

May 30, 2013 10:27 am

05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	81.2		mg/kg dry	0.199	0.350	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 18:42	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0107		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:37	MW

Total Solids

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: ELB-19 0.5-1

York Sample ID: 13F0003-11

York Project (SDG) No. 13F0003 Client Project ID 140068605 Matrix Soil Collection Date/Time May 30, 2013 10:27 am Date Received 05/31/2013

Sample Prepared by Method: % Solids Prep

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: solids, % Solids, 85.6, %, 0.100, 0.100, 1, SM 2540G, 06/03/2013 10:54, 06/04/2013 12:29, AMC

Sample Information

Client Sample ID: ELB-20 0.5-1

York Sample ID: 13F0003-13

York Project (SDG) No. 13F0003 Client Project ID 140068605 Matrix Soil Collection Date/Time May 30, 2013 10:35 am Date Received 05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: SPLP Extraction, Completed, N/A, 1.00, 1.00, 1, EPA SW846-1312, 06/03/2013 16:30, 06/04/2013 15:02, KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7439-92-1, Lead, 242, mg/kg dry, 0.201, 0.354, 1, EPA SW846-6010B, 06/03/2013 13:05, 06/03/2013 18:47, AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7439-92-1, Lead, 0.0566, mg/L, 0.00220, 0.00300, 1, EPA SW846-6010B, 06/04/2013 15:45, 06/05/2013 00:42, MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: solids, % Solids, 84.8, %, 0.100, 0.100, 1, SM 2540G, 06/03/2013 10:54, 06/04/2013 12:29, AMC

Sample Information

Client Sample ID: ELB-21 0.5-1

York Sample ID: 13F0003-14

York Project (SDG) No. 13F0003 Client Project ID 140068605 Matrix Soil Collection Date/Time May 30, 2013 10:38 am Date Received 05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: SPLP Extraction, Completed, N/A, 1.00, 1.00, 1, EPA SW846-1312, 06/03/2013 16:30, 06/04/2013 15:02, KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: ELB-21 0.5-1

York Sample ID: 13F0003-14

York Project (SDG) No. 13F0003 Client Project ID 140068605 Matrix Soil Collection Date/Time May 30, 2013 10:38 am Date Received 05/31/2013

Sample Prepared by Method: EPA 3050B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7439-92-1, Lead, 64.8, mg/kg dry, 0.206, 0.363, 1, EPA SW846-6010B, 06/03/2013 13:05, 06/03/2013 18:52, AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7439-92-1, Lead, 0.00999, mg/L, 0.00220, 0.00300, 1, EPA SW846-6010B, 06/04/2013 15:45, 06/05/2013 00:47, MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: solids, % Solids, 82.6, %, 0.100, 0.100, 1, SM 2540G, 06/03/2013 10:54, 06/04/2013 12:29, AMC

Sample Information

Client Sample ID: ELB-22 0.5-1

York Sample ID: 13F0003-15

York Project (SDG) No. 13F0003 Client Project ID 140068605 Matrix Soil Collection Date/Time May 30, 2013 11:04 am Date Received 05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: SPLP Extraction, Completed, N/A, 1.00, 1.00, 1, EPA SW846-1312, 06/03/2013 16:30, 06/04/2013 15:02, KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7439-92-1, Lead, 95.3, mg/kg dry, 0.201, 0.354, 1, EPA SW846-6010B, 06/03/2013 13:05, 06/03/2013 18:57, AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7439-92-1, Lead, 0.0265, mg/L, 0.00220, 0.00300, 1, EPA SW846-6010B, 06/04/2013 15:45, 06/05/2013 00:52, MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: solids, % Solids, 84.8, %, 0.100, 0.100, 1, SM 2540G, 06/03/2013 10:55, 06/04/2013 12:33, AMC



Sample Information

Client Sample ID: HA-17A 1.5-2

York Sample ID: 13F0003-17

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13F0003

140068605

Soil

May 30, 2013 11:10 am

05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	34.7		mg/kg dry	0.214	0.378	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:02	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.00782		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 00:57	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	79.4		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: HA-16A 1.5-2

York Sample ID: 13F0003-18

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13F0003

140068605

Soil

May 30, 2013 11:20 am

05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	259		mg/kg dry	0.207	0.365	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:07	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0116		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:02	MW

Total Solids

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: HA-16A 1.5-2

York Sample ID: 13F0003-18

<u>York Project (SDG) No.</u> 13F0003	<u>Client Project ID</u> 140068605	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2013 11:20 am	<u>Date Received</u> 05/31/2013
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Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	82.2		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: HA-15A 1.5-2

York Sample ID: 13F0003-19

<u>York Project (SDG) No.</u> 13F0003	<u>Client Project ID</u> 140068605	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2013 12:28 pm	<u>Date Received</u> 05/31/2013
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Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	8.30		mg/kg dry	0.174	0.307	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:12	AMC

Lead, SPLP by EPA 6010

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.00579		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:07	MW

Total Solids

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	97.7		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-25A 0.5-1

York Sample ID: 13F0003-20

<u>York Project (SDG) No.</u> 13F0003	<u>Client Project ID</u> 140068605	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2013 12:35 pm	<u>Date Received</u> 05/31/2013
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Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010



Sample Information

Client Sample ID: ELB-25A 0.5-1

York Sample ID: 13F0003-20

<u>York Project (SDG) No.</u> 13F0003	<u>Client Project ID</u> 140068605	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2013 12:35 pm	<u>Date Received</u> 05/31/2013
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Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	67.7		mg/kg dry	0.180	0.318	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:17	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0193		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:12	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	94.5		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-26 0.5-1

York Sample ID: 13F0003-21

<u>York Project (SDG) No.</u> 13F0003	<u>Client Project ID</u> 140068605	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2013 12:40 pm	<u>Date Received</u> 05/31/2013
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SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	1640		mg/kg dry	0.224	0.395	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:22	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.195		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:17	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	75.9		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC



Sample Information

Client Sample ID: ELB-27 0.5-1

York Sample ID: 13F0003-22

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13F0003

140068605

Soil

May 30, 2013 12:50 pm

05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	835		mg/kg dry	0.200	0.353	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:29	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.153		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:34	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	85.1		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-28 0.5-1

York Sample ID: 13F0003-24

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13F0003

140068605

Soil

May 30, 2013 12:55 pm

05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	71.8		mg/kg dry	0.203	0.359	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:46	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0664		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:39	MW

Total Solids

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: ELB-28 0.5-1

York Sample ID: 13F0003-24

<u>York Project (SDG) No.</u> 13F0003	<u>Client Project ID</u> 140068605	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2013 12:55 pm	<u>Date Received</u> 05/31/2013
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Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	83.6		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-29 0.5-1

York Sample ID: 13F0003-25

<u>York Project (SDG) No.</u> 13F0003	<u>Client Project ID</u> 140068605	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2013 1:13 pm	<u>Date Received</u> 05/31/2013
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Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	282		mg/kg dry	0.208	0.367	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:51	AMC

Lead, SPLP by EPA 6010

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0444		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:44	MW

Total Solids

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	81.7		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-30 0.5-1

York Sample ID: 13F0003-27

<u>York Project (SDG) No.</u> 13F0003	<u>Client Project ID</u> 140068605	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2013 1:30 pm	<u>Date Received</u> 05/31/2013
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Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010



Sample Information

Client Sample ID: ELB-30 0.5-1

York Sample ID: 13F0003-27

York Project (SDG) No. 13F0003 Client Project ID 140068605 Matrix Soil Collection Date/Time May 30, 2013 1:30 pm Date Received 05/31/2013

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	310		mg/kg dry	0.199	0.351	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 19:56	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0265		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:49	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	85.5		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: HA-1A 1.5-2

York Sample ID: 13F0003-28

York Project (SDG) No. 13F0003 Client Project ID 140068605 Matrix Soil Collection Date/Time May 30, 2013 1:45 pm Date Received 05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:02	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	106		mg/kg dry	0.203	0.359	1	EPA SW846-6010B	06/03/2013 13:05	06/03/2013 20:00	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0364		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:45	06/05/2013 01:54	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	83.6		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC



Sample Information

Client Sample ID: HA-2A 1.5-2

York Sample ID: 13F0003-30

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13F0003

140068605

Soil

May 30, 2013 2:22 pm

05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	20.2		mg/kg dry	0.183	0.324	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 20:22	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0105		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 02:19	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	92.7		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: ELB-31 0.5-1

York Sample ID: 13F0003-31

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13F0003

140068605

Soil

May 30, 2013 2:15 pm

05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	24.6		mg/kg dry	0.179	0.317	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 20:27	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 02:36	MW

Total Solids

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: ELB-31 0.5-1

York Sample ID: 13F0003-31

<u>York Project (SDG) No.</u> 13F0003	<u>Client Project ID</u> 140068605	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2013 2:15 pm	<u>Date Received</u> 05/31/2013
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Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	94.7		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC

Sample Information

Client Sample ID: DUP

York Sample ID: 13F0003-33

<u>York Project (SDG) No.</u> 13F0003	<u>Client Project ID</u> 140068605	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2013 3:00 pm	<u>Date Received</u> 05/31/2013
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SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	55.4		mg/kg dry	0.204	0.361	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 20:32	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0294		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 02:41	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	83.2		%	0.100	0.100	1	SM 2540G	06/03/2013 10:55	06/04/2013 12:33	AMC



Analytical Batch Summary

Batch ID: BF30036

Preparation Method: % Solids Prep

Prepared By: AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-01	HA-6 1.5-2	06/03/13
13F0003-02	ELB-15 0.5-1	06/03/13
13F0003-04	ELB-16 0.5-1	06/03/13
13F0003-06	HA-7A 1.0-1.5	06/03/13
13F0003-07	ELB-17 0.5-1	06/03/13
13F0003-09	ELB-18 0.5-1	06/03/13
13F0003-11	ELB-19 0.5-1	06/03/13
13F0003-13	ELB-20 0.5-1	06/03/13
13F0003-14	ELB-21 0.5-1	06/03/13

Batch ID: BF30037

Preparation Method: % Solids Prep

Prepared By: AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-15	ELB-22 0.5-1	06/03/13
13F0003-17	HA-17A 1.5-2	06/03/13
13F0003-18	HA-16A 1.5-2	06/03/13
13F0003-19	HA-15A 1.5-2	06/03/13
13F0003-20	ELB-25A 0.5-1	06/03/13
13F0003-21	ELB-26 0.5-1	06/03/13
13F0003-22	ELB-27 0.5-1	06/03/13
13F0003-24	ELB-28 0.5-1	06/03/13
13F0003-25	ELB-29 0.5-1	06/03/13
13F0003-27	ELB-30 0.5-1	06/03/13
13F0003-28	HA-1A 1.5-2	06/03/13
13F0003-30	HA-2A 1.5-2	06/03/13
13F0003-31	ELB-31 0.5-1	06/03/13
13F0003-33	DUP	06/03/13

Batch ID: BF30038

Preparation Method: EPA SW 846-1312 SPLP for Extr. for

Prepared By: KK

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-01	HA-6 1.5-2	06/03/13
13F0003-02	ELB-15 0.5-1	06/03/13
13F0003-04	ELB-16 0.5-1	06/03/13
13F0003-06	HA-7A 1.0-1.5	06/03/13
13F0003-07	ELB-17 0.5-1	06/03/13
13F0003-09	ELB-18 0.5-1	06/03/13
13F0003-11	ELB-19 0.5-1	06/03/13
13F0003-13	ELB-20 0.5-1	06/03/13
13F0003-14	ELB-21 0.5-1	06/03/13
13F0003-15	ELB-22 0.5-1	06/03/13
13F0003-17	HA-17A 1.5-2	06/03/13
13F0003-18	HA-16A 1.5-2	06/03/13
13F0003-19	HA-15A 1.5-2	06/03/13
13F0003-20	ELB-25A 0.5-1	06/03/13
13F0003-21	ELB-26 0.5-1	06/03/13



13F0003-22	ELB-27 0.5-1	06/03/13
13F0003-24	ELB-28 0.5-1	06/03/13
13F0003-25	ELB-29 0.5-1	06/03/13
13F0003-27	ELB-30 0.5-1	06/03/13
13F0003-28	HA-1A 1.5-2	06/03/13
BF30038-BLK2	Blank	06/03/13

Batch ID: BF30039 **Preparation Method:** EPA SW 846-1312 SPLP for Extr. for **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-30	HA-2A 1.5-2	06/03/13
13F0003-31	ELB-31 0.5-1	06/03/13
13F0003-33	DUP	06/03/13
BF30039-BLK1	Blank	06/03/13

Batch ID: BF30050 **Preparation Method:** EPA 3050B **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-01	HA-6 1.5-2	06/03/13
13F0003-02	ELB-15 0.5-1	06/03/13
13F0003-04	ELB-16 0.5-1	06/03/13
13F0003-06	HA-7A 1.0-1.5	06/03/13
13F0003-07	ELB-17 0.5-1	06/03/13
13F0003-09	ELB-18 0.5-1	06/03/13
13F0003-11	ELB-19 0.5-1	06/03/13
13F0003-13	ELB-20 0.5-1	06/03/13
13F0003-14	ELB-21 0.5-1	06/03/13
13F0003-15	ELB-22 0.5-1	06/03/13
13F0003-17	HA-17A 1.5-2	06/03/13
13F0003-18	HA-16A 1.5-2	06/03/13
13F0003-19	HA-15A 1.5-2	06/03/13
13F0003-20	ELB-25A 0.5-1	06/03/13
13F0003-21	ELB-26 0.5-1	06/03/13
13F0003-22	ELB-27 0.5-1	06/03/13
13F0003-24	ELB-28 0.5-1	06/03/13
13F0003-25	ELB-29 0.5-1	06/03/13
13F0003-27	ELB-30 0.5-1	06/03/13
13F0003-28	HA-1A 1.5-2	06/03/13
BF30050-BLK1	Blank	06/03/13
BF30050-DUP1	Duplicate	06/03/13
BF30050-MS1	Matrix Spike	06/03/13
BF30050-SRM1	Reference	06/03/13

Batch ID: BF30051 **Preparation Method:** EPA 3050B **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-30	HA-2A 1.5-2	06/03/13
13F0003-31	ELB-31 0.5-1	06/03/13
13F0003-33	DUP	06/03/13
BF30051-BLK1	Blank	06/03/13
BF30051-SRM1	Reference	06/03/13



Batch ID: BF30150

Preparation Method: EPA 3010A

Prepared By: MW

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-01	HA-6 1.5-2	06/04/13
13F0003-02	ELB-15 0.5-1	06/04/13
13F0003-04	ELB-16 0.5-1	06/04/13
13F0003-06	HA-7A 1.0-1.5	06/04/13
13F0003-07	ELB-17 0.5-1	06/04/13
13F0003-09	ELB-18 0.5-1	06/04/13
13F0003-11	ELB-19 0.5-1	06/04/13
13F0003-13	ELB-20 0.5-1	06/04/13
13F0003-14	ELB-21 0.5-1	06/04/13
13F0003-15	ELB-22 0.5-1	06/04/13
13F0003-17	HA-17A 1.5-2	06/04/13
13F0003-18	HA-16A 1.5-2	06/04/13
13F0003-19	HA-15A 1.5-2	06/04/13
13F0003-20	ELB-25A 0.5-1	06/04/13
13F0003-21	ELB-26 0.5-1	06/04/13
13F0003-22	ELB-27 0.5-1	06/04/13
13F0003-24	ELB-28 0.5-1	06/04/13
13F0003-25	ELB-29 0.5-1	06/04/13
13F0003-27	ELB-30 0.5-1	06/04/13
13F0003-28	HA-1A 1.5-2	06/04/13
BF30150-BLK1	Blank	06/04/13
BF30150-BLK2	Blank	06/04/13
BF30150-DUP1	Duplicate	06/04/13
BF30150-MS1	Matrix Spike	06/04/13
BF30150-SRM1	Reference	06/04/13

Batch ID: BF30151

Preparation Method: EPA 3010A

Prepared By: MW

YORK Sample ID	Client Sample ID	Preparation Date
13F0003-30	HA-2A 1.5-2	06/04/13
13F0003-31	ELB-31 0.5-1	06/04/13
13F0003-33	DUP	06/04/13
BF30151-BLK1	Blank	06/04/13
BF30151-BLK2	Blank	06/04/13
BF30151-SRM1	Reference	06/04/13



SPLP Extraction by EPA SW-846 1312 - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF30038 - EPA SW 846-1312 SPLP for Extr. for Metals

Blank (BF30038-BLK2)

Prepared: 06/03/2013 Analyzed: 06/04/2013

SPLP Extraction	Completed	1.00	N/A
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Batch BF30039 - EPA SW 846-1312 SPLP for Extr. for Metals

Blank (BF30039-BLK1)

Prepared: 06/03/2013 Analyzed: 06/04/2013

SPLP Extraction	Completed	1.00	N/A
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Metals by EPA 6000 Series Methods - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30050 - EPA 3050B											
Blank (BF30050-BLK1)										Prepared & Analyzed: 06/03/2013	
Lead	ND	0.300	mg/kg wet								
Duplicate (BF30050-DUP1)										*Source sample: 13F0003-01 (HA-6 1.5-2) Prepared & Analyzed: 06/03/2013	
Lead	84.2	0.345	mg/kg dry		84.0				0.203	35	
Matrix Spike (BF30050-MS1)										*Source sample: 13F0003-01 (HA-6 1.5-2) Prepared & Analyzed: 06/03/2013	
Lead	140	0.345	mg/kg dry	57.5	84.0	97.4	75-125				
Reference (BF30050-SRM1)										Prepared & Analyzed: 06/03/2013	
Lead	83.0	0.300	mg/kg wet	91.7		90.5	70.2-130				
Batch BF30051 - EPA 3050B											
Blank (BF30051-BLK1)										Prepared & Analyzed: 06/03/2013	
Lead	ND	0.300	mg/kg wet								
Reference (BF30051-SRM1)										Prepared & Analyzed: 06/03/2013	
Lead	82.6	0.300	mg/kg wet	91.7		90.0	70.2-130				



SPLP Metals by EPA SW846-1312/6010B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30150 - EPA 3010A											
Blank (BF30150-BLK1)											
										Prepared & Analyzed: 06/04/2013	
Lead	ND	0.00300	mg/L								
Blank (BF30150-BLK2)											
										Prepared: 06/04/2013 Analyzed: 06/05/2013	
Lead	ND	0.00300	mg/L								
Duplicate (BF30150-DUP1)											
*Source sample: 13F0003-01 (HA-6 1.5-2)										Prepared & Analyzed: 06/04/2013	
Lead	0.0359	0.00300	mg/L		0.0364				1.34	20	
Matrix Spike (BF30150-MS1)											
*Source sample: 13F0003-01 (HA-6 1.5-2)										Prepared & Analyzed: 06/04/2013	
Lead	0.571	0.00300	mg/L	0.500	0.0364	107	75-125				
Reference (BF30150-SRM1)											
										Prepared & Analyzed: 06/04/2013	
Lead	1.49	0.00300	mg/L	1.48		100	87.8-111				
Batch BF30151 - EPA 3010A											
Blank (BF30151-BLK1)											
										Prepared: 06/04/2013 Analyzed: 06/05/2013	
Lead	ND	0.00300	mg/L								
Blank (BF30151-BLK2)											
										Prepared: 06/04/2013 Analyzed: 06/05/2013	
Lead	ND	0.00300	mg/L								
Reference (BF30151-SRM1)											
										Prepared: 06/04/2013 Analyzed: 06/05/2013	
Lead	1.48	0.00300	mg/L	1.48		100	87.8-111				



Notes and Definitions

EXT-COMP Completed

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.

For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.

YORK

ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page 2 of 4

York Project No. 13F0003

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

YOUR Information Company: <u>Langan Engineering</u> Address: <u>555 Longwharf Dr</u> <u>New Haven, CT</u> Phone No: <u>203-562-5771</u> Contact Person: <u>Kathleen Blessing</u> E-Mail Address: <u>kbl@langan.com</u>		Report To: Company: <u>same</u> Address: _____ Phone No: _____ Attention: _____ E-Mail Address: _____		Invoice To: Company: <u>same</u> Address: _____ Phone No: _____ Attention: _____ E-Mail Address: _____		YOUR Project ID <u>140068605</u> Purchase Order No. _____		Turn-Around Time RUSH - Same Day RUSH - Next Day RUSH - Two Day RUSH - Three Day <input checked="" type="checkbox"/> RUSH - Four Day Standard (5-7 Days)		Report Type/Deliverables Summary Report Summary w/ QA Summary CT RCP Package <input checked="" type="checkbox"/> NY ASP A Package NY ASP B Package <i>Electronic Deliverables:</i> EDD (Specify Type) <u>PDF & XLS</u> Excel <u>DATA SPREADSHEET</u>	
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Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature) Kyle Zalaski
 Name (printed) Kyle Zalaski

Matrix Codes	Volatiles	Semi-Volatiles	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters	Special Instructions
S - soil Other - specify in detail WW - wastewater GW - groundwater DAW - drinking water Air-A - ambient air Air-SV - soil vapor	8260 full HCS Site Spec. Nassau Co. Suffolk Co.	8270 or 625 S082PCB S081PEST S15 Herb CT RCP Acids Only PAH list App. IX Site Spec. SPLP or UCLP TCLP list TCLP list 5242 Arom. only 502.2 Halog. only NJDEP list App. IX SPLP or TCLP S021B list	RCRA8 PPL3 list TAL CT EPHI NY 310-13 PH 1664 Air TO14A Air TO15 Air S1ARS Air VPH Air HCS Mediane Helium	PH GRO PH DR0 TCL Organics TAL MetCN Full TCLP Full App. IX Part 304/404 Part 304/404 Part 304/404 Part 304/404 NYCDEP NYSDDEC TAGM	Color Phenols Cyanide-T Cyanide-A BOD5 Chloride Phosphate Tot. Phos. Oil & Grease ISS Total Solids IDS MPAS	Field Filtered Lab to Filter	

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)	Temperature on Receipt
ELB-19 0.5-1	9/30/13 10:27	S	Total Lead, SPLP Lead	1.4oz glass	4.0 °C
ELB-19 1.5-2	10:29	*			
ELB-20 0.5-1	10:35	*			
ELB-21 0.5-1	10:38				
ELB-22 0.5-1	11:04				
ELB-22 1.5-2	11:06				
HA-17A 1.5-2	11:10				
HA-16A 1.5-2	11:20				
HA-15A 1.5-2	12:28				
ELB-25 0.5-1	12:35				

Preservation: 4°C _____ Frozen _____ HCl _____ MeOH _____ NaOH _____
 Check those Applicable: ZnAc _____ Ascorbic Acid _____ Other _____

Comments: RLs must meet CTDEEP RSRs
* = HOLD Analyses until authorized by Langan

Samples Relinquished By: [Signature] Date/Time: 5/31 6:20
 Samples Received By: [Signature] Date/Time: 5-31-13 1800

ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

York Project No. 13F0003

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

YOUR Information		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type/Deliverables	
Company: <u>Langan Engineering</u>		Company: <u>Same</u>		Company: <u>Same</u>		140068605		RUSH - Same Day		Summary Report	
Address: <u>555 Long Wharf Dr.</u>		Address:		Address:		Purchase Order No.		RUSH - Next Day		Summary w/ QA Summary	
Phone No. <u>203-562-5771</u>		Phone No.		Phone No.				RUSH - Two Day		CT RCP Package <input checked="" type="checkbox"/>	
Attention: <u>Kathleen Blessing</u>		Attention:		Attention:				RUSH - Three Day		NY ASP A Package	
E-Mail Address: <u>Kblessing@langan.com</u>		E-Mail Address:		E-Mail Address:				RUSH - Four Day		NY ASP B Package	
								Standard (5-7 Days)		Electronic Deliverables:	
										EDD (Specify Type) <u>pdf excel</u>	
										Excel <u>DGA Spreadsheet</u>	

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zaleski
Samples Collected/Authorized By (Signature)

Kyle Zaleski
Name (printed)

Matrix Codes	Semi-Vols. 8270 or 625	Presorb/Herb	Metals	Misc. Org.	Full Lists	Common Miscellaneous Parameters	Special Instructions
S - soil	STARS list	808/PCB	RCRAS	TPH GRO	Pst Poll.	Nitrate	Color
Other - specify (oil, etc)	Site Spec.	815/Herb	PP13 list	TPH DRG	TCL Organics	Nitrite	Phenols
WW - wastewater	Nassau Co.	CT RCP	JAL	CT EIPH	LAL/MACN	TKN	Cyanide-I
GW - groundwater	Suffolk Co.	Acids Only	CT15 list	NY 316-13	Foil TCLP	Fluoride	Cyanide-A
DW - drinking water	MTBE	PAH list	TAGM list	TPH 1664	Full App. IX	Ammonia-N	BOD5
Air-A - ambient air	TCL list	Site Spec.	NIDEP list	Air 1014A	Part 360/400	Chloride	CBOD5
Air-SV - soil vapor	TAGM list	CT RCP list	Total	Air 1015	Part 360/400	Phosphate	BOD28
	CT RCP list	TCL Pst	Dissolved	Air STARS	Part 360/400	Oil/Grease	COD
	Arom. only	TCL Pst Herb	SPLP or TCLP	Air VPH	Part 360/400	FOG	Local Solids
	Halog. only	Chlordane	Leads	Air TICs	NYSDJPCSW	pH	IDS
	App. IX list	608 Pst	UST/BSW	Mediane	NYSDJCSA	MBAS	TPH 1664
	SPLP or TCLP	608 PCB	Helium				

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-26 0.5-1	5/30/13 12:40	S	Total Lead, SPLP Lead	1.0oz glass
ELB-27 0.5-1	12:50	*		
ELB-27 1.5-2	12:52	*		
ELB-28 0.5-1	12:55	*		
ELB-29 0.5-1	13:13	*		
ELB-29 1.5-2	13:15	*		
ELB-30 0.5-1	13:30	*		
HA-1A 1.5-2	13:45	*		
FLB-28 1.5-2	13:50	*		
A-2A 1.5-2	14:22	*		

Temperature on Receipt 40.0 °C

4°C _____ Frozen _____ HCl _____ HNO₃ _____ MeOH _____ NaOH _____
ZnAc _____ Ascorbic Acid _____ Other _____

Preservation: Check those Applicable

Samples Relinquished By [Signature] Date/Time 5/31/13 6:30

Samples Received By [Signature] Date/Time 5-31-13 1800

Samples Relinquished By _____ Date/Time _____

Samples Received in LAB by _____ Date/Time _____

Comments: LS must meet CTDEEP RSRs
* = HOLD Analyses until authorized by Langan

YORK

ANALYTICAL LABORATORIES, INC.
120 RESEARCH DR. STRATFORD, CT 06615
(203) 325-1371 FAX (203) 357-0166

Field Chain-of-Custody Record

Page 4 of 4

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

York Project No. 13F003

YOUR Information Company: <u>Langan Engineering</u> Address: <u>555 Lang Street Dr.</u> <u>New Haven, CT</u> Phone No: <u>203-562-5771</u> Contact Person: <u>Kathleen Bressing</u> E-Mail Address: <u>kbrassing@langan.com</u>		Report To: Company: <u>Same</u> Address: _____ Phone No: _____ Attention: _____ E-Mail Address: _____		Invoice To: Company: <u>Same</u> Address: _____ Phone No: _____ Attention: _____ E-Mail Address: _____		YOUR Project ID Misc. Org: _____ Full Lists: _____ Turn-Around Time: _____ Report Type/Deliverables: _____	
YOUR Information Company: <u>Langan Engineering</u> Address: <u>555 Lang Street Dr.</u> <u>New Haven, CT</u> Phone No: <u>203-562-5771</u> Contact Person: <u>Kathleen Bressing</u> E-Mail Address: <u>kbrassing@langan.com</u>		Report To: Company: <u>Same</u> Address: _____ Phone No: _____ Attention: _____ E-Mail Address: _____		Invoice To: Company: <u>Same</u> Address: _____ Phone No: _____ Attention: _____ E-Mail Address: _____		YOUR Project ID Misc. Org: _____ Full Lists: _____ Turn-Around Time: _____ Report Type/Deliverables: _____	

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Matrix Codes:
 S - soil
 Other - specify oil, gas
 WW - wastewater
 GW - groundwater
 DW - drinking water
 Air-A - ambient air
 Air-SV - soil vapor

Company: Kyle Zalaski
 Address: _____
 Phone No: _____
 Attention: _____
 E-Mail Address: _____

Samples collected/Authorized By (Signature):
Kyle Zalaski
 Name (printed): Kyle Zalaski

Sample Identification	Date Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-31 0.5-1	5/6/13 1A:15	S	Total Lead, SPLP Lead	1oz glass
ELB-31 1.5-2	1A:18	S		
DUP	00:00	S		

Comments: PLs must meet CTDEEP RSR-5 analyses
* = HOLD until authorized by Langan

Preservation: _____
 Check those Applicable: _____

Temperature on Receipt: 4.0 °C

Samples Relinquished By: [Signature] Date/Time: 5/31/13 1800
 Samples Received By: [Signature] Date/Time: 5-31-13 1800

Samples Relinquished By: _____ Date/Time: _____
 Samples Received in LAB by: _____ Date/Time: _____



Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive

New Haven CT, 06511

Attention: Kathleen Blessing

Report Date: 06/06/2013

Client Project ID: 140068605

York Project (SDG) No.: 13F0008

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 06/06/2013
Client Project ID: 140068605
York Project (SDG) No.: 13F0008

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kathleen Blessing

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 31, 2013 and listed below. The project was identified as your project: **140068605**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
13F0008-01	ELB-23 0.5-1	Soil	05/31/2013	05/31/2013
13F0008-03	HA-4A 1.5-2	Soil	05/31/2013	05/31/2013
13F0008-04	HA-5A 1.5-2	Soil	05/31/2013	05/31/2013
13F0008-05	ELB-32 0.5-1	Soil	05/31/2013	05/31/2013
13F0008-07	ELB-33 0.5-1	Soil	05/31/2013	05/31/2013
13F0008-08	ELB-34 0.25-0.5	Soil	05/31/2013	05/31/2013
13F0008-09	ELB-35 0.25-0.5	Soil	05/31/2013	05/31/2013
13F0008-10	ELB-36 0.25-0.5	Soil	05/31/2013	05/31/2013
13F0008-11	ELB-37 0.25-0.5	Soil	05/31/2013	05/31/2013
13F0008-12	DUP-2	Soil	05/31/2013	05/31/2013
13F0008-13	Trip Blank	Water	05/30/2013	05/31/2013

General Notes for York Project (SDG) No.: 13F0008

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 06/06/2013

YORK



Sample Information

Client Sample ID: ELB-23 0.5-1

York Sample ID: 13F0008-01

York Project (SDG) No. 13F0008 Client Project ID 140068605 Matrix Soil Collection Date/Time May 31, 2013 7:30 am Date Received 05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: SPLP Extraction, Completed, N/A, 1.00, 1.00, 1, EPA SW846-1312, 06/03/2013 16:30, 06/04/2013 15:07, KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7439-92-1, Lead, 36.5, mg/kg dry, 0.197, 0.348, 1, EPA SW846-6010B, 06/03/2013 13:07, 06/03/2013 21:01, AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7439-92-1, Lead, 0.00959, mg/L, 0.00220, 0.00300, 1, EPA SW846-6010B, 06/04/2013 15:47, 06/05/2013 02:46, MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: solids, % Solids, 86.2, %, 0.100, 0.100, 1, SM 2540G, 06/03/2013 11:29, 06/04/2013 12:37, AMC

Sample Information

Client Sample ID: HA-4A 1.5-2

York Sample ID: 13F0008-03

York Project (SDG) No. 13F0008 Client Project ID 140068605 Matrix Soil Collection Date/Time May 31, 2013 8:00 am Date Received 05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: SPLP Extraction, Completed, N/A, 1.00, 1.00, 1, EPA SW846-1312, 06/03/2013 16:30, 06/04/2013 15:07, KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7439-92-1, Lead, 50.9, mg/kg dry, 0.197, 0.348, 1, EPA SW846-6010B, 06/03/2013 13:07, 06/03/2013 21:06, AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, MDL, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7439-92-1, Lead, 0.0230, mg/L, 0.00220, 0.00300, 1, EPA SW846-6010B, 06/04/2013 15:47, 06/05/2013 02:51, MW



Sample Information

Client Sample ID: HA-4A 1.5-2 **York Sample ID:** 13F0008-03
York Project (SDG) No.: 13F0008 **Client Project ID:** 140068605 **Matrix:** Soil **Collection Date/Time:** May 31, 2013 8:00 am **Date Received:** 05/31/2013

Total Solids

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	86.3		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: HA-5A 1.5-2 **York Sample ID:** 13F0008-04
York Project (SDG) No.: 13F0008 **Client Project ID:** 140068605 **Matrix:** Soil **Collection Date/Time:** May 31, 2013 8:05 am **Date Received:** 05/31/2013

SPLP Extraction for METALS EPA 1312

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Log-in Notes:

Sample Notes:

Lead by EPA 6010

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	131		mg/kg dry	0.209	0.369	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:11	AMC

Log-in Notes:

Sample Notes:

Lead, SPLP by EPA 6010

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0775		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 02:56	MW

Log-in Notes:

Sample Notes:

Total Solids

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	81.3		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: ELB-32 0.5-1 **York Sample ID:** 13F0008-05
York Project (SDG) No.: 13F0008 **Client Project ID:** 140068605 **Matrix:** Soil **Collection Date/Time:** May 31, 2013 8:20 am **Date Received:** 05/31/2013

SPLP Extraction for METALS EPA 1312

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: ELB-32 0.5-1

York Sample ID: 13F0008-05

<u>York Project (SDG) No.</u> 13F0008	<u>Client Project ID</u> 140068605	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 31, 2013 8:20 am	<u>Date Received</u> 05/31/2013
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Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	528		mg/kg dry	0.197	0.348	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:16	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0960		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:01	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	86.3		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: ELB-33 0.5-1

York Sample ID: 13F0008-07

<u>York Project (SDG) No.</u> 13F0008	<u>Client Project ID</u> 140068605	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 31, 2013 8:35 am	<u>Date Received</u> 05/31/2013
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SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	497		mg/kg dry	0.202	0.356	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:20	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.124		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:06	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	84.3		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC



Sample Information

Client Sample ID: ELB-34 0.25-0.5

York Sample ID: 13F0008-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13F0008

140068605

Soil

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05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.9	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.35	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.7	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.90	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	1.5	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.9	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.8	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	1.5	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.7	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	1.2	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	1.2	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1.6	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	1.8	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.0	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
78-93-3	2-Butanone	ND		ug/kg dry	2.4	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
95-49-8	2-Chlorotoluene	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
591-78-6	2-Hexanone	ND		ug/kg dry	1.9	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
106-43-4	4-Chlorotoluene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	1.7	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
67-64-1	Acetone	ND		ug/kg dry	18	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.2	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
71-43-2	Benzene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
108-86-1	Bromobenzene	ND		ug/kg dry	1.8	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK



Sample Information

Client Sample ID: ELB-34 0.25-0.5

York Sample ID: 13F0008-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

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Soil

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05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.0	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-25-2	Bromoform	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
74-83-9	Bromomethane	ND		ug/kg dry	3.0	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	0.99	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-00-3	Chloroethane	ND		ug/kg dry	1.5	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
67-66-3	Chloroform	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
74-87-3	Chloromethane	ND		ug/kg dry	1.5	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.80	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	1.6	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
74-95-3	Dibromomethane	ND		ug/kg dry	1.7	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.80	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.9	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
80-62-6	Methyl Methacrylate	ND		ug/kg dry	2.2	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	1.0	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-09-2	Methylene chloride	ND		ug/kg dry	2.5	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
91-20-3	Naphthalene	ND		ug/kg dry	3.0	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	1.2	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
95-47-6	o-Xylene	ND		ug/kg dry	1.0	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	2.6	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.84	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
100-42-5	Styrene	ND		ug/kg dry	0.91	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1.3	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	1.5	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
109-99-9	Tetrahydrofuran	ND		ug/kg dry	4.0	27	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
108-88-3	Toluene	ND		ug/kg dry	1.1	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK



Sample Information

Client Sample ID: ELB-34 0.25-0.5

York Sample ID: 13F0008-08

York Project (SDG) No.

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Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.5	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	1.4	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.97	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.75	14	1	SW8260B	06/04/2013 10:19	06/04/2013 11:43	BK
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	104 %			70-130						
460-00-4	Surrogate: p-Bromofluorobenzene	100 %			70-130						
2037-26-5	Surrogate: Toluene-d8	103 %			70-130						

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
62-53-3	Aniline	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
120-12-7	Anthracene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
205-99-2	Benzo(b)fluoranthene	1910		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
218-01-9	Chrysene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR



Sample Information

Client Sample ID: ELB-34 0.25-0.5

York Sample ID: 13F0008-08

York Project (SDG) No.

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Soil

May 31, 2013 10:00 am

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Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	3430	3430	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	3430	3430	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
206-44-0	Fluoranthene	2170		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
86-73-7	Fluorene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
78-59-1	Isophorone	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
91-20-3	Naphthalene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR



Sample Information

Client Sample ID: ELB-34 0.25-0.5

York Sample ID: 13F0008-08

<u>York Project (SDG) No.</u> 13F0008	<u>Client Project ID</u> 140068605	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 31, 2013 10:00 am	<u>Date Received</u> 05/31/2013
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Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-02-7	4-Nitrophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
85-01-8	Phenanthrene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
108-95-2	Phenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
129-00-0	Pyrene	2240		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
110-86-1	Pyridine	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	1720	1720	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:35	SR

Surrogate Recoveries

Result

Acceptance Range

5175-83-7	Surrogate: 2,4,6-Tribromophenol	78.2 %							15-110
321-60-8	Surrogate: 2-Fluorobiphenyl	72.1 %							30-130
367-12-4	Surrogate: 2-Fluorophenol	55.5 %							15-110
4165-60-0	Surrogate: Nitrobenzene-d5	59.6 %							30-130
4165-62-2	Surrogate: Phenol-d5	57.3 %							15-110
1718-51-0	Surrogate: Terphenyl-d14	96.6 %							30-130

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbons)	204		mg/kg dry	2.92	13.7	1	CT DEP ETPH	06/03/2013 11:53	06/04/2013 12:55	JW
	Surrogate Recoveries	Result									
3386-33-2	Surrogate: 1-Chlorooctadecane	94.7 %									40.5-152

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK



Sample Information

Client Sample ID: ELB-34 0.25-0.5

York Sample ID: 13F0008-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13F0008

140068605

Soil

May 31, 2013 10:00 am

05/31/2013

Metals, RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	2.75		mg/kg dry	0.467	1.37	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7440-39-3	Barium	99.4		mg/kg dry	0.178	0.686	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7440-43-9	Cadmium	ND		mg/kg dry	0.137	0.686	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7440-47-3	Chromium	34.2		mg/kg dry	0.165	0.686	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7439-92-1	Lead	309		mg/kg dry	0.233	0.412	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7782-49-2	Selenium	1.04		mg/kg dry	0.686	0.686	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC
7440-22-4	Silver	ND		mg/kg dry	0.137	0.686	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:25	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0280		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:11	MW

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0453	0.0453	1	EPA SW846-7471	06/03/2013 08:52	06/03/2013 17:43	AA

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	72.8		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: ELB-35 0.25-0.5

York Sample ID: 13F0008-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13F0008

140068605

Soil

May 31, 2013 9:20 am

05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.7	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.32	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.5	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.82	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.9	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK



Sample Information

Client Sample ID: ELB-35 0.25-0.5

York Sample ID: 13F0008-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13F0008

140068605

Soil

May 31, 2013 9:20 am

05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	1.3	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.8	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.7	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	1.4	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	3.4	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.99	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	1.1	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	1.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	1.1	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1.4	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	1.6	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.8	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
78-93-3	2-Butanone	ND		ug/kg dry	2.2	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
95-49-8	2-Chlorotoluene	ND		ug/kg dry	1.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
591-78-6	2-Hexanone	ND		ug/kg dry	1.7	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
106-43-4	4-Chlorotoluene	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	1.6	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
67-64-1	Acetone	240		ug/kg dry	17	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	2.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
71-43-2	Benzene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
108-86-1	Bromobenzene	ND		ug/kg dry	1.6	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	0.98	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.9	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-25-2	Bromoform	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
74-83-9	Bromomethane	ND		ug/kg dry	2.8	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	0.91	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK



Sample Information

Client Sample ID: ELB-35 0.25-0.5

York Sample ID: 13F0008-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13F0008

140068605

Soil

May 31, 2013 9:20 am

05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-00-3	Chloroethane	ND		ug/kg dry	1.4	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
67-66-3	Chloroform	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
74-87-3	Chloromethane	ND		ug/kg dry	1.4	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.73	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	1.1	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	1.4	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
74-95-3	Dibromomethane	ND		ug/kg dry	1.6	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.1	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.73	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.7	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
80-62-6	Methyl Methacrylate	ND		ug/kg dry	2.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.92	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-09-2	Methylene chloride	ND		ug/kg dry	2.3	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
91-20-3	Naphthalene	ND		ug/kg dry	2.7	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	1.1	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	1.0	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
95-47-6	o-Xylene	ND		ug/kg dry	0.92	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	2.3	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.77	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
100-42-5	Styrene	ND		ug/kg dry	0.83	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
109-99-9	Tetrahydrofuran	ND		ug/kg dry	3.6	25	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
108-88-3	Toluene	ND		ug/kg dry	0.97	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	1.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.3	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	1.2	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.89	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK



Sample Information

Client Sample ID: ELB-35 0.25-0.5

York Sample ID: 13F0008-09

York Project (SDG) No.

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Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.68	13	1	SW8260B	06/04/2013 10:19	06/04/2013 12:19	BK
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	109 %	70-130								
460-00-4	Surrogate: p-Bromofluorobenzene	99.5 %	70-130								
2037-26-5	Surrogate: Toluene-d8	101 %	70-130								

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
62-53-3	Aniline	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
120-12-7	Anthracene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
56-55-3	Benzo(a)anthracene	3580		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
50-32-8	Benzo(a)pyrene	3540		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
205-99-2	Benzo(b)fluoranthene	6420		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
207-08-9	Benzo(k)fluoranthene	3980		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
218-01-9	Chrysene	4120		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR



Sample Information

Client Sample ID: ELB-35 0.25-0.5

York Sample ID: 13F0008-09

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Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
84-66-2	Diethyl phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	4390	4390	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	4390	4390	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
206-44-0	Fluoranthene	9790		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
86-73-7	Fluorene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
78-59-1	Isophorone	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
91-20-3	Naphthalene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR



Sample Information

Client Sample ID: ELB-35 0.25-0.5

York Sample ID: 13F0008-09

<u>York Project (SDG) No.</u> 13F0008	<u>Client Project ID</u> 140068605	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 31, 2013 9:20 am	<u>Date Received</u> 05/31/2013
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Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	6400		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
108-95-2	Phenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
129-00-0	Pyrene	10200		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
110-86-1	Pyridine	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	2190	2190	5	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:02	SR
Surrogate Recoveries		Result			Acceptance Range						
5175-83-7	Surrogate: 2,4,6-Tribromophenol	74.7 %			15-110						
321-60-8	Surrogate: 2-Fluorobiphenyl	65.9 %			30-130						
367-12-4	Surrogate: 2-Fluorophenol	54.1 %			15-110						
4165-60-0	Surrogate: Nitrobenzene-d5	50.9 %			30-130						
4165-62-2	Surrogate: Phenol-d5	48.9 %			15-110						
1718-51-0	Surrogate: Terphenyl-d14	92.4 %			30-130						

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbons)	592		mg/kg dry	3.74	17.6	1	CT DEP ETPH	06/03/2013 11:53	06/04/2013 12:55	JW
Surrogate Recoveries		Result			Acceptance Range						
3386-33-2	Surrogate: 1-Chlorooctadecane	90.7 %			40.5-152						

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Metals, RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	5.50		mg/kg dry	0.597	1.76	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC
7440-39-3	Barium	615		mg/kg dry	0.228	0.878	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC
7440-43-9	Cadmium	ND		mg/kg dry	0.176	0.878	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC
7440-47-3	Chromium	43.1		mg/kg dry	0.211	0.878	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC
7439-92-1	Lead	1780		mg/kg dry	0.298	0.527	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC
7782-49-2	Selenium	2.11		mg/kg dry	0.878	0.878	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC



Sample Information

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Metals, RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		mg/kg dry	0.176	0.878	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:30	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.111		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:16	MW

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0579	0.0579	1	EPA SW846-7471	06/03/2013 08:52	06/03/2013 17:43	AA

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	57.0		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: ELB-36 0.25-0.5

York Sample ID: 13F0008-10

York Project (SDG) No.

Client Project ID

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Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	0.97	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.18	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.4	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.46	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.1	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.70	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.57	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.64	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.74	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	0.99	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS



Sample Information

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Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	0.94	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.76	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.9	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.55	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.60	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.70	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.56	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.62	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.81	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.90	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.0	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.65	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
78-93-3	2-Butanone	ND		ug/kg dry	1.2	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.56	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
591-78-6	2-Hexanone	ND		ug/kg dry	0.97	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.71	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.87	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
67-64-1	Acetone	24		ug/kg dry	9.2	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	1.1	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
71-43-2	Benzene	ND		ug/kg dry	0.69	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
108-86-1	Bromobenzene	ND		ug/kg dry	0.91	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	0.55	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.0	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-25-2	Bromoform	ND		ug/kg dry	0.66	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.6	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	0.51	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.68	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	0.68	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-00-3	Chloroethane	ND		ug/kg dry	0.78	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
67-66-3	Chloroform	ND		ug/kg dry	0.70	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
74-87-3	Chloromethane	ND		ug/kg dry	0.77	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.41	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS



Sample Information

Client Sample ID: ELB-36 0.25-0.5

York Sample ID: 13F0008-10

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Soil

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Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.64	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.81	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
74-95-3	Dibromomethane	ND		ug/kg dry	0.88	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.64	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.41	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	0.95	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.74	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
80-62-6	Methyl Methacrylate	ND		ug/kg dry	1.1	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.51	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-09-2	Methylene chloride	ND		ug/kg dry	1.3	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.5	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.61	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.58	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
95-47-6	o-Xylene	ND		ug/kg dry	0.51	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	1.3	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.43	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.65	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
100-42-5	Styrene	ND		ug/kg dry	0.46	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.65	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.75	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
109-99-9	Tetrahydrofuran	ND		ug/kg dry	2.0	14	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
108-88-3	Toluene	ND		ug/kg dry	0.54	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.73	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.72	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	1.3	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	0.69	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.49	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.38	7.0	1	SW8260B	06/03/2013 11:22	06/04/2013 02:31	SS

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: 1,2-Dichloroethane-d4	98.9 %	70-130
460-00-4	Surrogate: p-Bromofluorobenzene	104 %	70-130
2037-26-5	Surrogate: Toluene-d8	107 %	70-130



Sample Information

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Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
62-53-3	Aniline	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
120-12-7	Anthracene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
50-32-8	Benzo(a)pyrene	379		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
205-99-2	Benzo(b)fluoranthene	487		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
207-08-9	Benzo(k)fluoranthene	431		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
218-01-9	Chrysene	383		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	716	716	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	716	716	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR



Sample Information

Client Sample ID: ELB-36 0.25-0.5

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Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
206-44-0	Fluoranthene	820		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
86-73-7	Fluorene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
78-59-1	Isophorone	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
91-20-3	Naphthalene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
85-01-8	Phenanthrene	441		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
108-95-2	Phenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
129-00-0	Pyrene	759		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
110-86-1	Pyridine	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR



Sample Information

Client Sample ID: ELB-36 0.25-0.5

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Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	358	358	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 17:33	SR
Surrogate Recoveries		Result	Acceptance Range								
5175-83-7	Surrogate: 2,4,6-Tribromophenol	62.8 %	15-110								
321-60-8	Surrogate: 2-Fluorobiphenyl	48.5 %	30-130								
367-12-4	Surrogate: 2-Fluorophenol	50.6 %	15-110								
4165-60-0	Surrogate: Nitrobenzene-d5	45.5 %	30-130								
4165-62-2	Surrogate: Phenol-d5	51.4 %	15-110								
1718-51-0	Surrogate: Terphenyl-d14	70.5 %	30-130								

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbon)	32		mg/kg dry	3.05	14.3	1	CT DEP ETPH	06/03/2013 11:53	06/04/2013 12:55	JW
Surrogate Recoveries		Result	Acceptance Range								
3386-33-2	Surrogate: 1-Chlorooctadecane	100 %	40.5-152								

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Metals, RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	5.36		mg/kg dry	0.487	1.43	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7440-39-3	Barium	54.3		mg/kg dry	0.186	0.716	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7440-43-9	Cadmium	2.22		mg/kg dry	0.143	0.716	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7440-47-3	Chromium	24.4		mg/kg dry	0.172	0.716	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7439-92-1	Lead	494		mg/kg dry	0.243	0.429	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7782-49-2	Selenium	2.71		mg/kg dry	0.716	0.716	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC
7440-22-4	Silver	ND		mg/kg dry	0.143	0.716	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:38	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.131		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:21	MW



Sample Information

Client Sample ID: ELB-36 0.25-0.5

York Sample ID: 13F0008-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13F0008

140068605

Soil

May 31, 2013 9:40 am

05/31/2013

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0472	0.0472	1	EPA SW846-7471	06/03/2013 08:52	06/03/2013 17:43	AA

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	69.9		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: ELB-37 0.25-0.5

York Sample ID: 13F0008-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13F0008

140068605

Soil

May 31, 2013 9:35 am

05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.0	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	0.19	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.5	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	0.49	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.1	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	0.74	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	0.61	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	0.69	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	0.79	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.1	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.0	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	0.81	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.0	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	0.59	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	0.64	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	0.75	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	0.60	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	0.66	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK



Sample Information

Client Sample ID: ELB-37 0.25-0.5

York Sample ID: 13F0008-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13F0008

140068605

Soil

May 31, 2013 9:35 am

05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	0.86	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	0.95	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.1	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	0.70	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
78-93-3	2-Butanone	ND		ug/kg dry	1.3	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
95-49-8	2-Chlorotoluene	ND		ug/kg dry	0.60	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
591-78-6	2-Hexanone	ND		ug/kg dry	1.0	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
106-43-4	4-Chlorotoluene	ND		ug/kg dry	0.76	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	0.92	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
67-64-1	Acetone	21		ug/kg dry	9.8	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
107-13-1	Acrylonitrile	ND		ug/kg dry	1.2	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
71-43-2	Benzene	ND		ug/kg dry	0.73	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
108-86-1	Bromobenzene	ND		ug/kg dry	0.97	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
74-97-5	Bromochloromethane	ND		ug/kg dry	0.58	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.1	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-25-2	Bromoform	ND		ug/kg dry	0.70	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
74-83-9	Bromomethane	ND		ug/kg dry	1.7	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-15-0	Carbon disulfide	ND		ug/kg dry	0.54	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
56-23-5	Carbon tetrachloride	ND		ug/kg dry	0.73	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
108-90-7	Chlorobenzene	ND		ug/kg dry	0.73	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-00-3	Chloroethane	ND		ug/kg dry	0.83	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
67-66-3	Chloroform	ND		ug/kg dry	0.75	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
74-87-3	Chloromethane	ND		ug/kg dry	0.82	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	0.43	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	0.68	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
124-48-1	Dibromochloromethane	ND		ug/kg dry	0.86	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
74-95-3	Dibromomethane	ND		ug/kg dry	0.94	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	0.68	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
100-41-4	Ethyl Benzene	ND		ug/kg dry	0.43	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.0	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
98-82-8	Isopropylbenzene	ND		ug/kg dry	0.79	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
80-62-6	Methyl Methacrylate	ND		ug/kg dry	1.2	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK



Sample Information

Client Sample ID: ELB-37 0.25-0.5

York Sample ID: 13F0008-11

<u>York Project (SDG) No.</u> 13F0008	<u>Client Project ID</u> 140068605	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 31, 2013 9:35 am	<u>Date Received</u> 05/31/2013
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Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	0.55	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-09-2	Methylene chloride	ND		ug/kg dry	1.3	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
91-20-3	Naphthalene	ND		ug/kg dry	1.6	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
104-51-8	n-Butylbenzene	ND		ug/kg dry	0.65	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
103-65-1	n-Propylbenzene	ND		ug/kg dry	0.62	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
95-47-6	o-Xylene	ND		ug/kg dry	0.55	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	1.4	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	0.45	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
135-98-8	sec-Butylbenzene	ND		ug/kg dry	0.69	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
100-42-5	Styrene	ND		ug/kg dry	0.49	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
98-06-6	tert-Butylbenzene	ND		ug/kg dry	0.70	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
127-18-4	Tetrachloroethylene	ND		ug/kg dry	0.80	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
109-99-9	Tetrahydrofuran	ND		ug/kg dry	2.1	15	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
108-88-3	Toluene	ND		ug/kg dry	0.57	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	0.77	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	0.77	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	1.4	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
79-01-6	Trichloroethylene	ND		ug/kg dry	0.73	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	0.53	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
75-01-4	Vinyl Chloride	ND		ug/kg dry	0.41	7.4	1	SW8260B	06/04/2013 10:19	06/04/2013 11:08	BK
	Surrogate Recoveries	Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	100 %			70-130						
460-00-4	Surrogate: p-Bromofluorobenzene	94.7 %			70-130						
2037-26-5	Surrogate: Toluene-d8	97.8 %			70-130						

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
62-53-3	Aniline	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
120-12-7	Anthracene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR



Sample Information

Client Sample ID: ELB-37 0.25-0.5

York Sample ID: 13F0008-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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140068605

Soil

May 31, 2013 9:35 am

05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
218-01-9	Chrysene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	778	778	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	778	778	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
206-44-0	Fluoranthene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
86-73-7	Fluorene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR



Sample Information

Client Sample ID: ELB-37 0.25-0.5

York Sample ID: 13F0008-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13F0008

140068605

Soil

May 31, 2013 9:35 am

05/31/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
78-59-1	Isophorone	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
91-20-3	Naphthalene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
85-01-8	Phenanthrene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
108-95-2	Phenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
129-00-0	Pyrene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
110-86-1	Pyridine	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	389	389	1	EPA SW-846 8270C	06/03/2013 15:25	06/04/2013 18:04	SR

Surrogate Recoveries

Result

Acceptance Range

5175-83-7	Surrogate: 2,4,6-Tribromophenol	51.5 %	15-110
321-60-8	Surrogate: 2-Fluorobiphenyl	39.0 %	30-130
367-12-4	Surrogate: 2-Fluorophenol	39.9 %	15-110
4165-60-0	Surrogate: Nitrobenzene-d5	42.8 %	30-130
4165-62-2	Surrogate: Phenol-d5	51.8 %	15-110
1718-51-0	Surrogate: Terphenyl-d14	73.9 %	30-130



Sample Information

Client Sample ID: ELB-37 0.25-0.5

York Sample ID: 13F0008-11

<u>York Project (SDG) No.</u> 13F0008	<u>Client Project ID</u> 140068605	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 31, 2013 9:35 am	<u>Date Received</u> 05/31/2013
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Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	PH (Extractable Total Petroleum Hydrocarbons)	62.8		mg/kg dry	3.32	15.6	1	CT DEP ETPH	06/03/2013 11:53	06/04/2013 12:55	JW
	Surrogate Recoveries	Result			Acceptance Range						
3386-33-2	Surrogate: 1-Chlorooctadecane	96.8 %			40.5-152						

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Metals, RCRA

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	5.90		mg/kg dry	0.529	1.56	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7440-39-3	Barium	148		mg/kg dry	0.202	0.778	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7440-43-9	Cadmium	ND		mg/kg dry	0.156	0.778	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7440-47-3	Chromium	22.0		mg/kg dry	0.187	0.778	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7439-92-1	Lead	691		mg/kg dry	0.265	0.467	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7782-49-2	Selenium	1.68		mg/kg dry	0.778	0.778	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC
7440-22-4	Silver	ND		mg/kg dry	0.156	0.778	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 21:55	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0652		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:39	MW

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7471

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0514	0.0514	1	EPA SW846-7471	06/03/2013 08:52	06/03/2013 17:43	AA

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	64.2		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC



Sample Information

Client Sample ID: DUP-2

York Sample ID: 13F0008-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13F0008

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Soil

May 31, 2013 3:00 pm

05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1.00	1	EPA SW846-1312	06/03/2013 16:30	06/04/2013 15:07	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	336		mg/kg dry	0.235	0.414	1	EPA SW846-6010B	06/03/2013 13:07	06/03/2013 22:13	AMC

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0205		mg/L	0.00220	0.00300	1	EPA SW846-6010B	06/04/2013 15:47	06/05/2013 03:56	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	72.5		%	0.100	0.100	1	SM 2540G	06/03/2013 11:29	06/04/2013 12:37	AMC

Sample Information

Client Sample ID: Trip Blank

York Sample ID: 13F0008-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13F0008

140068605

Water

May 30, 2013 3:00 pm

05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.071	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.024	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.17	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
76-13-1	1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.074	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.070	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.044	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.044	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.11	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.12	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.17	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 13F0008-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13F0008

140068605

Water

May 30, 2013 3:00 pm

05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.11	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.46	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.15	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.071	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.12	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.051	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.059	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.12	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.048	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.096	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
78-93-3	2-Butanone	ND		ug/L	1.0	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.084	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
591-78-6	2-Hexanone	ND		ug/L	0.24	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.072	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.17	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
67-64-1	Acetone	ND		ug/L	0.90	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
107-13-1	Acrylonitrile	ND		ug/L	0.73	1.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
71-43-2	Benzene	ND		ug/L	0.044	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
108-86-1	Bromobenzene	ND		ug/L	0.081	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
74-97-5	Bromochloromethane	ND		ug/L	0.10	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.054	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-25-2	Bromoform	ND		ug/L	0.079	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-15-0	Carbon disulfide	ND		ug/L	0.065	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.085	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
108-90-7	Chlorobenzene	ND		ug/L	0.063	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-00-3	Chloroethane	ND		ug/L	0.090	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
67-66-3	Chloroform	ND		ug/L	0.079	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
74-87-3	Chloromethane	ND		ug/L	0.076	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.069	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS



Sample Information

Client Sample ID: Trip Blank

York Sample ID: 13F0008-13

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

13F0008

140068605

Water

May 30, 2013 3:00 pm

05/31/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	MDL	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.067	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.053	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
74-95-3	Dibromomethane	ND		ug/L	0.12	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.092	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.057	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.12	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.056	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.22	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.48	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-09-2	Methylene chloride	ND		ug/L	0.26	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
91-20-3	Naphthalene	ND		ug/L	0.090	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.083	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.068	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
95-47-6	o-Xylene	ND		ug/L	0.050	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.090	1.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.044	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
100-42-5	Styrene	ND		ug/L	0.043	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.050	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.070	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
109-99-9	Tetrahydrofuran	ND		ug/L	1.0	2.0	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
108-88-3	Toluene	ND		ug/L	0.042	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.085	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.060	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.092	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
79-01-6	Trichloroethylene	ND		ug/L	0.071	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.094	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.062	0.50	1	SW8260B	06/04/2013 08:45	06/05/2013 00:26	SS

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: 1,2-Dichloroethane-d4	100 %	70-130
460-00-4	Surrogate: p-Bromofluorobenzene	108 %	70-130
2037-26-5	Surrogate: Toluene-d8	101 %	70-130



Analytical Batch Summary

Batch ID: BF30019 **Preparation Method:** EPA SW846-7471 **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13
BF30019-BLK1	Blank	06/03/13
BF30019-BS1	LCS	06/03/13
BF30019-DUP2	Duplicate	06/03/13
BF30019-MS2	Matrix Spike	06/03/13

Batch ID: BF30039 **Preparation Method:** EPA SW 846-1312 SPLP for Extr. for **Prepared By:** KK

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-01	ELB-23 0.5-1	06/03/13
13F0008-03	HA-4A 1.5-2	06/03/13
13F0008-04	HA-5A 1.5-2	06/03/13
13F0008-05	ELB-32 0.5-1	06/03/13
13F0008-07	ELB-33 0.5-1	06/03/13
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13
13F0008-12	DUP-2	06/03/13
BF30039-BLK1	Blank	06/03/13

Batch ID: BF30043 **Preparation Method:** % Solids Prep **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-01	ELB-23 0.5-1	06/03/13
13F0008-03	HA-4A 1.5-2	06/03/13
13F0008-04	HA-5A 1.5-2	06/03/13
13F0008-05	ELB-32 0.5-1	06/03/13
13F0008-07	ELB-33 0.5-1	06/03/13
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13
13F0008-12	DUP-2	06/03/13

Batch ID: BF30048 **Preparation Method:** EPA 3545A **Prepared By:** DB

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13



BF30048-BLK1	Blank	06/03/13
BF30048-BS1	LCS	06/03/13
BF30048-BSD1	LCS Dup	06/03/13
BF30048-MS1	Matrix Spike	06/03/13

Batch ID: BF30051 **Preparation Method:** EPA 3050B **Prepared By:** AMC

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-01	ELB-23 0.5-1	06/03/13
13F0008-03	HA-4A 1.5-2	06/03/13
13F0008-04	HA-5A 1.5-2	06/03/13
13F0008-05	ELB-32 0.5-1	06/03/13
13F0008-07	ELB-33 0.5-1	06/03/13
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13
13F0008-12	DUP-2	06/03/13
BF30051-BLK1	Blank	06/03/13
BF30051-DUP1	Duplicate	06/03/13
BF30051-MS1	Matrix Spike	06/03/13
BF30051-SRM1	Reference	06/03/13

Batch ID: BF30054 **Preparation Method:** EPA 3545A **Prepared By:** SA

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-08	ELB-34 0.25-0.5	06/03/13
13F0008-09	ELB-35 0.25-0.5	06/03/13
13F0008-10	ELB-36 0.25-0.5	06/03/13
13F0008-11	ELB-37 0.25-0.5	06/03/13
BF30054-BLK1	Blank	06/03/13
BF30054-BS1	LCS	06/03/13
BF30054-BSD1	LCS Dup	06/03/13
BF30054-MS1	Matrix Spike	06/03/13

Batch ID: BF30068 **Preparation Method:** EPA 5035A **Prepared By:** KH

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-10	ELB-36 0.25-0.5	06/03/13
BF30068-BLK1	Blank	06/03/13
BF30068-BS1	LCS	06/03/13
BF30068-BSD1	LCS Dup	06/03/13

Batch ID: BF30092 **Preparation Method:** EPA 5035A **Prepared By:** EKM

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-08	ELB-34 0.25-0.5	06/04/13
13F0008-09	ELB-35 0.25-0.5	06/04/13
13F0008-11	ELB-37 0.25-0.5	06/04/13



BF30092-BLK1	Blank	06/04/13
BF30092-BS1	LCS	06/04/13
BF30092-BSD1	LCS Dup	06/04/13
BF30092-MS1	Matrix Spike	06/04/13
BF30092-MSD1	Matrix Spike Dup	06/04/13

Batch ID: BF30096 **Preparation Method:** EPA 5030B **Prepared By:** KH

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-13	Trip Blank	06/04/13
BF30096-BLK1	Blank	06/04/13
BF30096-BS1	LCS	06/04/13
BF30096-BSD1	LCS Dup	06/04/13

Batch ID: BF30151 **Preparation Method:** EPA 3010A **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
13F0008-01	ELB-23 0.5-1	06/04/13
13F0008-03	HA-4A 1.5-2	06/04/13
13F0008-04	HA-5A 1.5-2	06/04/13
13F0008-05	ELB-32 0.5-1	06/04/13
13F0008-07	ELB-33 0.5-1	06/04/13
13F0008-08	ELB-34 0.25-0.5	06/04/13
13F0008-09	ELB-35 0.25-0.5	06/04/13
13F0008-10	ELB-36 0.25-0.5	06/04/13
13F0008-11	ELB-37 0.25-0.5	06/04/13
13F0008-12	DUP-2	06/04/13
BF30151-BLK1	Blank	06/04/13
BF30151-BLK2	Blank	06/04/13
BF30151-DUP1	Duplicate	06/04/13
BF30151-SRM1	Reference	06/04/13



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike Level	Source*	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
		Limit			Result				%REC		

Batch BF30068 - EPA 5035A

Blank (BF30068-BLK1)

Prepared: 06/03/2013 Analyzed: 06/04/2013

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet
1,1,1-Trichloroethane	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,1-Dichloroethylene	ND	5.0	"
1,1-Dichloropropylene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	10	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4-Trichlorobenzene	ND	10	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	10	"
1,2-Dibromoethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
2,2-Dichloropropane	ND	5.0	"
2-Butanone	ND	10	"
2-Chlorotoluene	ND	5.0	"
2-Hexanone	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
4-Methyl-2-pentanone	ND	5.0	"
Acetone	ND	10	"
Acrylonitrile	ND	5.0	"
Benzene	ND	5.0	"
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
Carbon disulfide	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"
cis-1,2-Dichloroethylene	ND	5.0	"
cis-1,3-Dichloropropylene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
Dibromomethane	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
Ethyl Benzene	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
Isopropylbenzene	ND	5.0	"
Methyl Methacrylate	ND	5.0	"
Methyl tert-butyl ether (MTBE)	ND	5.0	"



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF30068 - EPA 5035A

Blank (BF30068-BLK1)

Prepared: 06/03/2013 Analyzed: 06/04/2013

Methylene chloride	ND	10	ug/kg wet								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Tetrahydrofuran	ND	10	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
trans-1,4-dichloro-2-butene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Surrogate: 1,2-Dichloroethane-d4	48.5		ug/L	50.0		97.0	70-130				
Surrogate: p-Bromofluorobenzene	48.7		"	50.0		97.5	70-130				
Surrogate: Toluene-d8	52.1		"	50.0		104	70-130				

LCS (BF30068-BS1)

Prepared & Analyzed: 06/03/2013

1,1,1,2-Tetrachloroethane	48		ug/L	50.0		95.6	70-130				
1,1,1-Trichloroethane	45		"	50.0		90.8	70-130				
1,1,2,2-Tetrachloroethane	53		"	50.0		107	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	44		"	50.0		88.6	70-130				
1,1,2-Trichloroethane	53		"	50.0		107	70-130				
1,1-Dichloroethane	43		"	50.0		86.3	70-130				
1,1-Dichloroethylene	42		"	50.0		84.7	70-130				
1,1-Dichloropropylene	45		"	50.0		90.6	70-130				
1,2,3-Trichlorobenzene	47		"	50.0		94.1	70-130				
1,2,3-Trichloropropane	49		"	50.0		97.5	70-130				
1,2,4-Trichlorobenzene	44		"	50.0		88.4	70-130				
1,2,4-Trimethylbenzene	45		"	50.0		89.7	70-130				
1,2-Dibromo-3-chloropropane	62		"	50.0		124	70-130				
1,2-Dibromoethane	51		"	50.0		101	70-130				
1,2-Dichlorobenzene	46		"	50.0		92.4	70-130				
1,2-Dichloroethane	46		"	50.0		92.8	70-130				
1,2-Dichloropropane	52		"	50.0		105	70-130				
1,3,5-Trimethylbenzene	45		"	50.0		90.2	70-130				
1,3-Dichlorobenzene	45		"	50.0		89.9	70-130				
1,3-Dichloropropane	52		"	50.0		104	70-130				
1,4-Dichlorobenzene	44		"	50.0		88.9	70-130				
2,2-Dichloropropane	49		"	50.0		98.5	70-130				
2-Butanone	71		"	50.0		141	70-130	High Bias			
2-Chlorotoluene	44		"	50.0		87.5	70-130				
2-Hexanone	57		"	50.0		113	70-130				
4-Chlorotoluene	46		"	50.0		92.0	70-130				
4-Methyl-2-pentanone	42		"	50.0		84.4	70-130				
Acetone	37		"	50.0		74.9	70-130				



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit

Batch BF30068 - EPA 5035A

LCS (BF30068-BS1)

Prepared & Analyzed: 06/03/2013

Acrylonitrile	52		ug/L	50.0		103	70-130			
Benzene	49		"	50.0		99.0	70-130			
Bromobenzene	48		"	50.0		96.2	70-130			
Bromochloromethane	60		"	50.0		120	70-130			
Bromodichloromethane	50		"	50.0		99.8	70-130			
Bromoform	50		"	50.0		101	70-130			
Bromomethane	43		"	50.0		85.2	70-130			
Carbon disulfide	89		"	100		88.8	70-130			
Carbon tetrachloride	45		"	50.0		89.6	70-130			
Chlorobenzene	48		"	50.0		96.7	70-130			
Chloroethane	45		"	50.0		89.3	70-130			
Chloroform	51		"	50.0		102	70-130			
Chloromethane	46		"	50.0		92.9	70-130			
cis-1,2-Dichloroethylene	54		"	50.0		107	70-130			
cis-1,3-Dichloropropylene	52		"	50.0		105	70-130			
Dibromochloromethane	50		"	50.0		101	70-130			
Dibromomethane	52		"	50.0		104	70-130			
Dichlorodifluoromethane	36		"	50.0		71.5	70-130			
Ethyl Benzene	49		"	50.0		98.9	70-130			
Hexachlorobutadiene	44		"	50.0		87.5	70-130			
Isopropylbenzene	46		"	50.0		91.3	70-130			
Methyl Methacrylate	58		"	50.0		115	70-130			
Methyl tert-butyl ether (MTBE)	45		"	50.0		90.9	70-130			
Methylene chloride	45		"	50.0		90.6	70-130			
Naphthalene	54		"	50.0		108	70-130			
n-Butylbenzene	44		"	50.0		87.7	70-130			
n-Propylbenzene	46		"	50.0		91.9	70-130			
o-Xylene	48		"	50.0		95.8	70-130			
p- & m- Xylenes	96		"	100		95.7	70-130			
p-Isopropyltoluene	45		"	50.0		90.2	70-130			
sec-Butylbenzene	47		"	50.0		94.0	70-130			
Styrene	51		"	50.0		101	70-130			
tert-Butylbenzene	46		"	50.0		92.6	70-130			
Tetrachloroethylene	47		"	50.0		94.1	70-130			
Tetrahydrofuran	69		"	50.0		138	70-130	High Bias		
Toluene	49		"	50.0		98.4	70-130			
trans-1,2-Dichloroethylene	41		"	50.0		82.7	70-130			
trans-1,3-Dichloropropylene	50		"	50.0		99.2	70-130			
trans-1,4-dichloro-2-butene	50		"	50.0		99.3	70-130			
Trichloroethylene	48		"	50.0		96.9	70-130			
Trichlorofluoromethane	38		"	50.0		76.8	70-130			
Vinyl Chloride	43		"	50.0		85.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	48.0		"	50.0		95.9	70-130			
Surrogate: p-Bromofluorobenzene	48.4		"	50.0		96.7	70-130			
Surrogate: Toluene-d8	51.8		"	50.0		104	70-130			



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30068 - EPA 5035A											
LCS Dup (BF30068-BSD1)											
Prepared & Analyzed: 06/03/2013											
1,1,1,2-Tetrachloroethane	47		ug/L	50.0		94.9	70-130		0.714	30	
1,1,1-Trichloroethane	46		"	50.0		91.2	70-130		0.462	30	
1,1,2,2-Tetrachloroethane	54		"	50.0		108	70-130		0.933	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	45		"	50.0		90.7	70-130		2.34	30	
1,1,2-Trichloroethane	53		"	50.0		106	70-130		0.659	30	
1,1-Dichloroethane	45		"	50.0		89.2	70-130		3.31	30	
1,1-Dichloroethylene	41		"	50.0		82.7	70-130		2.49	30	
1,1-Dichloropropylene	45		"	50.0		89.8	70-130		0.843	30	
1,2,3-Trichlorobenzene	46		"	50.0		93.0	70-130		1.13	30	
1,2,3-Trichloropropane	51		"	50.0		101	70-130		3.67	30	
1,2,4-Trichlorobenzene	43		"	50.0		85.2	70-130		3.68	30	
1,2,4-Trimethylbenzene	46		"	50.0		91.9	70-130		2.40	30	
1,2-Dibromo-3-chloropropane	64		"	50.0		128	70-130		2.71	30	
1,2-Dibromoethane	51		"	50.0		101	70-130		0.237	30	
1,2-Dichlorobenzene	46		"	50.0		92.2	70-130		0.173	30	
1,2-Dichloroethane	46		"	50.0		92.5	70-130		0.281	30	
1,2-Dichloropropane	53		"	50.0		106	70-130		0.702	30	
1,3,5-Trimethylbenzene	47		"	50.0		93.8	70-130		3.93	30	
1,3-Dichlorobenzene	45		"	50.0		89.5	70-130		0.446	30	
1,3-Dichloropropane	52		"	50.0		104	70-130		0.750	30	
1,4-Dichlorobenzene	44		"	50.0		88.5	70-130		0.451	30	
2,2-Dichloropropane	48		"	50.0		97.0	70-130		1.53	30	
2-Butanone	68		"	50.0		136	70-130	High Bias	4.02	30	
2-Chlorotoluene	45		"	50.0		89.1	70-130		1.81	30	
2-Hexanone	56		"	50.0		112	70-130		0.621	30	
4-Chlorotoluene	46		"	50.0		91.7	70-130		0.370	30	
4-Methyl-2-pentanone	43		"	50.0		85.2	70-130		0.873	30	
Acetone	47		"	50.0		94.0	70-130		22.7	30	
Acrylonitrile	49		"	50.0		98.9	70-130		4.37	30	
Benzene	49		"	50.0		97.3	70-130		1.71	30	
Bromobenzene	49		"	50.0		97.9	70-130		1.81	30	
Bromochloromethane	59		"	50.0		118	70-130		1.88	30	
Bromodichloromethane	51		"	50.0		102	70-130		1.69	30	
Bromoform	51		"	50.0		103	70-130		1.79	30	
Bromomethane	42		"	50.0		83.4	70-130		2.16	30	
Carbon disulfide	89		"	100		88.8	70-130		0.0788	30	
Carbon tetrachloride	45		"	50.0		90.0	70-130		0.446	30	
Chlorobenzene	48		"	50.0		95.4	70-130		1.40	30	
Chloroethane	45		"	50.0		89.2	70-130		0.112	30	
Chloroform	51		"	50.0		103	70-130		0.821	30	
Chloromethane	44		"	50.0		87.4	70-130		6.10	30	
cis-1,2-Dichloroethylene	53		"	50.0		105	70-130		1.49	30	
cis-1,3-Dichloropropylene	52		"	50.0		104	70-130		0.518	30	
Dibromochloromethane	51		"	50.0		102	70-130		1.05	30	
Dibromomethane	54		"	50.0		108	70-130		4.10	30	
Dichlorodifluoromethane	36		"	50.0		71.8	70-130		0.475	30	
Ethyl Benzene	49		"	50.0		97.8	70-130		1.16	30	
Hexachlorobutadiene	44		"	50.0		88.7	70-130		1.34	30	
Isopropylbenzene	46		"	50.0		92.6	70-130		1.41	30	
Methyl Methacrylate	57		"	50.0		114	70-130		1.05	30	
Methyl tert-butyl ether (MTBE)	46		"	50.0		92.9	70-130		2.13	30	



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF30068 - EPA 5035A

LCS Dup (BF30068-BSD1)

Prepared & Analyzed: 06/03/2013

Methylene chloride	45		ug/L	50.0		89.1	70-130		1.74	30	
Naphthalene	54		"	50.0		108	70-130		0.352	30	
n-Butylbenzene	44		"	50.0		87.1	70-130		0.755	30	
n-Propylbenzene	47		"	50.0		93.9	70-130		2.13	30	
o-Xylene	48		"	50.0		95.1	70-130		0.754	30	
p- & m- Xylenes	96		"	100		96.1	70-130		0.459	30	
p-Isopropyltoluene	46		"	50.0		92.0	70-130		1.98	30	
sec-Butylbenzene	48		"	50.0		95.8	70-130		1.92	30	
Styrene	50		"	50.0		100	70-130		0.874	30	
tert-Butylbenzene	47		"	50.0		93.5	70-130		0.903	30	
Tetrachloroethylene	48		"	50.0		95.8	70-130		1.83	30	
Tetrahydrofuran	71		"	50.0		141	70-130	High Bias	2.44	30	
Toluene	50		"	50.0		99.9	70-130		1.51	30	
trans-1,2-Dichloroethylene	42		"	50.0		83.2	70-130		0.651	30	
trans-1,3-Dichloropropylene	51		"	50.0		102	70-130		2.65	30	
trans-1,4-dichloro-2-butene	52		"	50.0		103	70-130		3.74	30	
Trichloroethylene	48		"	50.0		96.5	70-130		0.455	30	
Trichlorofluoromethane	39		"	50.0		78.4	70-130		2.11	30	
Vinyl Chloride	43		"	50.0		85.6	70-130		0.539	30	
Surrogate: 1,2-Dichloroethane-d4	50.3		"	50.0		101	70-130				
Surrogate: p-Bromofluorobenzene	50.2		"	50.0		100	70-130				
Surrogate: Toluene-d8	52.1		"	50.0		104	70-130				

Batch BF30092 - EPA 5035A

Blank (BF30092-BLK1)

Prepared & Analyzed: 06/04/2013

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
1,1-Dichloropropylene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	10	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	10	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	10	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,3-Dichloropropane	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
2,2-Dichloropropane	ND	5.0	"								
2-Butanone	ND	10	"								
2-Chlorotoluene	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Chlorotoluene	ND	5.0	"								



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF30092 - EPA 5035A

Blank (BF30092-BLK1)

Prepared & Analyzed: 06/04/2013

4-Methyl-2-pentanone	ND	5.0	ug/kg wet								
Acetone	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl Methacrylate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Tetrahydrofuran	ND	10	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
trans-1,4-dichloro-2-butene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Surrogate: 1,2-Dichloroethane-d4	49.3		ug/L	50.0		98.7	70-130				
Surrogate: p-Bromofluorobenzene	47.8		"	50.0		95.7	70-130				
Surrogate: Toluene-d8	48.5		"	50.0		97.0	70-130				



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
LCS (BF30092-BS1)											
Prepared & Analyzed: 06/04/2013											
1,1,1,2-Tetrachloroethane	48		ug/L	50.0		96.9	70-130				
1,1,1-Trichloroethane	46		"	50.0		92.1	70-130				
1,1,2,2-Tetrachloroethane	51		"	50.0		101	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53		"	50.0		106	70-130				
1,1,2-Trichloroethane	48		"	50.0		95.6	70-130				
1,1-Dichloroethane	32		"	50.0		64.5	70-130	Low Bias			
1,1-Dichloroethylene	47		"	50.0		94.8	70-130				
1,1-Dichloropropylene	43		"	50.0		86.6	70-130				
1,2,3-Trichlorobenzene	50		"	50.0		99.1	70-130				
1,2,3-Trichloropropane	51		"	50.0		102	70-130				
1,2,4-Trichlorobenzene	51		"	50.0		102	70-130				
1,2,4-Trimethylbenzene	47		"	50.0		94.8	70-130				
1,2-Dibromo-3-chloropropane	54		"	50.0		107	70-130				
1,2-Dibromoethane	49		"	50.0		97.6	70-130				
1,2-Dichlorobenzene	49		"	50.0		97.7	70-130				
1,2-Dichloroethane	48		"	50.0		95.9	70-130				
1,2-Dichloropropane	47		"	50.0		94.4	70-130				
1,3,5-Trimethylbenzene	48		"	50.0		96.3	70-130				
1,3-Dichlorobenzene	49		"	50.0		98.4	70-130				
1,3-Dichloropropane	49		"	50.0		97.5	70-130				
1,4-Dichlorobenzene	48		"	50.0		96.5	70-130				
2,2-Dichloropropane	27		"	50.0		54.2	70-130	Low Bias			
2-Butanone	30		"	50.0		60.5	70-130	Low Bias			
2-Chlorotoluene	49		"	50.0		97.4	70-130				
2-Hexanone	51		"	50.0		102	70-130				
4-Chlorotoluene	49		"	50.0		97.2	70-130				
4-Methyl-2-pentanone	53		"	50.0		106	70-130				
Acetone	35		"	50.0		70.6	70-130				
Acrylonitrile	41		"	50.0		81.1	70-130				
Benzene	47		"	50.0		94.8	70-130				
Bromobenzene	47		"	50.0		94.6	70-130				
Bromochloromethane	40		"	50.0		79.7	70-130				
Bromodichloromethane	47		"	50.0		94.9	70-130				
Bromoform	50		"	50.0		99.0	70-130				
Bromomethane	40		"	50.0		80.2	70-130				
Carbon disulfide	87		"	100		86.5	70-130				
Carbon tetrachloride	46		"	50.0		91.1	70-130				
Chlorobenzene	48		"	50.0		95.8	70-130				
Chloroethane	48		"	50.0		96.0	70-130				
Chloroform	44		"	50.0		88.1	70-130				
Chloromethane	43		"	50.0		85.9	70-130				
cis-1,2-Dichloroethylene	17		"	50.0		33.9	70-130	Low Bias			
cis-1,3-Dichloropropylene	49		"	50.0		97.6	70-130				
Dibromochloromethane	49		"	50.0		98.3	70-130				
Dibromomethane	48		"	50.0		95.6	70-130				
Dichlorodifluoromethane	34		"	50.0		67.4	70-130	Low Bias			
Ethyl Benzene	49		"	50.0		97.4	70-130				
Hexachlorobutadiene	48		"	50.0		96.3	70-130				
Isopropylbenzene	47		"	50.0		94.2	70-130				
Methyl Methacrylate	49		"	50.0		98.1	70-130				
Methyl tert-butyl ether (MTBE)	44		"	50.0		87.1	70-130				



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF30092 - EPA 5035A

LCS (BF30092-BS1)

Prepared & Analyzed: 06/04/2013

Methylene chloride	42		ug/L	50.0		83.2	70-130				
Naphthalene	54		"	50.0		108	70-130				
n-Butylbenzene	48		"	50.0		96.1	70-130				
n-Propylbenzene	48		"	50.0		96.5	70-130				
o-Xylene	47		"	50.0		93.9	70-130				
p- & m- Xylenes	97		"	100		96.5	70-130				
p-Isopropyltoluene	50		"	50.0		99.7	70-130				
sec-Butylbenzene	49		"	50.0		98.0	70-130				
Styrene	51		"	50.0		101	70-130				
tert-Butylbenzene	49		"	50.0		97.4	70-130				
Tetrachloroethylene	47		"	50.0		93.8	70-130				
Tetrahydrofuran	49		"	50.0		97.7	70-130				
Toluene	47		"	50.0		93.7	70-130				
trans-1,2-Dichloroethylene	38		"	50.0		75.8	70-130				
trans-1,3-Dichloropropylene	50		"	50.0		99.1	70-130				
trans-1,4-dichloro-2-butene	51		"	50.0		102	70-130				
Trichloroethylene	45		"	50.0		89.3	70-130				
Trichlorofluoromethane	48		"	50.0		96.9	70-130				
Vinyl Chloride	42		"	50.0		84.6	70-130				
Surrogate: 1,2-Dichloroethane-d4	51.9		"	50.0		104	70-130				
Surrogate: p-Bromofluorobenzene	49.5		"	50.0		99.1	70-130				
Surrogate: Toluene-d8	48.7		"	50.0		97.5	70-130				

LCS Dup (BF30092-BS1)

Prepared & Analyzed: 06/04/2013

1,1,1,2-Tetrachloroethane	47		ug/L	50.0		93.8	70-130		3.23	30	
1,1,1-Trichloroethane	50		"	50.0		101	70-130		8.78	30	
1,1,2,2-Tetrachloroethane	46		"	50.0		92.8	70-130		8.52	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51		"	50.0		102	70-130		4.46	30	
1,1,2-Trichloroethane	47		"	50.0		94.5	70-130		1.18	30	
1,1-Dichloroethane	69		"	50.0		139	70-130	High Bias	72.9	30	Non-dir.
1,1-Dichloroethylene	46		"	50.0		91.9	70-130		3.11	30	
1,1-Dichloropropylene	48		"	50.0		95.5	70-130		9.80	30	
1,2,3-Trichlorobenzene	49		"	50.0		97.8	70-130		1.34	30	
1,2,3-Trichloropropane	45		"	50.0		90.9	70-130		11.6	30	
1,2,4-Trichlorobenzene	50		"	50.0		100	70-130		1.29	30	
1,2,4-Trimethylbenzene	48		"	50.0		95.4	70-130		0.547	30	
1,2-Dibromo-3-chloropropane	48		"	50.0		96.0	70-130		11.1	30	
1,2-Dibromoethane	47		"	50.0		94.6	70-130		3.14	30	
1,2-Dichlorobenzene	48		"	50.0		95.6	70-130		2.17	30	
1,2-Dichloroethane	49		"	50.0		98.8	70-130		3.04	30	
1,2-Dichloropropane	47		"	50.0		94.3	70-130		0.0424	30	
1,3,5-Trimethylbenzene	48		"	50.0		95.5	70-130		0.813	30	
1,3-Dichlorobenzene	48		"	50.0		95.9	70-130		2.55	30	
1,3-Dichloropropane	47		"	50.0		93.3	70-130		4.34	30	
1,4-Dichlorobenzene	48		"	50.0		95.4	70-130		1.23	30	
2,2-Dichloropropane	51		"	50.0		102	70-130		60.8	30	Non-dir.
2-Butanone	57		"	50.0		114	70-130		61.7	30	Non-dir.
2-Chlorotoluene	47		"	50.0		94.6	70-130		2.92	30	
2-Hexanone	46		"	50.0		92.1	70-130		10.7	30	
4-Chlorotoluene	49		"	50.0		97.6	70-130		0.390	30	
4-Methyl-2-pentanone	49		"	50.0		97.4	70-130		8.28	30	
Acetone	37		"	50.0		73.6	70-130		4.05	30	



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF30092 - EPA 5035A

LCS Dup (BF30092-BSD1)

Prepared & Analyzed: 06/04/2013

Acrylonitrile	34		ug/L	50.0		68.6	70-130	Low Bias	16.8	30	
Benzene	50		"	50.0		99.7	70-130		5.04	30	
Bromobenzene	47		"	50.0		93.9	70-130		0.806	30	
Bromochloromethane	47		"	50.0		93.5	70-130		15.9	30	
Bromodichloromethane	48		"	50.0		96.1	70-130		1.28	30	
Bromoform	47		"	50.0		93.6	70-130		5.65	30	
Bromomethane	39		"	50.0		77.3	70-130		3.76	30	
Carbon disulfide	83		"	100		82.8	70-130		4.43	30	
Carbon tetrachloride	50		"	50.0		101	70-130		10.2	30	
Chlorobenzene	48		"	50.0		95.3	70-130		0.607	30	
Chloroethane	46		"	50.0		92.3	70-130		3.97	30	
Chloroform	50		"	50.0		100	70-130		12.7	30	
Chloromethane	42		"	50.0		84.2	70-130		2.05	30	
cis-1,2-Dichloroethylene	51		"	50.0		102	70-130		100	30	Non-dir.
cis-1,3-Dichloropropylene	50		"	50.0		99.2	70-130		1.61	30	
Dibromochloromethane	48		"	50.0		96.9	70-130		1.35	30	
Dibromomethane	48		"	50.0		95.1	70-130		0.545	30	
Dichlorodifluoromethane	31		"	50.0		61.9	70-130	Low Bias	8.54	30	
Ethyl Benzene	49		"	50.0		97.7	70-130		0.328	30	
Hexachlorobutadiene	50		"	50.0		99.8	70-130		3.59	30	
Isopropylbenzene	48		"	50.0		95.8	70-130		1.71	30	
Methyl Methacrylate	49		"	50.0		97.3	70-130		0.840	30	
Methyl tert-butyl ether (MTBE)	39		"	50.0		78.8	70-130		10.1	30	
Methylene chloride	39		"	50.0		78.8	70-130		5.41	30	
Naphthalene	52		"	50.0		104	70-130		3.73	30	
n-Butylbenzene	49		"	50.0		98.3	70-130		2.22	30	
n-Propylbenzene	48		"	50.0		95.4	70-130		1.17	30	
o-Xylene	47		"	50.0		94.2	70-130		0.362	30	
p- & m- Xylenes	97		"	100		97.4	70-130		0.836	30	
p-Isopropyltoluene	49		"	50.0		97.2	70-130		2.58	30	
sec-Butylbenzene	49		"	50.0		98.6	70-130		0.570	30	
Styrene	50		"	50.0		100	70-130		0.974	30	
tert-Butylbenzene	49		"	50.0		97.9	70-130		0.532	30	
Tetrachloroethylene	47		"	50.0		93.0	70-130		0.814	30	
Tetrahydrofuran	52		"	50.0		104	70-130		6.05	30	
Toluene	47		"	50.0		93.6	70-130		0.128	30	
trans-1,2-Dichloroethylene	36		"	50.0		72.8	70-130		4.04	30	
trans-1,3-Dichloropropylene	47		"	50.0		93.6	70-130		5.71	30	
trans-1,4-dichloro-2-butene	47		"	50.0		94.8	70-130		7.43	30	
Trichloroethylene	46		"	50.0		92.6	70-130		3.69	30	
Trichlorofluoromethane	46		"	50.0		92.5	70-130		4.71	30	
Vinyl Chloride	39		"	50.0		78.0	70-130		8.07	30	
Surrogate: 1,2-Dichloroethane-d4	52.7		"	50.0		105	70-130				
Surrogate: p-Bromofluorobenzene	49.4		"	50.0		98.7	70-130				
Surrogate: Toluene-d8	48.6		"	50.0		97.2	70-130				



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF30092 - EPA 5035A

Matrix Spike (BF30092-MS1)

*Source sample: 13F0008-11 (ELB-37 0.25-0.5)

Prepared & Analyzed: 06/04/2013

1,1,1,2-Tetrachloroethane	40		ug/L	50.0	ND	79.9	70-130				
1,1,1-Trichloroethane	43		"	50.0	ND	85.7	70-130				
1,1,2,2-Tetrachloroethane	42		"	50.0	ND	84.1	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50		"	50.0	ND	99.1	70-130				
1,1,2-Trichloroethane	43		"	50.0	ND	85.5	70-130				
1,1-Dichloroethane	31		"	50.0	ND	61.1	70-130	Low Bias			
1,1-Dichloroethylene	46		"	50.0	ND	92.8	70-130				
1,1-Dichloropropylene	41		"	50.0	ND	82.3	70-130				
1,2,3-Trichlorobenzene	20		"	50.0	ND	39.2	70-130	Low Bias			
1,2,3-Trichloropropane	47		"	50.0	ND	93.7	70-130				
1,2,4-Trichlorobenzene	20		"	50.0	ND	39.5	70-130	Low Bias			
1,2,4-Trimethylbenzene	34		"	50.0	ND	67.6	70-130	Low Bias			
1,2-Dibromo-3-chloropropane	37		"	50.0	ND	73.3	70-130				
1,2-Dibromoethane	40		"	50.0	ND	80.4	70-130				
1,2-Dichlorobenzene	30		"	50.0	ND	59.2	70-130	Low Bias			
1,2-Dichloroethane	42		"	50.0	ND	84.9	70-130				
1,2-Dichloropropane	44		"	50.0	ND	88.0	70-130				
1,3,5-Trimethylbenzene	36		"	50.0	ND	71.8	70-130				
1,3-Dichlorobenzene	30		"	50.0	ND	59.9	70-130	Low Bias			
1,3-Dichloropropane	43		"	50.0	ND	85.1	70-130				
1,4-Dichlorobenzene	29		"	50.0	ND	57.8	70-130	Low Bias			
2,2-Dichloropropane	22		"	50.0	ND	44.7	70-130	Low Bias			
2-Butanone	15		"	50.0	ND	30.1	70-130	Low Bias			
2-Chlorotoluene	35		"	50.0	ND	70.2	70-130				
2-Hexanone	32		"	50.0	ND	64.8	70-130	Low Bias			
4-Chlorotoluene	36		"	50.0	ND	72.0	70-130				
4-Methyl-2-pentanone	41		"	50.0	ND	82.1	70-130				
Acetone	34		"	50.0	15	38.4	70-130	Low Bias			
Acrylonitrile	30		"	50.0	ND	60.1	70-130	Low Bias			
Benzene	44		"	50.0	ND	87.8	70-130				
Bromobenzene	36		"	50.0	ND	71.0	70-130				
Bromochloromethane	35		"	50.0	ND	70.8	70-130				
Bromodichloromethane	41		"	50.0	ND	81.4	70-130				
Bromoform	35		"	50.0	ND	70.2	70-130				
Bromomethane	38		"	50.0	ND	75.2	70-130				
Carbon disulfide	74		"	100	ND	73.9	70-130				
Carbon tetrachloride	44		"	50.0	ND	88.3	70-130				
Chlorobenzene	38		"	50.0	ND	76.6	70-130				
Chloroethane	47		"	50.0	ND	94.8	70-130				
Chloroform	41		"	50.0	ND	82.7	70-130				
Chloromethane	44		"	50.0	ND	87.4	70-130				
cis-1,2-Dichloroethylene	15		"	50.0	ND	31.0	70-130	Low Bias			
cis-1,3-Dichloropropylene	37		"	50.0	ND	73.7	70-130				
Dibromochloromethane	38		"	50.0	ND	76.1	70-130				
Dibromomethane	44		"	50.0	ND	88.1	70-130				
Dichlorodifluoromethane	34		"	50.0	ND	67.5	70-130	Low Bias			
Ethyl Benzene	42		"	50.0	ND	84.3	70-130				
Hexachlorobutadiene	26		"	50.0	ND	51.4	70-130	Low Bias			
Isopropylbenzene	41		"	50.0	ND	81.3	70-130				
Methyl Methacrylate	54		"	50.0	ND	108	70-130				
Methyl tert-butyl ether (MTBE)	39		"	50.0	ND	78.5	70-130				



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit

Batch BF30092 - EPA 5035A

Matrix Spike (BF30092-MS1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)						Prepared & Analyzed: 06/04/2013					
Methylene chloride	42		ug/L	50.0	3.1	78.7	70-130					
Naphthalene	26		"	50.0	0.88	49.5	70-130	Low Bias				
n-Butylbenzene	31		"	50.0	ND	61.8	70-130	Low Bias				
n-Propylbenzene	36		"	50.0	ND	73.0	70-130					
o-Xylene	39		"	50.0	ND	78.6	70-130					
p- & m- Xylenes	79		"	100	ND	79.0	70-130					
p-Isopropyltoluene	35		"	50.0	ND	70.4	70-130					
sec-Butylbenzene	38		"	50.0	ND	75.9	70-130					
Styrene	31		"	50.0	ND	62.7	70-130	Low Bias				
tert-Butylbenzene	40		"	50.0	ND	79.1	70-130					
Tetrachloroethylene	39		"	50.0	ND	78.0	70-130					
Tetrahydrofuran	42		"	50.0	ND	84.3	70-130					
Toluene	42		"	50.0	ND	83.8	70-130					
trans-1,2-Dichloroethylene	37		"	50.0	ND	74.0	70-130					
trans-1,3-Dichloropropylene	34		"	50.0	ND	68.3	70-130	Low Bias				
trans-1,4-dichloro-2-butene	31		"	50.0	ND	61.1	70-130	Low Bias				
Trichloroethylene	41		"	50.0	ND	82.5	70-130					
Trichlorofluoromethane	49		"	50.0	ND	97.1	70-130					
Vinyl Chloride	43		"	50.0	ND	86.0	70-130					
Surrogate: 1,2-Dichloroethane-d4	51.2		"	50.0		102	70-130					
Surrogate: p-Bromofluorobenzene	49.3		"	50.0		98.6	70-130					
Surrogate: Toluene-d8	49.1		"	50.0		98.2	70-130					

Matrix Spike Dup (BF30092-MSD1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)						Prepared & Analyzed: 06/04/2013					
1,1,1,2-Tetrachloroethane	35		ug/L	50.0	ND	70.8	70-130		12.1	30		
1,1,1-Trichloroethane	45		"	50.0	ND	89.3	70-130		4.05	30		
1,1,2,2-Tetrachloroethane	36		"	50.0	ND	72.7	70-130		14.5	30		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50		"	50.0	ND	99.9	70-130		0.824	30		
1,1,2-Trichloroethane	39		"	50.0	ND	77.2	70-130		10.2	30		
1,1-Dichloroethane	29		"	50.0	ND	58.0	70-130	Low Bias	5.27	30		
1,1-Dichloroethylene	48		"	50.0	ND	95.5	70-130		2.91	30		
1,1-Dichloropropylene	39		"	50.0	ND	78.3	70-130		4.96	30		
1,2,3-Trichlorobenzene	11		"	50.0	ND	22.0	70-130	Low Bias	56.1	30	Non-dir.	
1,2,3-Trichloropropane	38		"	50.0	ND	76.9	70-130		19.7	30		
1,2,4-Trichlorobenzene	12		"	50.0	ND	24.2	70-130	Low Bias	48.0	30	Non-dir.	
1,2,4-Trimethylbenzene	31		"	50.0	ND	61.1	70-130	Low Bias	10.2	30		
1,2-Dibromo-3-chloropropane	31		"	50.0	ND	61.1	70-130	Low Bias	18.2	30		
1,2-Dibromoethane	35		"	50.0	ND	69.8	70-130	Low Bias	14.2	30		
1,2-Dichlorobenzene	22		"	50.0	ND	43.7	70-130	Low Bias	30.1	30	Non-dir.	
1,2-Dichloroethane	43		"	50.0	ND	86.3	70-130		1.63	30		
1,2-Dichloropropane	42		"	50.0	ND	84.0	70-130		4.63	30		
1,3,5-Trimethylbenzene	33		"	50.0	ND	66.3	70-130	Low Bias	7.96	30		
1,3-Dichlorobenzene	22		"	50.0	ND	44.7	70-130	Low Bias	29.1	30		
1,3-Dichloropropane	38		"	50.0	ND	75.6	70-130		11.9	30		
1,4-Dichlorobenzene	22		"	50.0	ND	43.1	70-130	Low Bias	29.2	30		
2,2-Dichloropropane	36		"	50.0	ND	71.2	70-130		45.7	30	Non-dir.	
2-Butanone	44		"	50.0	ND	87.6	70-130		97.6	30	Non-dir.	
2-Chlorotoluene	32		"	50.0	ND	63.9	70-130	Low Bias	9.36	30		
2-Hexanone	28		"	50.0	ND	56.9	70-130	Low Bias	13.0	30		
4-Chlorotoluene	28		"	50.0	ND	56.4	70-130	Low Bias	24.3	30		
4-Methyl-2-pentanone	38		"	50.0	ND	75.5	70-130		8.38	30		
Acetone	47		"	50.0	15	65.6	70-130	Low Bias	52.2	30	Non-dir.	



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30092 - EPA 5035A											
Matrix Spike Dup (BF30092-MSD1)	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)					Prepared & Analyzed: 06/04/2013					
Acrylonitrile	25		ug/L	50.0	ND	49.1	70-130	Low Bias	20.1	30	
Benzene	43		"	50.0	ND	85.4	70-130		2.75	30	
Bromobenzene	28		"	50.0	ND	55.9	70-130	Low Bias	23.8	30	
Bromochloromethane	46		"	50.0	ND	92.9	70-130		27.0	30	
Bromodichloromethane	38		"	50.0	ND	76.5	70-130		6.18	30	
Bromoform	32		"	50.0	ND	64.7	70-130	Low Bias	8.07	30	
Bromomethane	34		"	50.0	ND	67.4	70-130	Low Bias	11.0	30	
Carbon disulfide	70		"	100	ND	69.6	70-130	Low Bias	6.02	30	
Carbon tetrachloride	43		"	50.0	ND	86.3	70-130		2.34	30	
Chlorobenzene	32		"	50.0	ND	63.0	70-130	Low Bias	19.5	30	
Chloroethane	48		"	50.0	ND	96.6	70-130		1.92	30	
Chloroform	43		"	50.0	ND	86.5	70-130		4.59	30	
Chloromethane	40		"	50.0	ND	80.7	70-130		8.04	30	
cis-1,2-Dichloroethylene	41		"	50.0	ND	81.1	70-130		89.4	30	Non-dir.
cis-1,3-Dichloropropylene	30		"	50.0	ND	60.4	70-130	Low Bias	19.8	30	
Dibromochloromethane	34		"	50.0	ND	68.5	70-130	Low Bias	10.6	30	
Dibromomethane	42		"	50.0	ND	84.3	70-130		4.36	30	
Dichlorodifluoromethane	33		"	50.0	ND	65.9	70-130	Low Bias	2.43	30	
Ethyl Benzene	37		"	50.0	ND	73.6	70-130		13.6	30	
Hexachlorobutadiene	19		"	50.0	ND	37.9	70-130	Low Bias	30.2	30	Non-dir.
Isopropylbenzene	38		"	50.0	ND	76.5	70-130		6.03	30	
Methyl Methacrylate	34		"	50.0	ND	68.4	70-130	Low Bias	44.7	30	Non-dir.
Methyl tert-butyl ether (MTBE)	40		"	50.0	ND	79.1	70-130		0.787	30	
Methylene chloride	40		"	50.0	3.1	74.8	70-130		4.95	30	
Naphthalene	14		"	50.0	0.87	26.3	70-130	Low Bias	61.2	30	Non-dir.
n-Butylbenzene	27		"	50.0	ND	54.7	70-130	Low Bias	12.1	30	
n-Propylbenzene	35		"	50.0	ND	69.0	70-130	Low Bias	5.55	30	
o-Xylene	33		"	50.0	ND	65.4	70-130	Low Bias	18.3	30	
p- & m- Xylenes	68		"	100	ND	67.7	70-130	Low Bias	15.3	30	
p-Isopropyltoluene	33		"	50.0	ND	65.4	70-130	Low Bias	7.45	30	
sec-Butylbenzene	34		"	50.0	ND	67.6	70-130	Low Bias	11.6	30	
Styrene	16		"	50.0	ND	31.4	70-130	Low Bias	66.6	30	Non-dir.
tert-Butylbenzene	36		"	50.0	ND	72.4	70-130		8.90	30	
Tetrachloroethylene	36		"	50.0	ND	72.0	70-130		8.08	30	
Tetrahydrofuran	49		"	50.0	ND	98.8	70-130		15.9	30	
Toluene	38		"	50.0	ND	76.5	70-130		9.16	30	
trans-1,2-Dichloroethylene	32		"	50.0	ND	64.6	70-130	Low Bias	13.5	30	
trans-1,3-Dichloropropylene	28		"	50.0	ND	56.2	70-130	Low Bias	19.4	30	
trans-1,4-dichloro-2-butene	32		"	50.0	ND	63.1	70-130	Low Bias	3.16	30	
Trichloroethylene	38		"	50.0	ND	76.0	70-130		8.20	30	
Trichlorofluoromethane	48		"	50.0	ND	95.9	70-130		1.29	30	
Vinyl Chloride	42		"	50.0	ND	84.4	70-130		1.90	30	
Surrogate: 1,2-Dichloroethane-d4	53.5		"	50.0		107	70-130				
Surrogate: p-Bromofluorobenzene	51.4		"	50.0		103	70-130				
Surrogate: Toluene-d8	50.2		"	50.0		100	70-130				



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF30096 - EPA 5030B

Blank (BF30096-BLK1)

Prepared & Analyzed: 06/04/2013

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	2.0	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	2.0	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	2.0	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	2.0	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrylonitrile	ND	1.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl Methacrylate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF30096 - EPA 5030B

Blank (BF30096-BLK1)

Prepared & Analyzed: 06/04/2013

Methylene chloride	ND	2.0	ug/L								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Tetrahydrofuran	ND	2.0	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	10.4		"	10.0		104	70-130				
Surrogate: p-Bromofluorobenzene	11.0		"	10.0		110	70-130				
Surrogate: Toluene-d8	10.3		"	10.0		103	70-130				

LCS (BF30096-BS1)

Prepared & Analyzed: 06/04/2013

1,1,1,2-Tetrachloroethane	9.6		ug/L	10.0		96.0	70-130				
1,1,1-Trichloroethane	9.1		"	10.0		91.1	70-130				
1,1,2,2-Tetrachloroethane	10		"	10.0		104	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.0		"	10.0		80.4	70-130				
1,1,2-Trichloroethane	9.7		"	10.0		97.0	70-130				
1,1-Dichloroethane	10		"	10.0		104	70-130				
1,1-Dichloroethylene	8.1		"	10.0		80.7	70-130				
1,1-Dichloropropylene	8.4		"	10.0		84.5	70-130				
1,2,3-Trichlorobenzene	9.2		"	10.0		92.0	70-130				
1,2,3-Trichloropropane	10		"	10.0		103	70-130				
1,2,4-Trichlorobenzene	9.7		"	10.0		96.6	70-130				
1,2,4-Trimethylbenzene	9.2		"	10.0		91.9	70-130				
1,2-Dibromo-3-chloropropane	8.1		"	10.0		80.8	70-130				
1,2-Dibromoethane	9.9		"	10.0		99.3	70-130				
1,2-Dichlorobenzene	9.0		"	10.0		89.9	70-130				
1,2-Dichloroethane	9.4		"	10.0		94.4	70-130				
1,2-Dichloropropane	9.6		"	10.0		95.8	70-130				
1,3,5-Trimethylbenzene	9.5		"	10.0		94.8	70-130				
1,3-Dichlorobenzene	9.0		"	10.0		89.9	70-130				
1,3-Dichloropropane	9.7		"	10.0		96.9	70-130				
1,4-Dichlorobenzene	8.8		"	10.0		88.5	70-130				
2,2-Dichloropropane	10		"	10.0		103	70-130				
2-Butanone	10		"	10.0		101	70-130				
2-Chlorotoluene	9.2		"	10.0		92.5	70-130				
2-Hexanone	8.2		"	10.0		82.5	70-130				
4-Chlorotoluene	9.5		"	10.0		95.0	70-130				
4-Methyl-2-pentanone	8.5		"	10.0		85.4	70-130				
Acetone	8.3		"	10.0		82.9	70-130				



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF30096 - EPA 5030B

LCS (BF30096-BS1)

Prepared & Analyzed: 06/04/2013

Acrylonitrile	10		ug/L	10.0		104	70-130				
Benzene	9.2		"	10.0		92.3	70-130				
Bromobenzene	9.5		"	10.0		94.6	70-130				
Bromochloromethane	10		"	10.0		103	70-130				
Bromodichloromethane	10		"	10.0		103	70-130				
Bromoform	11		"	10.0		108	70-130				
Bromomethane	7.4		"	10.0		73.5	70-130				
Carbon disulfide	17		"	20.0		83.4	70-130				
Carbon tetrachloride	9.0		"	10.0		89.8	70-130				
Chlorobenzene	9.1		"	10.0		90.8	70-130				
Chloroethane	7.8		"	10.0		77.6	70-130				
Chloroform	9.2		"	10.0		91.9	70-130				
Chloromethane	6.7		"	10.0		66.8	70-130	Low Bias			
cis-1,2-Dichloroethylene	8.7		"	10.0		87.2	70-130				
cis-1,3-Dichloropropylene	11		"	10.0		108	70-130				
Dibromochloromethane	11		"	10.0		105	70-130				
Dibromomethane	9.9		"	10.0		99.3	70-130				
Dichlorodifluoromethane	4.8		"	10.0		48.4	70-130	Low Bias			
Ethyl Benzene	9.8		"	10.0		97.8	70-130				
Hexachlorobutadiene	9.3		"	10.0		93.1	70-130				
Isopropylbenzene	9.4		"	10.0		93.6	70-130				
Methyl Methacrylate	10		"	10.0		100	70-130				
Methyl tert-butyl ether (MTBE)	10		"	10.0		99.8	70-130				
Methylene chloride	7.3		"	10.0		72.7	70-130				
Naphthalene	10		"	10.0		99.6	70-130				
n-Butylbenzene	9.8		"	10.0		97.8	70-130				
n-Propylbenzene	9.6		"	10.0		96.1	70-130				
o-Xylene	9.5		"	10.0		94.9	70-130				
p- & m- Xylenes	20		"	20.0		102	70-130				
p-Isopropyltoluene	9.6		"	10.0		95.6	70-130				
sec-Butylbenzene	9.6		"	10.0		96.5	70-130				
Styrene	9.8		"	10.0		98.5	70-130				
tert-Butylbenzene	9.3		"	10.0		92.8	70-130				
Tetrachloroethylene	8.9		"	10.0		89.2	70-130				
Tetrahydrofuran	9.7		"	10.0		96.6	70-130				
Toluene	9.4		"	10.0		93.8	70-130				
trans-1,2-Dichloroethylene	8.8		"	10.0		88.3	70-130				
trans-1,3-Dichloropropylene	11		"	10.0		109	70-130				
trans-1,4-dichloro-2-butene	10		"	10.0		101	70-130				
Trichloroethylene	8.8		"	10.0		87.8	70-130				
Trichlorofluoromethane	7.6		"	10.0		75.7	70-130				
Vinyl Chloride	6.7		"	10.0		66.8	70-130	Low Bias			
Surrogate: 1,2-Dichloroethane-d4	10.3		"	10.0		103	70-130				
Surrogate: p-Bromofluorobenzene	9.74		"	10.0		97.4	70-130				
Surrogate: Toluene-d8	9.92		"	10.0		99.2	70-130				



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit							Units	Level
Batch BF30096 - EPA 5030B										
LCS Dup (BF30096-BSD1)										
Prepared & Analyzed: 06/04/2013										
1,1,1,2-Tetrachloroethane	9.9		ug/L	10.0	99.1	70-130	3.18		30	
1,1,1-Trichloroethane	9.5		"	10.0	95.3	70-130	4.51		30	
1,1,2,2-Tetrachloroethane	11		"	10.0	114	70-130	8.93		30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.6		"	10.0	95.9	70-130	17.6		30	
1,1,2-Trichloroethane	10		"	10.0	101	70-130	4.14		30	
1,1-Dichloroethane	9.1		"	10.0	90.6	70-130	13.9		30	
1,1-Dichloroethylene	9.0		"	10.0	90.0	70-130	10.9		30	
1,1-Dichloropropylene	8.6		"	10.0	85.7	70-130	1.41		30	
1,2,3-Trichlorobenzene	9.6		"	10.0	96.0	70-130	4.26		30	
1,2,3-Trichloropropane	11		"	10.0	107	70-130	4.09		30	
1,2,4-Trichlorobenzene	10		"	10.0	99.6	70-130	3.06		30	
1,2,4-Trimethylbenzene	9.3		"	10.0	92.8	70-130	0.975		30	
1,2-Dibromo-3-chloropropane	7.9		"	10.0	79.1	70-130	2.13		30	
1,2-Dibromoethane	10		"	10.0	103	70-130	3.66		30	
1,2-Dichlorobenzene	9.3		"	10.0	93.4	70-130	3.82		30	
1,2-Dichloroethane	9.6		"	10.0	95.5	70-130	1.16		30	
1,2-Dichloropropane	9.9		"	10.0	99.4	70-130	3.69		30	
1,3,5-Trimethylbenzene	9.5		"	10.0	95.2	70-130	0.421		30	
1,3-Dichlorobenzene	9.2		"	10.0	91.8	70-130	2.09		30	
1,3-Dichloropropane	10		"	10.0	101	70-130	4.34		30	
1,4-Dichlorobenzene	9.0		"	10.0	90.3	70-130	2.01		30	
2,2-Dichloropropane	9.0		"	10.0	90.3	70-130	13.5		30	
2-Butanone	11		"	10.0	112	70-130	9.88		30	
2-Chlorotoluene	9.4		"	10.0	93.5	70-130	1.08		30	
2-Hexanone	8.9		"	10.0	88.9	70-130	7.47		30	
4-Chlorotoluene	9.6		"	10.0	96.1	70-130	1.15		30	
4-Methyl-2-pentanone	9.4		"	10.0	94.5	70-130	10.1		30	
Acetone	9.3		"	10.0	92.8	70-130	11.3		30	
Acrylonitrile	8.8		"	10.0	87.8	70-130	17.0		30	
Benzene	9.6		"	10.0	96.5	70-130	4.45		30	
Bromobenzene	9.8		"	10.0	98.1	70-130	3.63		30	
Bromochloromethane	11		"	10.0	109	70-130	5.10		30	
Bromodichloromethane	11		"	10.0	109	70-130	5.00		30	
Bromoform	12		"	10.0	116	70-130	7.35		30	
Bromomethane	9.0		"	10.0	90.2	70-130	20.4		30	
Carbon disulfide	19		"	20.0	96.2	70-130	14.3		30	
Carbon tetrachloride	9.2		"	10.0	92.4	70-130	2.85		30	
Chlorobenzene	9.4		"	10.0	93.6	70-130	3.04		30	
Chloroethane	8.9		"	10.0	88.6	70-130	13.2		30	
Chloroform	9.6		"	10.0	95.9	70-130	4.26		30	
Chloromethane	7.5		"	10.0	75.2	70-130	11.8		30	
cis-1,2-Dichloroethylene	9.3		"	10.0	92.9	70-130	6.33		30	
cis-1,3-Dichloropropylene	11		"	10.0	109	70-130	0.826		30	
Dibromochloromethane	11		"	10.0	110	70-130	4.00		30	
Dibromomethane	10		"	10.0	102	70-130	2.88		30	
Dichlorodifluoromethane	5.0		"	10.0	49.5	70-130	2.25	Low Bias	30	
Ethyl Benzene	10		"	10.0	99.6	70-130	1.82		30	
Hexachlorobutadiene	9.2		"	10.0	92.3	70-130	0.863		30	
Isopropylbenzene	9.4		"	10.0	94.1	70-130	0.533		30	
Methyl Methacrylate	11		"	10.0	109	70-130	8.04		30	
Methyl tert-butyl ether (MTBE)	8.8		"	10.0	87.9	70-130	12.7		30	



Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF30096 - EPA 5030B

LCS Dup (BF30096-BSD1)

Prepared & Analyzed: 06/04/2013

Methylene chloride	8.3		ug/L	10.0		83.4	70-130		13.7	30	
Naphthalene	11		"	10.0		110	70-130		9.65	30	
n-Butylbenzene	9.4		"	10.0		93.9	70-130		4.07	30	
n-Propylbenzene	9.5		"	10.0		95.3	70-130		0.836	30	
o-Xylene	9.7		"	10.0		97.2	70-130		2.39	30	
p- & m- Xylenes	20		"	20.0		102	70-130		0.245	30	
p-Isopropyltoluene	9.4		"	10.0		94.0	70-130		1.69	30	
sec-Butylbenzene	9.7		"	10.0		96.6	70-130		0.104	30	
Styrene	10		"	10.0		101	70-130		2.31	30	
tert-Butylbenzene	9.4		"	10.0		94.3	70-130		1.60	30	
Tetrachloroethylene	9.0		"	10.0		89.7	70-130		0.559	30	
Tetrahydrofuran	12		"	10.0		121	70-130		22.4	30	
Toluene	9.5		"	10.0		95.0	70-130		1.27	30	
trans-1,2-Dichloroethylene	7.1		"	10.0		71.1	70-130		21.6	30	
trans-1,3-Dichloropropylene	11		"	10.0		110	70-130		0.912	30	
trans-1,4-dichloro-2-butene	10		"	10.0		105	70-130		3.99	30	
Trichloroethylene	9.3		"	10.0		93.1	70-130		5.86	30	
Trichlorofluoromethane	8.7		"	10.0		87.3	70-130		14.2	30	
Vinyl Chloride	7.7		"	10.0		77.2	70-130		14.4	30	
Surrogate: 1,2-Dichloroethane-d4	10.4		"	10.0		104	70-130				
Surrogate: p-Bromofluorobenzene	9.80		"	10.0		98.0	70-130				
Surrogate: Toluene-d8	10.0		"	10.0		100	70-130				



Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF30054 - EPA 3545A

Blank (BF30054-BLK1)

Prepared: 06/03/2013 Analyzed: 06/04/2013

Acenaphthene	ND	250	ug/kg wet								
Acenaphthylene	ND	250	"								
Aniline	ND	250	"								
Anthracene	ND	250	"								
Benzo(a)anthracene	ND	250	"								
Benzo(a)pyrene	ND	250	"								
Benzo(b)fluoranthene	ND	250	"								
Benzo(g,h,i)perylene	ND	250	"								
Benzo(k)fluoranthene	ND	250	"								
Benzyl butyl phthalate	ND	250	"								
4-Bromophenyl phenyl ether	ND	250	"								
4-Chloro-3-methylphenol	ND	250	"								
4-Chloroaniline	ND	250	"								
Bis(2-chloroethoxy)methane	ND	250	"								
Bis(2-chloroethyl)ether	ND	250	"								
Bis(2-chloroisopropyl)ether	ND	250	"								
2-Chloronaphthalene	ND	250	"								
2-Chlorophenol	ND	250	"								
4-Chlorophenyl phenyl ether	ND	250	"								
Chrysene	ND	250	"								
Dibenzo(a,h)anthracene	ND	250	"								
Dibenzofuran	ND	250	"								
Di-n-butyl phthalate	ND	250	"								
3,3'-Dichlorobenzidine	ND	250	"								
2,4-Dichlorophenol	ND	250	"								
Diethyl phthalate	ND	250	"								
2,4-Dimethylphenol	ND	250	"								
Dimethyl phthalate	ND	250	"								
4,6-Dinitro-2-methylphenol	ND	500	"								
2,4-Dinitrophenol	ND	500	"								
2,6-Dinitrotoluene	ND	250	"								
2,4-Dinitrotoluene	ND	250	"								
Di-n-octyl phthalate	ND	250	"								
Bis(2-ethylhexyl)phthalate	ND	250	"								
Fluoranthene	ND	250	"								
Fluorene	ND	250	"								
Hexachlorobenzene	ND	250	"								
Hexachlorobutadiene	ND	250	"								
Hexachlorocyclopentadiene	ND	250	"								
Hexachloroethane	ND	250	"								
Indeno(1,2,3-cd)pyrene	ND	250	"								
Isophorone	ND	250	"								
1-Methylnaphthalene	ND	250	"								
2-Methylnaphthalene	ND	250	"								
2-Methylphenol	ND	250	"								
3- & 4-Methylphenols	ND	250	"								
Naphthalene	ND	250	"								
3-Nitroaniline	ND	250	"								
4-Nitroaniline	ND	250	"								
2-Nitroaniline	ND	250	"								
Nitrobenzene	ND	250	"								



Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF30054 - EPA 3545A

Blank (BF30054-BLK1)

Prepared: 06/03/2013 Analyzed: 06/04/2013

2-Nitrophenol	ND	250	ug/kg wet								
4-Nitrophenol	ND	250	"								
N-nitroso-di-n-propylamine	ND	250	"								
N-Nitrosodiphenylamine	ND	250	"								
Pentachloronitrobenzene	ND	250	"								
Pentachlorophenol	ND	250	"								
Phenanthrene	ND	250	"								
Phenol	ND	250	"								
Pyrene	ND	250	"								
Pyridine	ND	250	"								
1,2,4,5-tetrachlorobenzene	ND	250	"								
1,2,4-Trichlorobenzene	ND	250	"								
2,4,6-Trichlorophenol	ND	250	"								
2,4,5-Trichlorophenol	ND	250	"								
<i>Surrogate: 2,4,6-Tribromophenol</i>	2930		"	3760		78.0	15-110				
<i>Surrogate: 2-Fluorobiphenyl</i>	1790		"	2510		71.3	30-130				
<i>Surrogate: 2-Fluorophenol</i>	3040		"	3740		81.4	15-110				
<i>Surrogate: Nitrobenzene-d5</i>	1760		"	2500		70.7	30-130				
<i>Surrogate: Phenol-d5</i>	2910		"	3740		77.8	15-110				
<i>Surrogate: Terphenyl-d14</i>	1860		"	2500		74.6	30-130				

LCS (BF30054-BS1)

Prepared: 06/03/2013 Analyzed: 06/04/2013

Acenaphthene	2190	250	ug/kg wet	2500		87.7	40-140				
Acenaphthylene	2090	250	"	2500		83.6	40-140				
Aniline	1860	250	"	2500		74.4	40-140				
Anthracene	2170	250	"	2500		86.6	40-140				
Benzo(a)anthracene	2360	250	"	2500		94.6	40-140				
Benzo(a)pyrene	2610	250	"	2500		104	40-140				
Benzo(b)fluoranthene	2780	250	"	2500		111	40-140				
Benzo(g,h,i)perylene	908	250	"	2500		36.3	40-140	Low Bias			
Benzo(k)fluoranthene	2560	250	"	2500		102	40-140				
Benzyl butyl phthalate	2540	250	"	2500		102	40-140				
4-Bromophenyl phenyl ether	2240	250	"	2500		89.8	40-140				
4-Chloro-3-methylphenol	2080	250	"	2500		83.0	30-130				
4-Chloroaniline	2340	250	"	2500		93.6	40-140				
Bis(2-chloroethoxy)methane	2090	250	"	2500		83.6	40-140				
Bis(2-chloroethyl)ether	2200	250	"	2500		88.1	40-140				
Bis(2-chloroisopropyl)ether	3730	250	"	2500		149	40-140	High Bias			
2-Chloronaphthalene	2010	250	"	2500		80.4	40-140				
2-Chlorophenol	2370	250	"	2500		94.9	30-130				
4-Chlorophenyl phenyl ether	2050	250	"	2500		82.1	40-140				
Chrysene	2340	250	"	2500		93.5	40-140				
Dibenzo(a,h)anthracene	1320	250	"	2500		52.6	40-140				
Dibenzofuran	2200	250	"	2500		88.0	40-140				
Di-n-butyl phthalate	2300	250	"	2500		91.9	40-140				
3,3'-Dichlorobenzidine	2630	250	"	2500		105	40-140				
2,4-Dichlorophenol	2420	250	"	2500		96.8	30-130				
Diethyl phthalate	2340	250	"	2500		93.4	40-140				
2,4-Dimethylphenol	2100	250	"	2500		84.0	30-130				
Dimethyl phthalate	2290	250	"	2500		91.6	40-140				
4,6-Dinitro-2-methylphenol	2370	500	"	2500		94.9	30-130				



Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit

Batch BF30054 - EPA 3545A

LCS (BF30054-BS1)

Prepared: 06/03/2013 Analyzed: 06/04/2013

2,4-Dinitrophenol	3240	500	ug/kg wet	2500		130	30-130			
2,6-Dinitrotoluene	2420	250	"	2500		96.7	40-140			
2,4-Dinitrotoluene	2390	250	"	2500		95.5	40-140			
Di-n-octyl phthalate	2970	250	"	2500		119	40-140			
Bis(2-ethylhexyl)phthalate	2430	250	"	2500		97.3	40-140			
Fluoranthene	2390	250	"	2500		95.8	40-140			
Fluorene	2130	250	"	2500		85.3	40-140			
Hexachlorobenzene	2430	250	"	2500		97.3	40-140			
Hexachlorobutadiene	2460	250	"	2500		98.4	40-140			
Hexachlorocyclopentadiene	2180	250	"	2500		87.4	40-140			
Hexachloroethane	2040	250	"	2500		81.4	40-140			
Indeno(1,2,3-cd)pyrene	1220	250	"	2500		48.7	40-140			
Isophorone	2300	250	"	2500		92.0	40-140			
1-Methylnaphthalene	ND	250	"	2500			40-140		Low Bias	
2-Methylnaphthalene	2160	250	"	2500		86.6	40-140			
2-Methylphenol	ND	250	"	2500			30-130		Low Bias	
3- & 4-Methylphenols	1940	250	"	2500		77.7	30-130			
Naphthalene	2180	250	"	2500		87.3	40-140			
3-Nitroaniline	2300	250	"	2500		92.0	40-140			
4-Nitroaniline	1910	250	"	2500		76.6	40-140			
2-Nitroaniline	2350	250	"	2500		94.1	40-140			
Nitrobenzene	2170	250	"	2500		86.9	40-140			
2-Nitrophenol	2290	250	"	2500		91.7	30-130			
4-Nitrophenol	1940	250	"	2500		77.7	30-130			
N-nitroso-di-n-propylamine	ND	250	"	2500			40-140		Low Bias	
N-Nitrosodiphenylamine	2550	250	"	2500		102	40-140			
Pentachloronitrobenzene	2680	250	"	2500		107	40-140			
Pentachlorophenol	3770	250	"	2500		151	30-130		High Bias	
Phenanthrene	2250	250	"	2500		90.2	40-140			
Phenol	2030	250	"	2500		81.3	30-130			
Pyrene	2470	250	"	2500		99.0	40-140			
Pyridine	1670	250	"	2500		66.7	40-140			
1,2,4,5-tetrachlorobenzene	2420	250	"	2500		96.9	40-140			
1,2,4-Trichlorobenzene	2390	250	"	2500		95.6	40-140			
2,4,6-Trichlorophenol	2370	250	"	2500		95.0	30-130			
2,4,5-Trichlorophenol	2220	250	"	2500		88.6	30-130			
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>3710</i>		<i>"</i>	<i>3760</i>		<i>98.8</i>	<i>15-110</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>2060</i>		<i>"</i>	<i>2510</i>		<i>82.0</i>	<i>30-130</i>			
<i>Surrogate: 2-Fluorophenol</i>	<i>3480</i>		<i>"</i>	<i>3740</i>		<i>93.1</i>	<i>15-110</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>2090</i>		<i>"</i>	<i>2500</i>		<i>83.8</i>	<i>30-130</i>			
<i>Surrogate: Phenol-d5</i>	<i>3320</i>		<i>"</i>	<i>3740</i>		<i>88.6</i>	<i>15-110</i>			
<i>Surrogate: Terphenyl-d14</i>	<i>2460</i>		<i>"</i>	<i>2500</i>		<i>98.2</i>	<i>30-130</i>			



Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF30054 - EPA 3545A

LCS Dup (BF30054-BSD1)

Prepared: 06/03/2013 Analyzed: 06/04/2013

Acenaphthene	1960	250	ug/kg wet	2500		78.2	40-140		11.4	30	
Acenaphthylene	1850	250	"	2500		73.9	40-140		12.3	30	
Aniline	1700	250	"	2500		68.0	40-140		8.93	30	
Anthracene	1890	250	"	2500		75.5	40-140		13.8	30	
Benzo(a)anthracene	2060	250	"	2500		82.6	40-140		13.5	30	
Benzo(a)pyrene	2310	250	"	2500		92.4	40-140		12.2	30	
Benzo(b)fluoranthene	2390	250	"	2500		95.5	40-140		15.0	30	
Benzo(g,h,i)perylene	792	250	"	2500		31.7	40-140	Low Bias	13.7	30	
Benzo(k)fluoranthene	2270	250	"	2500		90.8	40-140		12.0	30	
Benzyl butyl phthalate	2180	250	"	2500		87.2	40-140		15.3	30	
4-Bromophenyl phenyl ether	2000	250	"	2500		80.1	40-140		11.4	30	
4-Chloro-3-methylphenol	1890	250	"	2500		75.8	30-130		9.12	30	
4-Chloroaniline	2320	250	"	2500		92.6	40-140		1.07	30	
Bis(2-chloroethoxy)methane	1890	250	"	2500		75.8	40-140		9.79	30	
Bis(2-chloroethyl)ether	1990	250	"	2500		79.7	40-140		10.1	30	
Bis(2-chloroisopropyl)ether	3400	250	"	2500		136	40-140		9.20	30	
2-Chloronaphthalene	1810	250	"	2500		72.4	40-140		10.5	30	
2-Chlorophenol	2170	250	"	2500		86.6	30-130		9.10	30	
4-Chlorophenyl phenyl ether	1870	250	"	2500		74.6	40-140		9.57	30	
Chrysene	2050	250	"	2500		81.8	40-140		13.3	30	
Dibenzo(a,h)anthracene	1160	250	"	2500		46.5	40-140		12.3	30	
Dibenzofuran	1950	250	"	2500		77.9	40-140		12.2	30	
Di-n-butyl phthalate	2000	250	"	2500		79.8	40-140		14.1	30	
3,3'-Dichlorobenzidine	2380	250	"	2500		95.2	40-140		10.0	30	
2,4-Dichlorophenol	2210	250	"	2500		88.3	30-130		9.25	30	
Diethyl phthalate	2050	250	"	2500		81.9	40-140		13.1	30	
2,4-Dimethylphenol	1930	250	"	2500		77.3	30-130		8.34	30	
Dimethyl phthalate	2020	250	"	2500		80.9	40-140		12.4	30	
4,6-Dinitro-2-methylphenol	2130	500	"	2500		85.1	30-130		10.9	30	
2,4-Dinitrophenol	2770	500	"	2500		111	30-130		15.8	30	
2,6-Dinitrotoluene	2140	250	"	2500		85.5	40-140		12.3	30	
2,4-Dinitrotoluene	2060	250	"	2500		82.4	40-140		14.8	30	
Di-n-octyl phthalate	2610	250	"	2500		104	40-140		13.1	30	
Bis(2-ethylhexyl)phthalate	2090	250	"	2500		83.6	40-140		15.2	30	
Fluoranthene	2060	250	"	2500		82.4	40-140		14.9	30	
Fluorene	1920	250	"	2500		76.7	40-140		10.7	30	
Hexachlorobenzene	2110	250	"	2500		84.5	40-140		14.1	30	
Hexachlorobutadiene	2260	250	"	2500		90.4	40-140		8.50	30	
Hexachlorocyclopentadiene	1890	250	"	2500		75.7	40-140		14.3	30	
Hexachloroethane	1840	250	"	2500		73.4	40-140		10.4	30	
Indeno(1,2,3-cd)pyrene	1060	250	"	2500		42.5	40-140		13.5	30	
Isophorone	2070	250	"	2500		82.6	40-140		10.7	30	
1-Methylnaphthalene	ND	250	"	2500			40-140	Low Bias		30	
2-Methylnaphthalene	1980	250	"	2500		79.2	40-140		8.86	30	
2-Methylphenol	1900	250	"	2500		76.0	30-130			30	
3- & 4-Methylphenols	1630	250	"	2500		65.0	30-130		17.8	30	
Naphthalene	1980	250	"	2500		79.2	40-140		9.78	30	
3-Nitroaniline	2080	250	"	2500		83.2	40-140		10.0	30	
4-Nitroaniline	1610	250	"	2500		64.3	40-140		17.4	30	
2-Nitroaniline	2070	250	"	2500		82.8	40-140		12.8	30	
Nitrobenzene	1950	250	"	2500		78.1	40-140		10.7	30	



Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF30054 - EPA 3545A

LCS Dup (BF30054-BSD1)

Prepared: 06/03/2013 Analyzed: 06/04/2013

2-Nitrophenol	2130	250	ug/kg wet	2500		85.3	30-130		7.21	30	
4-Nitrophenol	2200	250	"	2500		88.2	30-130		12.7	30	
N-nitroso-di-n-propylamine	1900	250	"	2500		76.0	40-140			30	
N-Nitrosodiphenylamine	2280	250	"	2500		91.1	40-140		11.2	30	
Pentachloronitrobenzene	2350	250	"	2500		94.0	40-140		13.1	30	
Pentachlorophenol	3180	250	"	2500		127	30-130		17.1	30	
Phenanthrene	1960	250	"	2500		78.5	40-140		13.8	30	
Phenol	1870	250	"	2500		74.9	30-130		8.17	30	
Pyrene	2140	250	"	2500		85.7	40-140		14.4	30	
Pyridine	1760	250	"	2500		70.2	40-140		5.20	30	
1,2,4,5-tetrachlorobenzene	2160	250	"	2500		86.3	40-140		11.5	30	
1,2,4-Trichlorobenzene	2180	250	"	2500		87.3	40-140		9.06	30	
2,4,6-Trichlorophenol	2140	250	"	2500		85.4	30-130		10.6	30	
2,4,5-Trichlorophenol	1960	250	"	2500		78.4	30-130		12.2	30	
Surrogate: 2,4,6-Tribromophenol	3660		"	3760		97.4	15-110				
Surrogate: 2-Fluorobiphenyl	2000		"	2510		79.6	30-130				
Surrogate: 2-Fluorophenol	3540		"	3740		94.6	15-110				
Surrogate: Nitrobenzene-d5	2090		"	2500		83.9	30-130				
Surrogate: Phenol-d5	3290		"	3740		87.8	15-110				
Surrogate: Terphenyl-d14	2310		"	2500		92.4	30-130				

Matrix Spike (BF30054-MS1)

*Source sample: 13F0008-11 (ELB-37 0.25-0.5)

Prepared: 06/03/2013 Analyzed: 06/04/2013

Acenaphthene	2780	389	ug/kg dry	3890	ND	71.4	40-140				
Acenaphthylene	2640	389	"	3890	ND	67.8	40-140				
Aniline	1510	389	"	3890	ND	38.8	40-140	Low Bias			
Anthracene	2620	389	"	3890	ND	67.4	40-140				
Benzo(a)anthracene	3210	389	"	3890	ND	82.5	40-140				
Benzo(a)pyrene	3520	389	"	3890	ND	90.5	40-140				
Benzo(b)fluoranthene	3900	389	"	3890	ND	100	40-140				
Benzo(g,h,i)perylene	671	389	"	3890	ND	17.2	40-140	Low Bias			
Benzo(k)fluoranthene	3470	389	"	3890	ND	89.2	40-140				
Benzyl butyl phthalate	3230	389	"	3890	ND	83.1	40-140				
4-Bromophenyl phenyl ether	2700	389	"	3890	ND	69.4	40-140				
4-Chloro-3-methylphenol	2590	389	"	3890	ND	66.6	30-130				
4-Chloroaniline	2580	389	"	3890	ND	66.4	40-140				
Bis(2-chloroethoxy)methane	2380	389	"	3890	ND	61.2	40-140				
Bis(2-chloroethyl)ether	2430	389	"	3890	ND	62.4	40-140				
Bis(2-chloroisopropyl)ether	3970	389	"	3890	ND	102	40-140				
2-Chloronaphthalene	2550	389	"	3890	ND	65.5	40-140				
2-Chlorophenol	2660	389	"	3890	ND	68.5	30-130				
4-Chlorophenyl phenyl ether	2800	389	"	3890	ND	71.9	40-140				
Chrysene	3110	389	"	3890	ND	79.8	40-140				
Dibenzo(a,h)anthracene	1170	389	"	3890	ND	30.0	40-140	Low Bias			
Dibenzofuran	2790	389	"	3890	ND	71.8	40-140				
Di-n-butyl phthalate	3010	389	"	3890	ND	77.5	40-140				
3,3'-Dichlorobenzidine	ND	389	"	3890	ND		40-140	Low Bias			
2,4-Dichlorophenol	2860	389	"	3890	ND	73.5	30-130				
Diethyl phthalate	2760	389	"	3890	ND	70.9	40-140				
2,4-Dimethylphenol	2490	389	"	3890	ND	64.0	30-130				
Dimethyl phthalate	2780	389	"	3890	ND	71.3	40-140				
4,6-Dinitro-2-methylphenol	2660	778	"	3890	ND	68.4	30-130				



Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit	Units							Level	Result

Batch BF30054 - EPA 3545A

Matrix Spike (BF30054-MS1) *Source sample: 13F0008-11 (ELB-37 0.25-0.5) Prepared: 06/03/2013 Analyzed: 06/04/2013

2,4-Dinitrophenol	3460	778	ug/kg dry	3890	ND	88.8	30-130				
2,6-Dinitrotoluene	2970	389	"	3890	ND	76.2	40-140				
2,4-Dinitrotoluene	2890	389	"	3890	ND	74.4	40-140				
Di-n-octyl phthalate	4350	389	"	3890	ND	112	40-140				
Bis(2-ethylhexyl)phthalate	3340	389	"	3890	ND	85.8	40-140				
Fluoranthene	3520	389	"	3890	ND	90.3	40-140				
Fluorene	2860	389	"	3890	ND	73.5	40-140				
Hexachlorobenzene	3110	389	"	3890	ND	79.9	40-140				
Hexachlorobutadiene	2650	389	"	3890	ND	68.1	40-140				
Hexachlorocyclopentadiene	771	389	"	3890	ND	19.8	40-140	Low Bias			
Hexachloroethane	1960	389	"	3890	ND	50.3	40-140				
Indeno(1,2,3-cd)pyrene	1050	389	"	3890	ND	26.9	40-140	Low Bias			
Isophorone	2600	389	"	3890	ND	66.9	40-140				
1-Methylnaphthalene	ND	389	"	3890	ND		40-140	Low Bias			
2-Methylnaphthalene	2580	389	"	3890	ND	66.3	40-140				
2-Methylphenol	2420	389	"	3890	ND	62.2	30-130				
3- & 4-Methylphenols	2250	389	"	3890	ND	57.7	30-130				
Naphthalene	2520	389	"	3890	ND	64.7	40-140				
3-Nitroaniline	2670	389	"	3890	ND	68.5	40-140				
4-Nitroaniline	2240	389	"	3890	ND	57.6	40-140				
2-Nitroaniline	3070	389	"	3890	ND	78.8	40-140				
Nitrobenzene	2450	389	"	3890	ND	63.1	40-140				
2-Nitrophenol	2550	389	"	3890	ND	65.5	30-130				
4-Nitrophenol	3610	389	"	3890	ND	92.8	30-130				
N-nitroso-di-n-propylamine	2670	389	"	3890	ND	68.7	40-140				
N-Nitrosodiphenylamine	3020	389	"	3890	ND	77.6	40-140				
Pentachloronitrobenzene	3370	389	"	3890	ND	86.6	40-140				
Pentachlorophenol	4680	389	"	3890	ND	120	30-130				
Phenanthrene	3020	389	"	3890	ND	77.6	40-140				
Phenol	2530	389	"	3890	ND	65.0	30-130				
Pyrene	3610	389	"	3890	ND	92.9	40-140				
Pyridine	2090	389	"	3890	ND	53.7	40-140				
1,2,4,5-tetrachlorobenzene	2920	389	"	3890	ND	75.1	40-140				
1,2,4-Trichlorobenzene	2590	389	"	3890	ND	66.4	40-140				
2,4,6-Trichlorophenol	2980	389	"	3890	ND	76.5	30-130				
2,4,5-Trichlorophenol	2880	389	"	3890	ND	74.1	30-130				
Surrogate: 2,4,6-Tribromophenol	3820		"	5850		65.3	15-110				
Surrogate: 2-Fluorobiphenyl	2280		"	3910		58.4	30-130				
Surrogate: 2-Fluorophenol	3730		"	5820		64.0	15-110				
Surrogate: Nitrobenzene-d5	2190		"	3880		56.4	30-130				
Surrogate: Phenol-d5	3900		"	5830		66.9	15-110				
Surrogate: Terphenyl-d14	3040		"	3890		78.1	30-130				



Gas Chromatography/Flame Ionization Determination - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30048 - EPA 3545A											
Blank (BF30048-BLK1)										Prepared: 06/03/2013 Analyzed: 06/04/2013	
ETPH (Extractable Total Petroleum Hydrocarbons)	ND	10.0	mg/kg wet								
Surrogate: 1-Chlorooctadecane	9.58		"	10.0		95.8	40.5-152				
LCS (BF30048-BS1)										Prepared: 06/03/2013 Analyzed: 06/04/2013	
ETPH (Extractable Total Petroleum Hydrocarbons)	75.3	10.0	mg/kg wet	75.0		100	60-120				
Surrogate: 1-Chlorooctadecane	10.0		"	10.0		100	40.5-152				
LCS Dup (BF30048-BSD1)										Prepared: 06/03/2013 Analyzed: 06/04/2013	
ETPH (Extractable Total Petroleum Hydrocarbons)	75.0	10.0	mg/kg wet	75.0		100	60-120	0.399	30		
Surrogate: 1-Chlorooctadecane	10.2		"	10.0		102	40.5-152				
Matrix Spike (BF30048-MS1)										Prepared: 06/03/2013 Analyzed: 06/04/2013	
*Source sample: 13F0008-11 (ELB-37 0.25-0.5)											
ETPH (Extractable Total Petroleum Hydrocarbons)	376	15.6	mg/kg dry	117	62.8	268	50-150	High Bias			
Surrogate: 1-Chlorooctadecane	15.0		"	15.6		96.6	40.5-152				



SPLP Extraction by EPA SW-846 1312 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF30039 - EPA SW 846-1312 SPLP for Extr. for Metals

Blank (BF30039-BLK1)

Prepared: 06/03/2013 Analyzed: 06/04/2013

SPLP Extraction	Completed	1.00	N/A								
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Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF30051 - EPA 3050B

Blank (BF30051-BLK1)

Prepared & Analyzed: 06/03/2013

Arsenic	ND	1.00	mg/kg wet								
Barium	ND	0.500	"								
Cadmium	ND	0.500	"								
Chromium	ND	0.500	"								
Lead	ND	0.300	"								
Lead	ND	0.300	"								
Selenium	ND	0.500	"								
Silver	ND	0.500	"								

Duplicate (BF30051-DUP1)

*Source sample: 13F0008-11 (ELB-37 0.25-0.5)

Prepared & Analyzed: 06/03/2013

Arsenic	5.96	1.56	mg/kg dry	311	5.90	101	75-125		0.975	35	
Barium	149	0.778	"	311	148	104	75-125		0.292	35	
Cadmium	ND	0.778	"	7.78	ND	95.6	75-125			35	
Chromium	22.2	0.778	"	31.1	22.0	98.6	75-125		0.743	35	
Lead	694	0.467	"	77.8	691	123	75-125		0.337	35	
Lead	694	0.467	"	77.8	691	123	75-125		0.337	35	
Selenium	1.58	0.778	"	77.8	1.68				5.85	35	
Silver	ND	0.778	"	7.78	ND	32.7	75-125			35	

Matrix Spike (BF30051-MS1)

*Source sample: 13F0008-11 (ELB-37 0.25-0.5)

Prepared & Analyzed: 06/03/2013

Arsenic	321	1.56	mg/kg dry	311	5.90	101	75-125				
Barium	473	0.778	"	311	148	104	75-125				
Cadmium	7.44	0.778	"	7.78	ND	95.6	75-125				
Chromium	52.7	0.778	"	31.1	22.0	98.6	75-125				
Lead	787	0.467	"	77.8	691	123	75-125				
Lead	787	0.467	"	77.8	691	123	75-125				
Silver	2.55	0.778	"	7.78	ND	32.7	75-125	Low Bias			



Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF30051 - EPA 3050B

Reference (BF30051-SRM1)

Prepared & Analyzed: 06/03/2013

Arsenic	88.6	1.00	mg/kg wet	94.5		93.7	69.2-131				
Barium	155	0.500	"	166		93.1	72.9-127				
Cadmium	52.8	0.500	"	59.9		88.1	73.1-127				
Chromium	60.6	0.500	"	69.3		87.4	68.4-132				
Lead	82.6	0.300	"	91.7		90.0	70.2-130				
Lead	82.6	0.300	"	91.7		90.0	70.2-130				
Selenium	151	0.500	"	159		94.8	67.9-133				
Silver	29.1	0.500	"	33.9		85.9	65.5-135				



SPLP Metals by EPA SW846-1312/6010B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30151 - EPA 3010A											
Blank (BF30151-BLK1)											
Lead	ND	0.00300	mg/L								
Prepared: 06/04/2013 Analyzed: 06/05/2013											
Blank (BF30151-BLK2)											
Lead	ND	0.00300	mg/L								
Prepared: 06/04/2013 Analyzed: 06/05/2013											
Duplicate (BF30151-DUP1)											
*Source sample: 13F0008-11 (ELB-37 0.25-0.5)											
Lead	0.0651	0.00300	mg/L		0.0652				0.111	20	
Prepared: 06/04/2013 Analyzed: 06/05/2013											
Reference (BF30151-SRM1)											
Lead	1.48	0.00300	mg/L	1.48		100	87.8-111				



Mercury by EPA 7000/200 Series Methods - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30019 - EPA SW846-7471											
Blank (BF30019-BLK1)											
									Prepared & Analyzed: 06/03/2013		
Mercury	ND	0.0330	mg/kg wet								
LCS (BF30019-BS1)											
									Prepared & Analyzed: 06/03/2013		
Mercury	3.08		mg/kg	3.73		82.6	67.6-131				
Duplicate (BF30019-DUP2)											
	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)										Prepared & Analyzed: 06/03/2013
Mercury	ND	0.0514	mg/kg dry		ND						35
Matrix Spike (BF30019-MS2)											
	*Source sample: 13F0008-11 (ELB-37 0.25-0.5)										Prepared & Analyzed: 06/03/2013
Mercury	0.320		mg/kg	0.333	ND	96.1	75-125				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
13F0008-08	ELB-34 0.25-0.5	4 oz. WM Clear Glass Cool to 4° C
13F0008-09	ELB-35 0.25-0.5	Encore Sampler
13F0008-10	ELB-36 0.25-0.5	Encore Sampler
13F0008-11	ELB-37 0.25-0.5	Encore Sampler
13F0008-13	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Notes and Definitions

VOA-CONTNON-COMPLIANT- the container(s) provided by the client for soil volatiles do not meet the requirements of EPA SW846-5035A or NYSDOH ELAP. Results reported below 200 ug/kg may be biased low due to samples not being collected according to EPA SW846 5035A.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

QM-01 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

QL-02 This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

EXT-COMP Completed

ND Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.

RL REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.

MDL METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.

NR Not reported

RPD Relative Percent Difference

Wet The data has been reported on an as-received (wet weight) basis

Low Bias Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.

For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.



If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the MDL, with values between the MDL and the RL being "J" flagged as estimated results.



YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

Page 1 of 2

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. **13 F0008**

YOUR Information Company: <u>Langston Engineering</u> Address: <u>555 Long Wharf Dr.</u> <u>New Haven, Ct 06511</u> Phone No: <u>203-562-5771</u> Contact Person: <u>Kathleen Basing</u> E-Mail Address: <u>kathleen@langstoneng.com</u>		Report To: Company: <u>Same</u> Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		Invoice To: Company: <u>Same</u> Address: _____ Phone No. _____ Attention: _____ E-Mail Address: _____		YOUR Project ID <u>140068605</u> Purchase Order No. _____		Turn-Around Time <input type="checkbox"/> RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input checked="" type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day Standard(5-7 Days) <input type="checkbox"/>		Report Type <input type="checkbox"/> Summary Report <input type="checkbox"/> Summary w/ QA Summary <input type="checkbox"/> CT RCP Package <input checked="" type="checkbox"/> CTRCP DQA/DUE Pkg <input type="checkbox"/> NY ASP A Package <input type="checkbox"/> NY ASP B Package <input type="checkbox"/> NJDEP Red. Deliv. <input type="checkbox"/> <u>Electronic Data Deliverables (EDD)</u> <input type="checkbox"/> Simple Excel <input checked="" type="checkbox"/> <u>and PDF</u> <input type="checkbox"/> NYSDEC Equils <input type="checkbox"/> EQuIS (std) <input type="checkbox"/> EZ-EDD (EQuIS) <input type="checkbox"/> NJDEP SRP HazSite EDD <input type="checkbox"/> GIS/KEY (std) <input type="checkbox"/> Other <input type="checkbox"/> York Regulatory Comparison <input type="checkbox"/> Excel Spreadsheet Compare to the following Reg. (please fill in):			
MATRIX Codes S - soil Other - specify (oil, etc.) WW - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor		Volatiles ST260 (full) 624 STARS list BTEX MTBE TCL list TAGM list CT RCP list Arom. only 502.2 Halog. only NJDEP list App. IX list SPL Par TCLP 608 PCB		Semi-Vols, Pest/Chlorinated 6270-625 STARS list BN Only Acids Only PAH list App. IX Site Spec. CT RCP list NJDEP list App. IX TCLP BNA 608 PCB SPL Par TCLP		Metals RCRA 8 PP13 list TAL CT15 list TAGM list NJDEP list Total Dissolved SPL Par TCLP Inds. Metals LIST Below		Misc. Org. TPH GRO TPH DRO TAL NY 310-13 TPH 1664 Air TO14A Air TO15 Air STARS Air VPH Air TICs Methane Helium		Full Lists Pri. Poll. TCL Organics TAL Mecon Full TCLP Full App. IX Part 360-Residue Part 360-Residue Part 360-Residue Part 360-Residue NYDEP-Spec NYDEP-Cover TAGM Silica		Misc. Corrosivity Reactivity Ignitability Flash Point Sieve Anal. Heterotrophs TOX BTU/lb Aquatic Tox. NYDEP-Spec NYDEP-Cover Asbestos Silica	

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Kyle Zelinski
 Samples Collected/Authorized By (Signature)
Kyle Zelinski
 Name (printed)

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
ELB-23 0.5-1	5/31/13 07:30	S	Total Lead, SPLP Lead	1-1oz glass
ELB-23 1.5-2	07:30		*	
HA-4A 1.5-2	08:00			
HA-5A 1.5-2	08:05			
ELB-32 0.5-1	08:20		*	
ELB-32 1.5-2	08:30			
ELB-33 0.5-1	08:35			1-1oz glass
ELB-3A 0.25-0.5	10:00		Total Lead, SPLP Lead, VOCs (BTEX), SVOC (BTEX), CTETAP, RCPA-B, Metab	1-1oz glass
ELB-35 0.25-0.5	09:20			1-1oz glass, 1-9oz glass, 3-EMVARS
ELB-36 0.25-0.5	09:40			

Temperature on Receipt
4.1 °C

Preservation
 4°C _____ Frozen _____ HCl _____ MeOH _____ HNO₃ _____ H₂SO₄ _____ NaOH _____
 ZnAc _____ Ascorbic Acid _____ Other _____

Special Instructions
 Field Filled
 Lab to Filter
Langston 5/31/13
 Samples Relinquished By _____ Date/Time _____
 Samples Relinquished By _____ Date/Time _____

Comments
 s must meet CDEEP RSRs
 case provide DQA spreadsheet
 * = HOLD Analyses until authorized by Langston



Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive

New Haven CT, 06511

Attention: Kathleen Blessing

Report Date: 06/11/2013

Client Project ID: 140068605

York Project (SDG) No.: 13F0185

CT Cert. No. PH-0723

New Jersey Cert. No. CT-005



New York Cert. No. 10854

PA Cert. No. 68-04440

Report Date: 06/11/2013
Client Project ID: 140068605
York Project (SDG) No.: 13F0185

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kathleen Blessing

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 31, 2013 and listed below. The project was identified as your project: **140068605**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
13F0185-01	ELB-15 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-02	ELB-16 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-03	ELB-17 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-04	ELB-18 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-05	ELB-19 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-06	ELB-22 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-07	ELB-27 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-08	ELB-29 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-09	ELB-28 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-10	ELB-31 1.5-2	Soil	05/30/2013	05/31/2013
13F0185-11	ELB-23 1.5-2	Soil	05/31/2013	05/31/2013
13F0185-12	ELB-32 1.5-2	Soil	05/31/2013	05/31/2013

General Notes for York Project (SDG) No.: 13F0185

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 06/11/2013

YORK



Sample Information

Client Sample ID: ELB-15 1.5-2 **York Sample ID:** 13F0185-01
York Project (SDG) No. 13F0185 **Client Project ID** 140068605 **Matrix** Soil **Collection Date/Time** May 30, 2013 9:27 am **Date Received** 05/31/2013

SPLP Extraction for METALS EPA 1312

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Sample Prepared by Method: EPA 3050B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	11.9		mg/kg dry	0.362	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:32	MW

Lead, SPLP by EPA 6010

Sample Prepared by Method: EPA 3010A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 13:42	MW

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	82.9		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-16 1.5-2 **York Sample ID:** 13F0185-02
York Project (SDG) No. 13F0185 **Client Project ID** 140068605 **Matrix** Soil **Collection Date/Time** May 30, 2013 9:36 am **Date Received** 05/31/2013

SPLP Extraction for METALS EPA 1312

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Sample Prepared by Method: EPA 3050B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	9.93		mg/kg dry	0.347	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:37	MW

Lead, SPLP by EPA 6010

Sample Prepared by Method: EPA 3010A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0141		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 13:47	MW



Sample Information

Client Sample ID: ELB-16 1.5-2

York Sample ID: 13F0185-02

York Project (SDG) No.
13F0185

Client Project ID
140068605

Matrix
Soil

Collection Date/Time
May 30, 2013 9:36 am

Date Received
05/31/2013

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	86.6		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-17 1.5-2

York Sample ID: 13F0185-03

York Project (SDG) No.
13F0185

Client Project ID
140068605

Matrix
Soil

Collection Date/Time
May 30, 2013 9:52 am

Date Received
05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	56.1		mg/kg dry	0.364	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:42	MW

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.0136		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 13:52	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	82.3		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-18 1.5-2

York Sample ID: 13F0185-04

York Project (SDG) No.
13F0185

Client Project ID
140068605

Matrix
Soil

Collection Date/Time
May 30, 2013 10:19 am

Date Received
05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK



Sample Information

Client Sample ID: ELB-18 1.5-2

York Sample ID: 13F0185-04

York Project (SDG) No. 13F0185 Client Project ID 140068605 Matrix Soil Collection Date/Time May 30, 2013 10:19 am Date Received 05/31/2013

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	15.8		mg/kg dry	0.355	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:47	MW

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 13:56	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	84.5		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-19 1.5-2

York Sample ID: 13F0185-05

York Project (SDG) No. 13F0185 Client Project ID 140068605 Matrix Soil Collection Date/Time May 30, 2013 10:29 am Date Received 05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	25.9		mg/kg dry	0.363	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:51	MW

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.00696		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:01	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	82.7		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD



Sample Information

Client Sample ID: ELB-22 1.5-2

York Sample ID: 13F0185-06

York Project (SDG) No.
13F0185

Client Project ID
140068605

Matrix
Soil

Collection Date/Time
May 30, 2013 11:06 am

Date Received
05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	13.6		mg/kg dry	0.362	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 11:56	MW

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	0.00681		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:31	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	82.9		%	0.100	1	SM 2540G	06/07/2013 08:16	06/10/2013 14:20	ALD

Sample Information

Client Sample ID: ELB-27 1.5-2

York Sample ID: 13F0185-07

York Project (SDG) No.
13F0185

Client Project ID
140068605

Matrix
Soil

Collection Date/Time
May 30, 2013 12:52 pm

Date Received
05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/kg dry	0.301	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 12:01	MW

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:36	MW



Sample Information

Client Sample ID: ELB-27 1.5-2 York Sample ID: 13F0185-07
York Project (SDG) No. 13F0185 Client Project ID 140068605 Matrix Soil Collection Date/Time May 30, 2013 12:52 pm Date Received 05/31/2013

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: % Solids, 99.6, SM 2540G, 06/10/2013 08:07, 06/10/2013 14:27, ALD

Sample Information

Client Sample ID: ELB-29 1.5-2 York Sample ID: 13F0185-08
York Project (SDG) No. 13F0185 Client Project ID 140068605 Matrix Soil Collection Date/Time May 30, 2013 1:15 pm Date Received 05/31/2013

SPLP Extraction for METALS EPA 1312. Table with 11 columns. Row 1: SPLP Extraction, Completed, N/A, 1.00, 1, EPA SW846-1312, 06/06/2013 17:19, 06/07/2013 12:22, KK

Lead by EPA 6010. Table with 11 columns. Row 1: Lead, 7.84, mg/kg dry, 0.324, 1, EPA SW846-6010B, 06/07/2013 10:01, 06/07/2013 12:18, MW

Lead, SPLP by EPA 6010. Table with 11 columns. Row 1: Lead, ND, mg/L, 0.00300, 1, EPA SW846-6010B, 06/07/2013 11:10, 06/07/2013 14:41, MW

Total Solids. Table with 11 columns. Row 1: % Solids, 92.6, SM 2540G, 06/10/2013 08:07, 06/10/2013 14:27, ALD

Sample Information

Client Sample ID: ELB-28 1.5-2 York Sample ID: 13F0185-09
York Project (SDG) No. 13F0185 Client Project ID 140068605 Matrix Soil Collection Date/Time May 30, 2013 1:50 pm Date Received 05/31/2013

SPLP Extraction for METALS EPA 1312. Table with 11 columns. Row 1: SPLP Extraction, Completed, N/A, 1.00, 1, EPA SW846-1312, 06/06/2013 17:19, 06/07/2013 12:22, KK



Sample Information

Client Sample ID: ELB-28 1.5-2

York Sample ID: 13F0185-09

York Project (SDG) No.
13F0185

Client Project ID
140068605

Matrix
Soil

Collection Date/Time
May 30, 2013 1:50 pm

Date Received
05/31/2013

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	3.67		mg/kg dry	0.317	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 12:23	MW

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:45	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	94.8		%	0.100	1	SM 2540G	06/10/2013 08:07	06/10/2013 14:27	ALD

Sample Information

Client Sample ID: ELB-31 1.5-2

York Sample ID: 13F0185-10

York Project (SDG) No.
13F0185

Client Project ID
140068605

Matrix
Soil

Collection Date/Time
May 30, 2013 2:18 pm

Date Received
05/31/2013

SPLP Extraction for METALS EPA 1312

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	SPLP Extraction	Completed		N/A	1.00	1	EPA SW846-1312	06/06/2013 17:19	06/07/2013 12:22	KK

Lead by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	1.38		mg/kg dry	0.316	1	EPA SW846-6010B	06/07/2013 10:01	06/07/2013 12:27	MW

Lead, SPLP by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	ND		mg/L	0.00300	1	EPA SW846-6010B	06/07/2013 11:10	06/07/2013 14:50	MW

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	95.1		%	0.100	1	SM 2540G	06/10/2013 08:07	06/10/2013 14:27	ALD



Sample Information

Client Sample ID: ELB-23 1.5-2 York Sample ID: 13F0185-11
York Project (SDG) No. 13F0185 Client Project ID 140068605 Matrix Soil Collection Date/Time May 31, 2013 7:30 am Date Received 05/31/2013

SPLP Extraction for METALS EPA 1312

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

Log-in Notes:

Sample Notes:

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: SPLP Extraction, Completed, N/A, 1.00, 1, EPA SW846-1312, 06/06/2013 17:19, 06/07/2013 12:22, KK

Lead by EPA 6010

Sample Prepared by Method: EPA 3050B

Log-in Notes:

Sample Notes:

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7439-92-1, Lead, 17.4, mg/kg dry, 0.346, 1, EPA SW846-6010B, 06/07/2013 10:01, 06/07/2013 12:44, MW

Lead, SPLP by EPA 6010

Sample Prepared by Method: EPA 3010A

Log-in Notes:

Sample Notes:

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7439-92-1, Lead, ND, mg/L, 0.00300, 1, EPA SW846-6010B, 06/07/2013 11:10, 06/07/2013 14:55, MW

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

Sample Notes:

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: solids, % Solids, 86.7, %, 0.100, 1, SM 2540G, 06/10/2013 08:07, 06/10/2013 14:27, ALD

Sample Information

Client Sample ID: ELB-32 1.5-2 York Sample ID: 13F0185-12
York Project (SDG) No. 13F0185 Client Project ID 140068605 Matrix Soil Collection Date/Time May 31, 2013 8:30 am Date Received 05/31/2013

SPLP Extraction for METALS EPA 1312

Sample Prepared by Method: EPA SW 846-1312 SPLP for Extr. for Metals

Log-in Notes:

Sample Notes:

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: SPLP Extraction, Completed, N/A, 1.00, 1, EPA SW846-1312, 06/06/2013 17:19, 06/07/2013 12:22, KK

Lead by EPA 6010

Sample Prepared by Method: EPA 3050B

Log-in Notes:

Sample Notes:

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7439-92-1, Lead, 677, mg/kg dry, 0.354, 1, EPA SW846-6010B, 06/07/2013 10:01, 06/07/2013 12:49, MW

Lead, SPLP by EPA 6010

Sample Prepared by Method: EPA 3010A

Log-in Notes:

Sample Notes:

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, RL, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row 1: 7439-92-1, Lead, 0.110, mg/L, 0.00300, 1, EPA SW846-6010B, 06/07/2013 11:10, 06/07/2013 15:00, MW



Sample Information

Client Sample ID: ELB-32 1.5-2

York Sample ID: 13F0185-12

York Project (SDG) No.
13F0185

Client Project ID
140068605

Matrix
Soil

Collection Date/Time
May 31, 2013 8:30 am

Date Received
05/31/2013

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	84.7		%	0.100	1	SM 2540G	06/10/2013 08:07	06/10/2013 14:27	ALD



REASONABLE CONFIDENCE PROTOCOL

LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: York Analytical Laboratories, Inc. Client: Langan Engineering & Environmental Serv
 Project Location: 140068605 Lab Project No.: 13F0185
 Laboratory Sample ID(s): 13F0185-01 - 13F0185-12 Sampling Date(s): 05/30/2013 - 05/31/2013
 RCP Methods Used: See Narrative and Method Reference Section of this Technical Report

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 RCPs)?	YES
1A	Were the method specified preservation and holding time requirements met?	YES
1B	VPH and EPH Methods only: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	NR
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were samples received at an appropriate temperature (<6°C)?	YES
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	NO
5A	Were reporting limits specified or referenced on the chain-of-custody?	YES
5B	Were these reporting limits met?	YES
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?	NO
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	YES

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 questions #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: Benjamin Gulizia Date: 06/11/2013





Case Narrative

Client: Langan Engineering & Environmental Services (CT)

Client Project ID: 140068605

Prepared for: Kathleen Blessing

Introduction

This Case Narrative applies to the following samples submitted to our laboratory on **5/31/2013 6:00:00 PM** :

ELB-15 1.5-2	Soil
ELB-16 1.5-2	Soil
ELB-17 1.5-2	Soil
ELB-18 1.5-2	Soil
ELB-19 1.5-2	Soil
ELB-22 1.5-2	Soil
ELB-23 1.5-2	Soil
ELB-27 1.5-2	Soil
ELB-28 1.5-2	Soil
ELB-29 1.5-2	Soil
ELB-31 1.5-2	Soil
ELB-32 1.5-2	Soil

The 12 sample(s) were received intact in a custody-sealed cooler unless otherwise noted. Upon receipt, the temperature of the cooler was determined. The cooler temperature was acceptable (2-6oC) and measured cooler 1 @ 4 C at time of receipt as measured by a NIST traceable digital infrared thermometer. Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

Preparation and analysis were conducted according to the SW-846 methods, as detailed in the sample information table, and the requirements of the State of Connecticut Reasonable Confidence Protocols (RCP).

Metals – Total (Lead)

No problems were encountered during analysis of the sample.

Batch QC

A Standard Reference Material and site-specific Matrix Spike/Dup set on sample “ELB-31 1.5-2” was as QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Method Blank

No analyte was detected at or above the RL in the method blank or leach blank.



Dilutions

No sample dilutions were required. All analyte reporting limits were met.

Metals – SPLP (Lead)

No problems were encountered during analysis of the sample.

Batch QC

A Standard Reference Material and site-specific Matrix Spike/Dup set on sample “ELB-19 1.5-2” was as QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Method Blank

No analyte was detected at or above the RL in the method blank or leach blank.

Dilutions

No sample dilutions were required. All analyte reporting limits were met.



Analytical Batch Summary

Batch ID: BF30287 **General Method:** SPLP Extraction by EPA SW-846 1312
Prep Method: EPA SW 846-1312 SPLP for Extr. for Metals

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13F0185-01	ELB-15 1.5-2	06/06/13	KK
13F0185-02	ELB-16 1.5-2	06/06/13	KK
13F0185-03	ELB-17 1.5-2	06/06/13	KK
13F0185-04	ELB-18 1.5-2	06/06/13	KK
13F0185-05	ELB-19 1.5-2	06/06/13	KK
13F0185-06	ELB-22 1.5-2	06/06/13	KK
13F0185-07	ELB-27 1.5-2	06/06/13	KK
13F0185-08	ELB-29 1.5-2	06/06/13	KK
13F0185-09	ELB-28 1.5-2	06/06/13	KK
13F0185-10	ELB-31 1.5-2	06/06/13	KK
13F0185-11	ELB-23 1.5-2	06/06/13	KK
13F0185-12	ELB-32 1.5-2	06/06/13	KK
BF30287-BLK1	Blank	06/06/13	KK

Batch ID: BF30299 **General Method:** Miscellaneous Physical/Conventional Chemistry Parameters
Prep Method: % Solids Prep

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13F0185-01	ELB-15 1.5-2	06/07/13	AMC
13F0185-02	ELB-16 1.5-2	06/07/13	AMC
13F0185-03	ELB-17 1.5-2	06/07/13	AMC
13F0185-04	ELB-18 1.5-2	06/07/13	AMC
13F0185-05	ELB-19 1.5-2	06/07/13	AMC
13F0185-06	ELB-22 1.5-2	06/07/13	AMC



Batch ID: BF30317 **General Method:** Metals by EPA 6000 Series Methods
Prep Method: EPA 3050B

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13F0185-01	ELB-15 1.5-2	06/07/13	MW
13F0185-02	ELB-16 1.5-2	06/07/13	MW
13F0185-03	ELB-17 1.5-2	06/07/13	MW
13F0185-04	ELB-18 1.5-2	06/07/13	MW
13F0185-05	ELB-19 1.5-2	06/07/13	MW
13F0185-06	ELB-22 1.5-2	06/07/13	MW
13F0185-07	ELB-27 1.5-2	06/07/13	MW
13F0185-08	ELB-29 1.5-2	06/07/13	MW
13F0185-09	ELB-28 1.5-2	06/07/13	MW
13F0185-10	ELB-31 1.5-2	06/07/13	MW
13F0185-11	ELB-23 1.5-2	06/07/13	MW
13F0185-12	ELB-32 1.5-2	06/07/13	MW
BF30317-BLK1	Blank	06/07/13	MW
BF30317-DUP1	Duplicate	06/07/13	MW
BF30317-MS1	Matrix Spike	06/07/13	MW
BF30317-SRM1	Reference	06/07/13	MW

Batch ID: BF30318 **General Method:** SPLP Metals by EPA SW846-1312/6010B
Prep Method: EPA 3010A

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13F0185-01	ELB-15 1.5-2	06/07/13	MW
13F0185-02	ELB-16 1.5-2	06/07/13	MW
13F0185-03	ELB-17 1.5-2	06/07/13	MW
13F0185-04	ELB-18 1.5-2	06/07/13	MW
13F0185-05	ELB-19 1.5-2	06/07/13	MW
13F0185-06	ELB-22 1.5-2	06/07/13	MW
13F0185-07	ELB-27 1.5-2	06/07/13	MW
13F0185-08	ELB-29 1.5-2	06/07/13	MW
13F0185-09	ELB-28 1.5-2	06/07/13	MW
13F0185-10	ELB-31 1.5-2	06/07/13	MW
13F0185-11	ELB-23 1.5-2	06/07/13	MW
13F0185-12	ELB-32 1.5-2	06/07/13	MW
BF30318-BLK1	Blank	06/07/13	MW
BF30318-BLK2	Blank	06/07/13	MW
BF30318-BLK3	Blank	06/07/13	MW
BF30318-DUP1	Duplicate	06/07/13	MW
BF30318-MS1	Matrix Spike	06/07/13	MW
BF30318-SRM1	Reference	06/07/13	MW



Batch ID: BF30388

General Method: Miscellaneous Physical/Conventional Chemistry Parameters

Prep Method: % Solids Prep

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13F0185-07	ELB-27 1.5-2	06/10/13	AMC
13F0185-08	ELB-29 1.5-2	06/10/13	AMC
13F0185-09	ELB-28 1.5-2	06/10/13	AMC
13F0185-10	ELB-31 1.5-2	06/10/13	AMC
13F0185-11	ELB-23 1.5-2	06/10/13	AMC
13F0185-12	ELB-32 1.5-2	06/10/13	AMC



SPLP Extraction by EPA SW-846 1312 - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF30287 - EPA SW 846-1312 SPLP for Extr. for Metals

Blank (BF30287-BLK1)

Prepared: 06/06/2013 Analyzed: 06/07/2013

SPLP Extraction	Completed	1.00	N/A								
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Metals by EPA 6000 Series Methods - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30317 - EPA 3050B											
Blank (BF30317-BLK1)										Prepared & Analyzed: 06/07/2013	
Lead	ND	0.300	mg/kg wet								
Duplicate (BF30317-DUP1)										*Source sample: 13F0185-10 (ELB-31 1.5-2)	
Prepared & Analyzed: 06/07/2013											
Lead	1.36	0.316	mg/kg dry		1.38				1.54	35	
Matrix Spike (BF30317-MS1)										*Source sample: 13F0185-10 (ELB-31 1.5-2)	
Prepared & Analyzed: 06/07/2013											
Lead	55.2	0.316	mg/kg dry	52.6	1.38	102	75-125				
Reference (BF30317-SRM1)										Prepared & Analyzed: 06/07/2013	
Lead	84.5	0.300	mg/kg wet	91.7		92.1	70.2-130				



SPLP Metals by EPA SW846-1312/6010B - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BF30318 - EPA 3010A											
Blank (BF30318-BLK1) Prepared & Analyzed: 06/07/2013											
Lead	ND	0.00300	mg/L								
Blank (BF30318-BLK2) Prepared & Analyzed: 06/07/2013											
Lead	ND	0.00300	mg/L								
Blank (BF30318-BLK3) Prepared & Analyzed: 06/07/2013											
Lead	ND	0.00300	mg/L								
Duplicate (BF30318-DUP1) *Source sample: 13F0185-05 (ELB-19 1.5-2) Prepared & Analyzed: 06/07/2013											
Lead	0.00668	0.00300	mg/L		0.00696				4.10	20	
Matrix Spike (BF30318-MS1) *Source sample: 13F0185-05 (ELB-19 1.5-2) Prepared & Analyzed: 06/07/2013											
Lead	0.526	0.00300	mg/L	0.500	0.00696	104	75-125				
Reference (BF30318-SRM1) Prepared & Analyzed: 06/07/2013											
Lead	1.51	0.00300	mg/L	1.48		102	87.8-111				



DATA QUALITY ASSESSMENT WORKSHEET - METALS

<i>Laboratory Name:</i>	York Analytical Laboratories, Inc.	<i>Client:</i>	Langan Engineering & Environmental Serv
<i>Project Location:</i>	140068605	<i>Lab Project No.:</i>	13F0185
<i>Laboratory Sample ID(s):</i>	13F0185-01 - 13F0185-12	<i>Sampling Date(s):</i>	05/30/2013 - 05/31/2013

Describe the intended use of the data:
 The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NOT APPLICABLE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Standard Reference Material Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NOT APPLICABLE
Duplicate Precision Evaluation	NONE



DATA QUALITY ASSESSMENT SUMMARY

No QC Nonconformances Found

No Sample Nonconformances Found

Notes: Other RCP nonconformances, if any, are detailed in the Data Quality Assessment worksheets.

For multiple surrogate analyses such as semi-volatiles, volatiles, etc, single surrogate excursions do not necessarily indicate a bias in the sample. Samples with multiple surrogate excursions may exhibit a bias in the results.

Definitions: LCS - Laboratory Control Sample
LCS dup - Laboratory Control Sample Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
BS - Blank Spike also called LCS
BSD - Blank Spike Duplicate also called LCS dup
SRM - Standard Reference Material
DUP - Duplicate



Notes and Definitions

EXT-COMP Completed

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive

New Haven CT, 06511

Attention: Kyle Zalaski

Report Date: 04/01/2013

Client Project ID: 140068601

York Project (SDG) No.: 13C0564

CT License No. PH-0723

New Jersey License No. CT-005



New York License No. 10854

PA License No. 68-04440

Report Date: 04/01/2013
Client Project ID: 140068601
York Project (SDG) No.: 13C0564

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Kyle Zalaski

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on March 20, 2013 and listed below. The project was identified as your project: **140068601**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
13C0564-01	TRIP BLANK	Water	03/19/2013	03/20/2013
13C0564-02	FIELD BLANK	Water	03/19/2013	03/20/2013
13C0564-03	DUP	Water	03/19/2013	03/20/2013
13C0564-04	ELB-14 (OW)	Water	03/19/2013	03/20/2013
13C0564-05	ELB-12 (OW)	Water	03/19/2013	03/20/2013
13C0564-06	ELB-6 (OW)	Water	03/19/2013	03/20/2013
13C0564-07	ELB-5 (OW)	Water	03/19/2013	03/20/2013

General Notes for York Project (SDG) No.: 13C0564

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By:



Robert Q. Bradley
Laboratory Director

Date: 04/01/2013

YORK

Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 13C0564-01

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 3:00 pm

Date Received
03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS

Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 13C0564-01

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 3:00 pm

Date Received
03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS

Sample Information

Client Sample ID: TRIP BLANK

York Sample ID: 13C0564-01

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 3:00 pm

Date Received
03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:02	SS
Surrogate Recoveries		Result			Acceptance Range					
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	127 %			70-130					
460-00-4	Surrogate: p-Bromofluorobenzene	99.8 %			70-130					
2037-26-5	Surrogate: Toluene-d8	96.8 %			70-130					

Sample Information

Client Sample ID: FIELD BLANK

York Sample ID: 13C0564-02

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 2:00 pm

Date Received
03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS

Sample Information

Client Sample ID: FIELD BLANK

York Sample ID: 13C0564-02

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 2:00 pm

Date Received
03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
78-93-3	2-Butanone	3.3		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS

Sample Information

Client Sample ID: FIELD BLANK

York Sample ID: 13C0564-02

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 2:00 pm

Date Received
03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 02:38	SS
Surrogate Recoveries		Result			Acceptance Range					
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	118 %			70-130					
460-00-4	Surrogate: p-Bromofluorobenzene	97.4 %			70-130					
2037-26-5	Surrogate: Toluene-d8	99.0 %			70-130					

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	11.1	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
95-48-7	2-Methylphenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR

Sample Information

Client Sample ID: FIELD BLANK

York Sample ID: 13C0564-02

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 2:00 pm

Date Received
03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
88-75-5	2-Nitrophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	11.1	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
83-32-9	Acenaphthene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
62-53-3	Aniline	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
120-12-7	Anthracene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
117-81-7	Bis(2-ethylhexyl)phthalate	30.8		ug/L	0.556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
86-74-8	Carbazole	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
218-01-9	Chrysene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
132-64-9	Dibenzofuran	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
206-44-0	Fluoranthene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
86-73-7	Fluorene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR

Sample Information

Client Sample ID: FIELD BLANK

York Sample ID: 13C0564-02

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 2:00 pm

Date Received
03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
118-74-1	Hexachlorobenzene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
67-72-1	Hexachloroethane	ND		ug/L	0.556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
78-59-1	Isophorone	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
91-20-3	Naphthalene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
98-95-3	Nitrobenzene	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.111	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
85-01-8	Phenanthrene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
108-95-2	Phenol	ND		ug/L	5.56	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
129-00-0	Pyrene	ND		ug/L	0.0556	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR
110-86-1	Pyridine	ND		ug/L	0.111	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 12:49	SR

Surrogate Recoveries

Result

Acceptance Range

5175-83-7	Surrogate: 2,4,6-Tribromophenol	87.7 %
321-60-8	Surrogate: 2-Fluorobiphenyl	60.7 %
367-12-4	Surrogate: 2-Fluorophenol	33.1 %
4165-60-0	Surrogate: Nitrobenzene-d5	67.3 %
4165-62-2	Surrogate: Phenol-d5	21.2 %
1718-51-0	Surrogate: Terphenyl-d14	88.2 %

15-110

30-130

15-110

30-130

15-110

30-130

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW
1336-36-3	Total PCBs	ND		ug/L	0.0571	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:15	JW

Surrogate Recoveries

Result

Acceptance Range

2051-24-3	Surrogate: Decachlorobiphenyl	73.1 %
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30-150

Sample Information

Client Sample ID: FIELD BLANK

York Sample ID: 13C0564-02

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 2:00 pm

Date Received
03/20/2013

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	Surrogate: Tetrachloro-m-xylene	68.5 %			30-150					

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	0.0985		mg/L	0.0769	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR
	Surrogate Recoveries	Result			Acceptance Range					
3386-33-2	Surrogate: 1-Chlorooctadecane	71.4 %			25.9-150					

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-38-2	Arsenic	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-39-3	Barium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-47-3	Chromium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-50-8	Copper	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7439-92-1	Lead	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-02-0	Nickel	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7782-49-2	Selenium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-62-2	Vanadium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW
7440-66-6	Zinc	0.015		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 10:53	MW

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 3:00 pm

Date Received
03/20/2013

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 3:00 pm

Date Received
03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

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Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:14	SS

Sample Information

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Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Surrogate Recoveries		Result			Acceptance Range					
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	123 %			70-130					
460-00-4	Surrogate: p-Bromofluorobenzene	102 %			70-130					
2037-26-5	Surrogate: Toluene-d8	96.8 %			70-130					

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
95-48-7	2-Methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
83-32-9	Acenaphthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
62-53-3	Aniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

York Project (SDG) No.
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Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-12-7	Anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
117-81-7	Bis(2-ethylhexyl)phthalate	266		ug/L	5.26	10	EPA SW-846 8270C	03/22/2013 07:41	03/25/2013 18:04	SR
86-74-8	Carbazole	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
218-01-9	Chrysene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
132-64-9	Dibenzofuran	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
206-44-0	Fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
86-73-7	Fluorene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
67-72-1	Hexachloroethane	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
78-59-1	Isophorone	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
91-20-3	Naphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
98-95-3	Nitrobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
85-01-8	Phenanthrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
108-95-2	Phenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR

Sample Information

Client Sample ID: DUP

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Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	Pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
110-86-1	Pyridine	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:20	SR
Surrogate Recoveries		Result			Acceptance Range					
5175-83-7	Surrogate: 2,4,6-Tribromophenol	108 %			15-110					
321-60-8	Surrogate: 2-Fluorobiphenyl	77.8 %			30-130					
367-12-4	Surrogate: 2-Fluorophenol	42.3 %			15-110					
4165-60-0	Surrogate: Nitrobenzene-d5	86.1 %			30-130					
4165-62-2	Surrogate: Phenol-d5	27.3 %			15-110					
1718-51-0	Surrogate: Terphenyl-d14	91.6 %			30-130					

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
1336-36-3	Total PCBs	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:34	JW
Surrogate Recoveries		Result			Acceptance Range					
2051-24-3	Surrogate: Decachlorobiphenyl	53.7 %			30-150					
877-09-8	Surrogate: Tetrachloro-m-xylene	43.0 %			30-150					

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0789	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR
Surrogate Recoveries		Result			Acceptance Range					
3386-33-2	Surrogate: 1-Chlorooctadecane	94.4 %			25.9-150					

Sample Information

Client Sample ID: DUP

York Sample ID: 13C0564-03

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 3:00 pm

Date Received
03/20/2013

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-38-2	Arsenic	0.001		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-39-3	Barium	0.396		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-47-3	Chromium	0.005		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-50-8	Copper	0.040		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7439-92-1	Lead	0.002		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-02-0	Nickel	0.008		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7782-49-2	Selenium	0.003		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-62-2	Vanadium	0.001		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW
7440-66-6	Zinc	0.014		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:00	MW

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: ELB-14 (OW)

York Sample ID: 13C0564-04

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 10:40 am

Date Received
03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS

Sample Information

Client Sample ID: ELB-14 (OW)

York Sample ID: 13C0564-04

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 10:40 am

Date Received
03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
95-63-6	1,2,4-Trimethylbenzene	0.62		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS

Sample Information

Client Sample ID: ELB-14 (OW)

York Sample ID: 13C0564-04

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 10:40 am

Date Received
03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 03:49	SS
	Surrogate Recoveries	Result			Acceptance Range					
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	122 %			70-130					
460-00-4	Surrogate: p-Bromofluorobenzene	99.7 %			70-130					
2037-26-5	Surrogate: Toluene-d8	96.6 %			70-130					

Sample Information

Client Sample ID: ELB-14 (OW)

York Sample ID: 13C0564-04

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 10:40 am

Date Received
03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.8	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
95-48-7	2-Methylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.8	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
83-32-9	Acenaphthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
62-53-3	Aniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
120-12-7	Anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR

Sample Information

Client Sample ID: ELB-14 (OW)

York Sample ID: 13C0564-04

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 10:40 am

Date Received
03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
117-81-7	Bis(2-ethylhexyl)phthalate	0.627		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
86-74-8	Carbazole	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
218-01-9	Chrysene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
132-64-9	Dibenzofuran	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
206-44-0	Fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
86-73-7	Fluorene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
67-72-1	Hexachloroethane	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
78-59-1	Isophorone	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
91-20-3	Naphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
98-95-3	Nitrobenzene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.108	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
85-01-8	Phenanthrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
108-95-2	Phenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
129-00-0	Pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR
110-86-1	Pyridine	ND		ug/L	0.108	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 13:51	SR

Surrogate Recoveries

Result

Acceptance Range

5175-83-7	Surrogate: 2,4,6-Tribromophenol	94.8 %
321-60-8	Surrogate: 2-Fluorobiphenyl	69.1 %
367-12-4	Surrogate: 2-Fluorophenol	36.2 %
4165-60-0	Surrogate: Nitrobenzene-d5	76.6 %
4165-62-2	Surrogate: Phenol-d5	23.4 %

15-110
30-130
15-110
30-130
15-110

Sample Information

Client Sample ID: ELB-14 (OW)

York Sample ID: 13C0564-04

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 10:40 am

Date Received
03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1718-51-0	Surrogate: Terphenyl-d14	81.1 %			30-130					

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW
1336-36-3	Total PCBs	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 16:54	JW

Surrogate Recoveries

Result

Acceptance Range

2051-24-3	Surrogate: Decachlorobiphenyl	47.8 %			30-150
877-09-8	Surrogate: Tetrachloro-m-xylene	44.5 %			30-150

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0811	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR

Surrogate Recoveries

Result

Acceptance Range

3386-33-2	Surrogate: 1-Chlorooctadecane	88.0 %			25.9-150
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Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-38-2	Arsenic	0.001		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-39-3	Barium	0.143		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-43-9	Cadmium	0.001		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-47-3	Chromium	0.005		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-50-8	Copper	0.018		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7439-92-1	Lead	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-02-0	Nickel	0.024		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7782-49-2	Selenium	0.003		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW

Sample Information

Client Sample ID: ELB-14 (OW)

York Sample ID: 13C0564-04

York Project (SDG) No.
13C0564

Client Project ID
140068601

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Water

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March 19, 2013 10:40 am

Date Received
03/20/2013

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-62-2	Vanadium	0.002		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW
7440-66-6	Zinc	0.017		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:07	MW

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: ELB-12 (OW)

York Sample ID: 13C0564-05

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 12:40 pm

Date Received
03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS

Sample Information

Client Sample ID: ELB-12 (OW)

York Sample ID: 13C0564-05

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 12:40 pm

Date Received
03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
591-78-6	2-Hexanone	0.67		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS

Sample Information

Client Sample ID: ELB-12 (OW)

York Sample ID: 13C0564-05

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 12:40 pm

Date Received
03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 04:25	SS

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: 1,2-Dichloroethane-d4	127 %	70-130
460-00-4	Surrogate: p-Bromofluorobenzene	98.1 %	70-130
2037-26-5	Surrogate: Toluene-d8	97.0 %	70-130

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR

Sample Information

Client Sample ID: ELB-12 (OW)

York Sample ID: 13C0564-05

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 12:40 pm

Date Received
03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
95-48-7	2-Methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
83-32-9	Acenaphthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
62-53-3	Aniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
120-12-7	Anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
117-81-7	Bis(2-ethylhexyl)phthalate	1.05		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
86-74-8	Carbazole	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
218-01-9	Chrysene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
132-64-9	Dibenzofuran	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR

Sample Information

Client Sample ID: ELB-12 (OW)

York Sample ID: 13C0564-05

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 12:40 pm

Date Received
03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
206-44-0	Fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
86-73-7	Fluorene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
67-72-1	Hexachloroethane	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
78-59-1	Isophorone	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
91-20-3	Naphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
98-95-3	Nitrobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
85-01-8	Phenanthrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
108-95-2	Phenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
129-00-0	Pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR
110-86-1	Pyridine	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:22	SR

Surrogate Recoveries

Result

Acceptance Range

5175-83-7	Surrogate: 2,4,6-Tribromophenol	105 %	15-110
321-60-8	Surrogate: 2-Fluorobiphenyl	73.5 %	30-130
367-12-4	Surrogate: 2-Fluorophenol	36.0 %	15-110
4165-60-0	Surrogate: Nitrobenzene-d5	80.4 %	30-130
4165-62-2	Surrogate: Phenol-d5	22.8 %	15-110
1718-51-0	Surrogate: Terphenyl-d14	91.6 %	30-130

Sample Information

Client Sample ID: ELB-12 (OW)

York Sample ID: 13C0564-05

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

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March 19, 2013 12:40 pm

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03/20/2013

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
1336-36-3	Total PCBs	ND		ug/L	0.0526	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 17:53	JW
Surrogate Recoveries		Result			Acceptance Range					
2051-24-3	Surrogate: Decachlorobiphenyl	63.2 %			30-150					
877-09-8	Surrogate: Tetrachloro-m-xylene	91.5 %			30-150					

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0789	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR
Surrogate Recoveries		Result			Acceptance Range					
3386-33-2	Surrogate: 1-Chlorooctadecane	96.7 %			25.9-150					

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	0.001		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-38-2	Arsenic	0.001		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-39-3	Barium	0.358		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-47-3	Chromium	0.004		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-50-8	Copper	0.089		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7439-92-1	Lead	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-02-0	Nickel	0.007		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7782-49-2	Selenium	0.003		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-62-2	Vanadium	0.001		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW
7440-66-6	Zinc	0.012		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:27	MW

Sample Information

Client Sample ID: ELB-12 (OW)

York Sample ID: 13C0564-05

<u>York Project (SDG) No.</u> 13C0564	<u>Client Project ID</u> 140068601	<u>Matrix</u> Water	<u>Collection Date/Time</u> March 19, 2013 12:40 pm	<u>Date Received</u> 03/20/2013
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Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: ELB-6 (OW)

York Sample ID: 13C0564-06

<u>York Project (SDG) No.</u> 13C0564	<u>Client Project ID</u> 140068601	<u>Matrix</u> Water	<u>Collection Date/Time</u> March 19, 2013 3:15 pm	<u>Date Received</u> 03/20/2013
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Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS

Sample Information

Client Sample ID: ELB-6 (OW)

York Sample ID: 13C0564-06

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 3:15 pm

Date Received
03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	0.51		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
67-66-3	Chloroform	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS

Sample Information

Client Sample ID: ELB-6 (OW)

York Sample ID: 13C0564-06

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 3:15 pm

Date Received
03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/25/2013 15:35	03/26/2013 05:01	SS
Surrogate Recoveries		Result			Acceptance Range					
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	125 %			70-130					
460-00-4	Surrogate: p-Bromofluorobenzene	100 %			70-130					
2037-26-5	Surrogate: Toluene-d8	95.0 %			70-130					

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
95-48-7	2-Methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR

Sample Information

Client Sample ID: ELB-6 (OW)

York Sample ID: 13C0564-06

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 3:15 pm

Date Received
03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-09-2	3-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.5	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
83-32-9	Acenaphthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
62-53-3	Aniline	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
120-12-7	Anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
117-81-7	Bis(2-ethylhexyl)phthalate	17.1		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
86-74-8	Carbazole	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
218-01-9	Chrysene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
132-64-9	Dibenzofuran	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
206-44-0	Fluoranthene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
86-73-7	Fluorene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR

Sample Information

Client Sample ID: ELB-6 (OW)

York Sample ID: 13C0564-06

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 3:15 pm

Date Received
03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-72-1	Hexachloroethane	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
78-59-1	Isophorone	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
91-20-3	Naphthalene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
98-95-3	Nitrobenzene	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
85-01-8	Phenanthrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
108-95-2	Phenol	ND		ug/L	5.26	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
129-00-0	Pyrene	ND		ug/L	0.0526	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
110-86-1	Pyridine	ND		ug/L	0.105	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 14:53	SR
Surrogate Recoveries		Result			Acceptance Range					
5175-83-7	Surrogate: 2,4,6-Tribromophenol	95.4 %			15-110					
321-60-8	Surrogate: 2-Fluorobiphenyl	69.3 %			30-130					
367-12-4	Surrogate: 2-Fluorophenol	37.0 %			15-110					
4165-60-0	Surrogate: Nitrobenzene-d5	76.1 %			30-130					
4165-62-2	Surrogate: Phenol-d5	23.8 %			15-110					
1718-51-0	Surrogate: Terphenyl-d14	89.8 %			30-130					

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
1336-36-3	Total PCBs	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:13	JW
Surrogate Recoveries		Result			Acceptance Range					
2051-24-3	Surrogate: Decachlorobiphenyl	50.2 %			30-150					
877-09-8	Surrogate: Tetrachloro-m-xylene	46.5 %			30-150					

Sample Information

Client Sample ID: ELB-6 (OW)		York Sample ID: 13C0564-06	
<u>York Project (SDG) No.</u> 13C0564	<u>Client Project ID</u> 140068601	<u>Matrix</u> Water	<u>Collection Date/Time</u> March 19, 2013 3:15 pm
		<u>Date Received</u> 03/20/2013	

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0811	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR
Surrogate Recoveries		Result		Acceptance Range						
3386-33-2	Surrogate: 1-Chlorooctadecane	94.0 %			25.9-150					

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-38-2	Arsenic	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-39-3	Barium	0.123		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-47-3	Chromium	0.004		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-50-8	Copper	0.011		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7439-92-1	Lead	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-02-0	Nickel	0.005		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7782-49-2	Selenium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-62-2	Vanadium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW
7440-66-6	Zinc	0.006		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:34	MW

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA

Sample Information

Client Sample ID: ELB-5 (OW)		York Sample ID: 13C0564-07	
<u>York Project (SDG) No.</u> 13C0564	<u>Client Project ID</u> 140068601	<u>Matrix</u> Water	<u>Collection Date/Time</u> March 19, 2013 5:00 pm
		<u>Date Received</u> 03/20/2013	

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS

Sample Information

Client Sample ID: ELB-5 (OW)

York Sample ID: 13C0564-07

York Project (SDG) No.
13C0564

Client Project ID
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Water

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Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
142-28-9	1,3-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
594-20-7	2,2-Dichloropropane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
78-93-3	2-Butanone	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
95-49-8	2-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
591-78-6	2-Hexanone	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
106-43-4	4-Chlorotoluene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
67-64-1	Acetone	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
107-13-1	Acrylonitrile	ND		ug/L	1.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
71-43-2	Benzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-86-1	Bromobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
74-97-5	Bromochloromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-27-4	Bromodichloromethane	0.98		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-25-2	Bromoform	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
74-83-9	Bromomethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-15-0	Carbon disulfide	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS

Sample Information

Client Sample ID: ELB-5 (OW)

York Sample ID: 13C0564-07

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 5:00 pm

Date Received
03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-90-7	Chlorobenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-00-3	Chloroethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
67-66-3	Chloroform	12		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
74-87-3	Chloromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
74-95-3	Dibromomethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
80-62-6	Methyl Methacrylate	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-09-2	Methylene chloride	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
91-20-3	Naphthalene	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
95-47-6	o-Xylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
1330-20-7P/M	p- & m- Xylenes	ND		ug/L	1.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
100-42-5	Styrene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
109-99-9	Tetrahydrofuran	ND		ug/L	2.0	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
108-88-3	Toluene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
79-01-6	Trichloroethylene	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.50	1	SW8260B	03/26/2013 08:20	03/26/2013 13:48	SS
	Surrogate Recoveries	Result			Acceptance Range					

Sample Information

Client Sample ID: ELB-5 (OW)

York Sample ID: 13C0564-07

York Project (SDG) No.
13C0564

Client Project ID
140068601

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Collection Date/Time
March 19, 2013 5:00 pm

Date Received
03/20/2013

Volatile Organics, CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	104 %			70-130					
460-00-4	Surrogate: p-Bromofluorobenzene	118 %			70-130					
2037-26-5	Surrogate: Toluene-d8	104 %			70-130					

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-tetrachlorobenzene	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
51-28-5	2,4-Dinitrophenol	ND		ug/L	10.8	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
91-58-7	2-Chloronaphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
95-57-8	2-Chlorophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
91-57-6	2-Methylnaphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
95-48-7	2-Methylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
88-74-4	2-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
88-75-5	2-Nitrophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
99-09-2	3-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	10.8	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
106-47-8	4-Chloroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
100-01-6	4-Nitroaniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
100-02-7	4-Nitrophenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
83-32-9	Acenaphthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
208-96-8	Acenaphthylene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
62-53-3	Aniline	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
120-12-7	Anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR

Sample Information

Client Sample ID: ELB-5 (OW)

York Sample ID: 13C0564-07

York Project (SDG) No.
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Client Project ID
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Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
117-81-7	Bis(2-ethylhexyl)phthalate	3.69		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
86-74-8	Carbazole	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
218-01-9	Chrysene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
132-64-9	Dibenzofuran	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
84-66-2	Diethyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
131-11-3	Dimethyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
206-44-0	Fluoranthene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
86-73-7	Fluorene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
118-74-1	Hexachlorobenzene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
87-68-3	Hexachlorobutadiene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
67-72-1	Hexachloroethane	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
78-59-1	Isophorone	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
91-20-3	Naphthalene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
98-95-3	Nitrobenzene	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
82-68-8	Pentachloronitrobenzene	ND		ug/L	0.108	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
87-86-5	Pentachlorophenol	ND		ug/L	0.541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
85-01-8	Phenanthrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
108-95-2	Phenol	ND		ug/L	5.41	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
129-00-0	Pyrene	ND		ug/L	0.0541	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR

Sample Information

Client Sample ID: ELB-5 (OW)

York Sample ID: 13C0564-07

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 5:00 pm

Date Received
03/20/2013

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-86-1	Pyridine	ND		ug/L	0.108	1	EPA SW-846 8270C	03/22/2013 07:41	03/22/2013 15:25	SR
Surrogate Recoveries		Result			Acceptance Range					
5175-83-7	Surrogate: 2,4,6-Tribromophenol	98.7 %			15-110					
321-60-8	Surrogate: 2-Fluorobiphenyl	70.4 %			30-130					
367-12-4	Surrogate: 2-Fluorophenol	36.8 %			15-110					
4165-60-0	Surrogate: Nitrobenzene-d5	76.6 %			30-130					
4165-62-2	Surrogate: Phenol-d5	22.8 %			15-110					
1718-51-0	Surrogate: Terphenyl-d14	94.9 %			30-130					

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
11104-28-2	Aroclor 1221	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
11141-16-5	Aroclor 1232	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
53469-21-9	Aroclor 1242	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
12672-29-6	Aroclor 1248	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
11097-69-1	Aroclor 1254	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
11096-82-5	Aroclor 1260	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
1336-36-3	Total PCBs	ND		ug/L	0.0541	1	EPA SW 846-8082A	03/21/2013 07:53	03/21/2013 18:32	JW
Surrogate Recoveries		Result			Acceptance Range					
2051-24-3	Surrogate: Decachlorobiphenyl	76.1 %			30-150					
877-09-8	Surrogate: Tetrachloro-m-xylene	67.5 %			30-150					

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.0811	1	CT DEP ETPH	03/21/2013 07:46	03/22/2013 15:24	SR
Surrogate Recoveries		Result			Acceptance Range					
3386-33-2	Surrogate: 1-Chlorooctadecane	102 %			25.9-150					

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-38-2	Arsenic	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-39-3	Barium	0.023		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-41-7	Beryllium	ND		mg/L	0.0001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-43-9	Cadmium	ND		mg/L	0.0005	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW

Sample Information

Client Sample ID: ELB-5 (OW)

York Sample ID: 13C0564-07

York Project (SDG) No.
13C0564

Client Project ID
140068601

Matrix
Water

Collection Date/Time
March 19, 2013 5:00 pm

Date Received
03/20/2013

Metals, CTDEP RCP

Sample Prepared by Method: EPA 3010A

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	0.003		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-50-8	Copper	0.005		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7439-92-1	Lead	0.001		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-02-0	Nickel	0.002		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7782-49-2	Selenium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-22-4	Silver	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-28-0	Thallium	ND		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-62-2	Vanadium	0.001		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW
7440-66-6	Zinc	0.025		mg/L	0.001	1	EPA SW846-6020	03/26/2013 07:17	03/26/2013 11:54	MW

Mercury by 7470/7471

Sample Prepared by Method: EPA SW846-7470

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA SW846-7470	03/22/2013 10:00	03/22/2013 10:00	AA



REASONABLE CONFIDENCE PROTOCOL

LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: York Analytical Laboratories, Inc. Client: Langan Engineering & Environmental Serv
 Project Location: 140068601 Lab Project No.: 13C0564
 Laboratory Sample ID(s): 13C0564-01 - 13C0564-07 Sampling Date(s): 03/19/2013 - 03/19/2013
 RCP Methods Used: See Narrative and Method Reference Section of this Technical Report

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 RCPs)?	YES
1A	Were the method specified preservation and holding time requirements met?	YES
1B	VPH and EPH Methods only: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	NR
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were samples received at an appropriate temperature (<6°C)?	YES
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	NO
5A	Were reporting limits specified or referenced on the chain-of-custody?	YES
5B	Were these reporting limits met?	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
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	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 questions #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: Robert Q. Bradley Date: 04/01/2013



Case Narrative

Client: Langan Engineering & Environmental Services (CT)

Client Project ID: 140068601

Prepared for: Kyle Zalaski

Introduction

This Case Narrative applies to the following samples submitted to our laboratory on **3/20/2013 3:20:00 PM** :

DUP	Water
ELB-12 (OW)	Water
ELB-14 (OW)	Water
ELB-5 (OW)	Water
ELB-6 (OW)	Water
FIELD BLANK	Water
TRIP BLANK	Water

The 7 sample(s) were received intact in a custody-sealed cooler unless otherwise noted. Upon receipt, the temperature of the cooler was determined. The cooler temperature was acceptable (2-6oC) and measured cooler 1 @ 3.4 C at time of receipt as measured by a NIST traceable digital infrared thermometer. Chain-of-custody was maintained from receipt through analysis in the laboratory.

Methodology

Preparation and analysis were conducted according to the SW-846 methods, as detailed in the sample information table, and the requirements of the State of Connecticut Reasonable Confidence Protocols (RCP).

Volatile Organics (RCP List)

No problems were encountered with analysis of the samples, other than detailed below. Analysis acceptance criteria were achieved and the reporting requirements as detailed in the RCP protocols for volatiles by method 8260 dated July, 2006, Version 3.0, pages 8 through 11 are included herein.

The following compounds do not meet the current action levels defined in the State of Connecticut Remedial Standard Regulations (RSR) groundwater protection criteria (GWPC) due to method limitations: trans-1,4-Dichloro-2-butene, Ethylene Dibromide, and Hexachlorobutadiene. In addition, dilutions required due to levels of target compounds or matrix interference, if noted below, may also affect detection limits.

Initial Calibration

In the initial calibration data for analytical method V3RCPA80, Dichlorodifluoromethane, Methylene Chloride, Acetone, Tetrahydrofuran, 2-Hexanone, trans-1,3-Dichloropropane, 1,1,2,2-Tetrachloroethane, and 1,2,4-Trichlorobenzene exceeded 15% RSD. Samples "Trip Blank", "Field Blank", "DUP", "ELB-14 (OW)", "ELB-12 (OW)", and "ELB-6 (OW) were run using this method.

In the initial calibration data for analytical method V6RCP010, Methylene Chloride, Acrylonitrile, Acetone, 2-Butanone, Ethylbenzene, Styrene, 1,2,3-Trichloropropane, Isopropylbenzene, n-Propylbenzene, 2-Chlorotoluene,

4-Chlorotoluene, tert-Butylbenzene, 1,3,5-Trimethylbenzene, 1,2,4-Trimethylbenzene, sec-Butylbenzene, p-Isopropyltoluene, n-Butylbenzene, Napthalene, and 1,2,3-Trichlorobenzene exceeded 15% RSD. Sample "ELB-5 (OW)" was run using this method.

Initial Calibration Verification

In the initial calibration verification for method V3RCPA80, 2-Hexanone and 4-Methyl-2-Pentanone recovered outside the 80-120% window.

In the initial calibration verification for method V6RCP010, Acetone, 4-Methyl-2-Pentanone, 1,2-Dibromo-3-Chloropropane, and 1,2,4-Trimethylbenzene recovered outside the 80-120% window.

Continuing Calibration Verification

In the continuing calibration verification affecting samples "Trip Blank", "Field Blank", "DUP", "ELB-14 (OW)", "ELB-12 (OW)", and "ELB-6 (OW)", Bromomethane, Tetrahydrofuran, Carbon Tetrachloride, cis-1,3-Dichloropropene, and Napthalene exceeded 30% difference.

In the continuing calibration verification affecting sample "ELB-5 (OW)", Styrene and 1,2,4-Trimethylbenzene exceeded 30% difference

Method Blank

In the method blank associated with samples "Trip Blank", "Field Blank", "DUP", "ELB-14 (OW)", "ELB-12 (OW)", and "ELB-6 (OW)", Acetone was detected at 4.7 ug/L and Methylene Chloride was detected at 2.9 ug/L. Where detected in the samples, the compound is flagged "B" accordingly.

In the method blank associated with sample "ELB-5 (OW)", no target analyte was detected at or above the RL.

Batch QC

An LCS/LCS Dup set was used as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Dilutions

No sample dilution was required.

Semi-Volatile Organics (RCP List)

No problems were encountered with analysis of the samples other than as described below. Analysis acceptance criteria were achieved and the reporting requirements as detailed in the RCP protocols for volatiles by method 8270 dated July, 2006, Version 3.0. are included herein.

Initial Calibration

In the initial calibration data for SIMS method PAHSM09, all target compounds were within 30% RSD. All

samples were run using this method.

In the initial calibration data for analytical method BNA2M214, Aniline, Hexachlorocyclopentadiene, 2,4-Dichlorophenol, 4-Nitroaniline, 4,6-Dinitro-2-methylphenol, Pentachlorophenol, and Pentachloronitrobenzene exceeded 15% RSD. All samples were analyzed using this method.

Initial Calibration Verification

In the initial calibration verification for method BNA2M214, Aniline, 4-Chloroaniline, and n-Nitrosodiphenylamine recovered outside the 80-120% window.

Continuing Calibration Verification

In the SIMS continuing calibration verification affecting all samples, Dibenz(a,h)anthracene exceeded 30% difference.

In the scan continuing calibration verification affecting all samples, Hexachlorocyclopentadiene, 2,4-Dinitrophenol, and Dibenz(a,h)anthracene exceeded 30% difference.

In the scan continuing calibration verification affecting sample "DUP", Hexachlorocyclopentadiene and 3,3-Dichlorobenzidine exceeded 30% difference.

Method Blank

No target compound was detected at or above the RL in the method blanks.

Batch QC

The site-specific sample "ELB-14 (OW)" was used as MS/MS Dup for this project. Please refer to the Quality Control Data attached to this report for bias information

Dilutions

Sample "DUP" required dilution due to the levels of target compounds encountered. Some analyte reporting limits are elevated in the samples as a result.

PCBs

No problems were encountered during analysis of the samples.

Method Blank

No target analyte was detected at or above the RL.

Batch QC

The site-specific sample, "ELB-14 (OW)" was used as MS/MS Dup for this project. Please refer to the Quality

Control Data attached to this report for bias information.

Dilutions

No sample dilution was required. All analyte reporting limits were met.

ETPH

No problems were encountered with analysis of the sample.

Method Blank

No analyte was detected in the method blank at or above the RL.

Batch QC

The site-specific sample, "ELB-14 (OW)" was used as MS/MS Dup for this project. Please refer to the Quality Control Data attached to this report for bias information.

Dilutions

No sample dilution was required. All analyte reporting limits were met.

Metals – Total (RCP List, excluding Hg)

No problems were encountered during analysis of the sample.

Batch QC

The site-specific sample, "ELB-14 (OW)" was used as MS/Dup for this project. Please refer to the Quality Control Data attached to this report for bias information.

Method Blank

No analyte was detected at or above the RL in the method blank.

Dilutions

No sample dilution was required. All analyte reporting limits were met.

Mercury - Total

No problems were encountered during analysis of the sample.

Batch QC

The site-specific sample, "ELB-14 (OW)" was used as MS/Dup for this project. Please refer to the Quality Control Data attached to this report for bias information.

Method Blank

No analyte was detected at or above the RL in the method blank.

Dilutions

No sample dilution was required. All analyte reporting limits were met.

Analytical Batch Summary

Batch ID: BC31034 **General Method:** Gas Chromatography/Flame Ionization Determination
Prep Method: EPA SW846-3510C Low Level

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/21/13	KAM
13C0564-03	DUP	03/21/13	KAM
13C0564-04	ELB-14 (OW)	03/21/13	KAM
13C0564-05	ELB-12 (OW)	03/21/13	KAM
13C0564-06	ELB-6 (OW)	03/21/13	KAM
13C0564-07	ELB-5 (OW)	03/21/13	KAM
BC31034-BLK1	Blank	03/21/13	KAM
BC31034-BS1	LCS	03/21/13	KAM
BC31034-MS1	Matrix Spike	03/21/13	KAM
BC31034-MSD1	Matrix Spike Dup	03/21/13	KAM

Batch ID: BC31036 **General Method:** Polychlorinated Biphenyls (PCB) by EPA SW 846-8082/EPA Com
Prep Method: EPA SW846-3510C Low Level

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/21/13	KAM
13C0564-03	DUP	03/21/13	KAM
13C0564-04	ELB-14 (OW)	03/21/13	KAM
13C0564-05	ELB-12 (OW)	03/21/13	KAM
13C0564-06	ELB-6 (OW)	03/21/13	KAM
13C0564-07	ELB-5 (OW)	03/21/13	KAM
BC31036-BLK1	Blank	03/21/13	KAM
BC31036-BS1	LCS	03/21/13	KAM
BC31036-MS1	Matrix Spike	03/21/13	KAM
BC31036-MSD1	Matrix Spike Dup	03/21/13	KAM

Batch ID: BC31045 **General Method:** Mercury by EPA 7000/200 Series Methods
Prep Method: EPA SW846-7470

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/22/13	AA
13C0564-03	DUP	03/22/13	AA
13C0564-04	ELB-14 (OW)	03/22/13	AA
13C0564-05	ELB-12 (OW)	03/22/13	AA
13C0564-06	ELB-6 (OW)	03/22/13	AA
13C0564-07	ELB-5 (OW)	03/22/13	AA
BC31045-BLK1	Blank	03/22/13	AA
BC31045-BS1	LCS	03/22/13	AA
BC31045-DUP1	Duplicate	03/22/13	AA
BC31045-MS1	Matrix Spike	03/22/13	AA

YORK

ANALYTICAL LABORATORIES, INC.

Batch ID: BC31101 **General Method:** Semivolatile Organic Compounds by EPA Method 8270C
Prep Method: EPA 3510C

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/22/13	KAM
13C0564-03	DUP	03/22/13	KAM
13C0564-04	ELB-14 (OW)	03/22/13	KAM
13C0564-05	ELB-12 (OW)	03/22/13	KAM
13C0564-06	ELB-6 (OW)	03/22/13	KAM
13C0564-07	ELB-5 (OW)	03/22/13	KAM
BC31101-BLK1	Blank	03/22/13	KAM
BC31101-BS1	LCS	03/22/13	KAM
BC31101-MS1	Matrix Spike	03/22/13	KAM
BC31101-MSD1	Matrix Spike Dup	03/22/13	KAM

Batch ID: BC31222 **General Method:** Volatile Organic Compounds by EPA SW846-8260B
Prep Method: EPA 5030B

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-01	TRIP BLANK	03/25/13	BK
13C0564-02	FIELD BLANK	03/25/13	BK
13C0564-03	DUP	03/25/13	BK
13C0564-04	ELB-14 (OW)	03/25/13	BK
13C0564-05	ELB-12 (OW)	03/25/13	BK
13C0564-06	ELB-6 (OW)	03/25/13	BK
BC31222-BLK1	Blank	03/25/13	BK
BC31222-BS1	LCS	03/25/13	BK
BC31222-BSD1	LCS Dup	03/25/13	BK

Batch ID: BC31230 **General Method:** Metals by EPA 6000 Series Methods
Prep Method: EPA 3010A

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-02	FIELD BLANK	03/26/13	MW
13C0564-03	DUP	03/26/13	MW
13C0564-04	ELB-14 (OW)	03/26/13	MW
13C0564-05	ELB-12 (OW)	03/26/13	MW
13C0564-06	ELB-6 (OW)	03/26/13	MW
13C0564-07	ELB-5 (OW)	03/26/13	MW
BC31230-BLK1	Blank	03/26/13	MW
BC31230-DUP1	Duplicate	03/26/13	MW
BC31230-MS1	Matrix Spike	03/26/13	MW
BC31230-SRM1	Reference	03/26/13	MW

YORK

ANALYTICAL LABORATORIES, INC.

Batch ID: BC31255

General Method: Volatile Organic Compounds by EPA SW846-8260B

Prep Method: EPA 5030B

YORK Sample ID	Client Sample ID	Preparation Date	Prepared By
13C0564-07	ELB-5 (OW)	03/26/13	EKM
BC31255-BLK1	Blank	03/26/13	EKM
BC31255-BS1	LCS	03/26/13	EKM
BC31255-BSD1	LCS Dup	03/26/13	EKM

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BC31222 - EPA 5030B

Blank (BC31222-BLK1)

Prepared & Analyzed: 03/25/2013

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	2.0	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	2.0	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	2.0	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	2.0	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	4.7	2.0	"								
Acrylonitrile	ND	1.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl Methacrylate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	2.9	2.0	"								
Naphthalene	ND	2.0	"								
n-Butylbenzene	ND	0.50	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
Blank (BC31222-BLK1)											
										Prepared & Analyzed: 03/25/2013	
n-Propylbenzene	ND	0.50	ug/L								
o-Xylene	ND	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Tetrahydrofuran	ND	2.0	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
trans-1,4-dichloro-2-butene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>11.4</i>		<i>"</i>	<i>10.0</i>		<i>114</i>	<i>70-130</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>9.95</i>		<i>"</i>	<i>10.0</i>		<i>99.5</i>	<i>70-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>9.88</i>		<i>"</i>	<i>10.0</i>		<i>98.8</i>	<i>70-130</i>				
LCS (BC31222-BS1)											
										Prepared & Analyzed: 03/25/2013	
1,1,1,2-Tetrachloroethane	9.3		ug/L	10.0		93.1	70-130				
1,1,1-Trichloroethane	10		"	10.0		103	70-130				
1,1,2,2-Tetrachloroethane	8.1		"	10.0		81.3	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.8		"	10.0		87.6	70-130				
1,1,2-Trichloroethane	7.8		"	10.0		77.6	70-130				
1,1-Dichloroethane	8.6		"	10.0		86.4	70-130				
1,1-Dichloroethylene	8.0		"	10.0		80.5	70-130				
1,1-Dichloropropylene	8.5		"	10.0		85.1	70-130				
1,2,3-Trichlorobenzene	11		"	10.0		107	70-130				
1,2,3-Trichloropropane	9.6		"	10.0		96.2	70-130				
1,2,4-Trichlorobenzene	10		"	10.0		102	70-130				
1,2,4-Trimethylbenzene	9.4		"	10.0		94.3	70-130				
1,2-Dibromo-3-chloropropane	11		"	10.0		108	70-130				
1,2-Dibromoethane	9.4		"	10.0		93.5	70-130				
1,2-Dichlorobenzene	9.2		"	10.0		92.3	70-130				
1,2-Dichloroethane	10		"	10.0		104	70-130				
1,2-Dichloropropane	8.0		"	10.0		80.1	70-130				
1,3,5-Trimethylbenzene	9.4		"	10.0		94.1	70-130				
1,3-Dichlorobenzene	9.3		"	10.0		93.0	70-130				
1,3-Dichloropropane	8.7		"	10.0		87.1	70-130				
1,4-Dichlorobenzene	9.3		"	10.0		93.2	70-130				
2,2-Dichloropropane	10		"	10.0		101	70-130				
2-Butanone	8.0		"	10.0		80.0	70-130				
2-Chlorotoluene	9.6		"	10.0		96.0	70-130				
2-Hexanone	6.8		"	10.0		67.7	70-130	Low Bias			
4-Chlorotoluene	9.6		"	10.0		95.6	70-130				
4-Methyl-2-pentanone	5.8		"	10.0		57.6	70-130	Low Bias			
Acetone	8.3		"	10.0		83.1	70-130				
Acrylonitrile	7.1		"	10.0		70.8	70-130				
Benzene	8.3		"	10.0		82.6	70-130				
Bromobenzene	9.0		"	10.0		89.7	70-130				
Bromochloromethane	7.9		"	10.0		78.7	70-130				
Bromodichloromethane	8.7		"	10.0		86.8	70-130				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
Prepared & Analyzed: 03/25/2013											
LCS (BC31222-BS1)											
Bromoform	9.7		ug/L	10.0		96.8	70-130				
Bromomethane	5.6		"	10.0		56.3	70-130	Low Bias			
Carbon disulfide	15		"	20.0		75.2	70-130				
Carbon tetrachloride	12		"	10.0		117	70-130				
Chlorobenzene	9.4		"	10.0		93.8	70-130				
Chloroethane	7.0		"	10.0		69.7	70-130	Low Bias			
Chloroform	9.3		"	10.0		92.9	70-130				
Chloromethane	6.5		"	10.0		64.6	70-130	Low Bias			
cis-1,2-Dichloroethylene	8.9		"	10.0		89.3	70-130				
cis-1,3-Dichloropropylene	8.8		"	10.0		87.6	70-130				
Dibromochloromethane	9.7		"	10.0		97.2	70-130				
Dibromomethane	9.0		"	10.0		89.9	70-130				
Dichlorodifluoromethane	5.9		"	10.0		59.3	70-130	Low Bias			
Ethyl Benzene	9.4		"	10.0		94.2	70-130				
Hexachlorobutadiene	10		"	10.0		104	70-130				
Isopropylbenzene	9.4		"	10.0		94.1	70-130				
Methyl Methacrylate	6.5		"	10.0		65.0	70-130	Low Bias			
Methyl tert-butyl ether (MTBE)	9.7		"	10.0		97.3	70-130				
Methylene chloride	9.3		"	10.0		93.2	70-130				
Naphthalene	12		"	10.0		118	70-130				
n-Butylbenzene	9.1		"	10.0		90.6	70-130				
n-Propylbenzene	9.2		"	10.0		92.5	70-130				
o-Xylene	9.0		"	10.0		90.2	70-130				
p- & m- Xylenes	19		"	20.0		94.0	70-130				
p-Isopropyltoluene	9.7		"	10.0		97.3	70-130				
sec-Butylbenzene	9.6		"	10.0		96.1	70-130				
Styrene	9.6		"	10.0		96.1	70-130				
tert-Butylbenzene	9.1		"	10.0		91.1	70-130				
Tetrachloroethylene	9.1		"	10.0		90.6	70-130				
Tetrahydrofuran	4.0		"	10.0		39.8	70-130	Low Bias			
Toluene	8.8		"	10.0		88.1	70-130				
trans-1,2-Dichloroethylene	8.3		"	10.0		83.1	70-130				
trans-1,3-Dichloropropylene	8.8		"	10.0		87.8	70-130				
trans-1,4-dichloro-2-butene	9.0		"	10.0		89.5	70-130				
Trichloroethylene	8.3		"	10.0		83.4	70-130				
Trichlorofluoromethane	11		"	10.0		107	70-130				
Vinyl Chloride	7.0		"	10.0		70.3	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>11.6</i>		<i>"</i>	<i>10.0</i>		<i>116</i>	<i>70-130</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>10.4</i>		<i>"</i>	<i>10.0</i>		<i>104</i>	<i>70-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>9.79</i>		<i>"</i>	<i>10.0</i>		<i>97.9</i>	<i>70-130</i>				

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31222 - EPA 5030B											
LCS Dup (BC31222-BSD1)											
										Prepared & Analyzed: 03/25/2013	
1,1,1,2-Tetrachloroethane	8.9		ug/L	10.0		89.0	70-130		4.50	30	
1,1,1-Trichloroethane	10		"	10.0		104	70-130		0.386	30	
1,1,2,2-Tetrachloroethane	8.3		"	10.0		83.1	70-130		2.19	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.5		"	10.0		85.1	70-130		2.90	30	
1,1,2-Trichloroethane	7.6		"	10.0		75.7	70-130		2.48	30	
1,1-Dichloroethane	8.4		"	10.0		84.4	70-130		2.34	30	
1,1-Dichloroethylene	8.1		"	10.0		81.2	70-130		0.866	30	
1,1-Dichloropropylene	8.4		"	10.0		84.5	70-130		0.708	30	
1,2,3-Trichlorobenzene	11		"	10.0		109	70-130		1.67	30	
1,2,3-Trichloropropane	9.5		"	10.0		95.2	70-130		1.04	30	
1,2,4-Trichlorobenzene	10		"	10.0		103	70-130		0.682	30	
1,2,4-Trimethylbenzene	9.7		"	10.0		96.8	70-130		2.62	30	
1,2-Dibromo-3-chloropropane	10		"	10.0		105	70-130		3.01	30	
1,2-Dibromoethane	9.2		"	10.0		92.1	70-130		1.51	30	
1,2-Dichlorobenzene	9.5		"	10.0		94.8	70-130		2.67	30	
1,2-Dichloroethane	11		"	10.0		108	70-130		3.31	30	
1,2-Dichloropropane	7.6		"	10.0		76.5	70-130		4.60	30	
1,3,5-Trimethylbenzene	9.4		"	10.0		94.4	70-130		0.318	30	
1,3-Dichlorobenzene	9.6		"	10.0		95.6	70-130		2.76	30	
1,3-Dichloropropane	8.3		"	10.0		82.7	70-130		5.18	30	
1,4-Dichlorobenzene	9.4		"	10.0		93.7	70-130		0.535	30	
2,2-Dichloropropane	9.7		"	10.0		97.0	70-130		4.44	30	
2-Butanone	8.9		"	10.0		89.0	70-130		10.7	30	
2-Chlorotoluene	9.4		"	10.0		93.9	70-130		2.21	30	
2-Hexanone	6.8		"	10.0		68.4	70-130	Low Bias	1.03	30	
4-Chlorotoluene	9.5		"	10.0		95.2	70-130		0.419	30	
4-Methyl-2-pentanone	6.0		"	10.0		59.7	70-130	Low Bias	3.58	30	
Acetone	9.2		"	10.0		91.5	70-130		9.62	30	
Acrylonitrile	7.1		"	10.0		71.4	70-130		0.844	30	
Benzene	8.1		"	10.0		81.2	70-130		1.71	30	
Bromobenzene	9.0		"	10.0		90.4	70-130		0.777	30	
Bromochloromethane	7.9		"	10.0		78.7	70-130		0.00	30	
Bromodichloromethane	8.4		"	10.0		83.5	70-130		3.88	30	
Bromoform	10		"	10.0		100	70-130		3.45	30	
Bromomethane	5.7		"	10.0		56.8	70-130	Low Bias	0.884	30	
Carbon disulfide	15		"	20.0		73.7	70-130		2.01	30	
Carbon tetrachloride	12		"	10.0		116	70-130		0.257	30	
Chlorobenzene	9.0		"	10.0		90.3	70-130		3.80	30	
Chloroethane	6.8		"	10.0		68.2	70-130	Low Bias	2.18	30	
Chloroform	9.4		"	10.0		94.4	70-130		1.60	30	
Chloromethane	6.4		"	10.0		63.8	70-130	Low Bias	1.25	30	
cis-1,2-Dichloroethylene	8.7		"	10.0		87.2	70-130		2.38	30	
cis-1,3-Dichloropropylene	8.4		"	10.0		84.3	70-130		3.84	30	
Dibromochloromethane	9.8		"	10.0		98.1	70-130		0.922	30	
Dibromomethane	8.9		"	10.0		88.8	70-130		1.23	30	
Dichlorodifluoromethane	5.7		"	10.0		57.2	70-130	Low Bias	3.61	30	
Ethyl Benzene	9.0		"	10.0		90.3	70-130		4.23	30	
Hexachlorobutadiene	11		"	10.0		108	70-130		3.50	30	
Isopropylbenzene	9.5		"	10.0		94.7	70-130		0.636	30	
Methyl Methacrylate	6.7		"	10.0		67.3	70-130	Low Bias	3.48	30	
Methyl tert-butyl ether (MTBE)	9.6		"	10.0		96.4	70-130		0.929	30	
Methylene chloride	9.2		"	10.0		91.9	70-130		1.40	30	
Naphthalene	12		"	10.0		124	70-130		5.12	30	
n-Butylbenzene	9.1		"	10.0		90.7	70-130		0.110	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BC31222 - EPA 5030B

LCS Dup (BC31222-BSD1)

Prepared & Analyzed: 03/25/2013

n-Propylbenzene	9.2		ug/L	10.0		92.0	70-130		0.542	30	
o-Xylene	8.7		"	10.0		87.1	70-130		3.50	30	
p- & m- Xylenes	18		"	20.0		90.8	70-130		3.35	30	
p-Isopropyltoluene	9.8		"	10.0		97.8	70-130		0.513	30	
sec-Butylbenzene	9.6		"	10.0		96.4	70-130		0.312	30	
Styrene	9.9		"	10.0		98.6	70-130		2.57	30	
tert-Butylbenzene	9.1		"	10.0		90.8	70-130		0.330	30	
Tetrachloroethylene	8.9		"	10.0		89.3	70-130		1.45	30	
Tetrahydrofuran	4.2		"	10.0		41.7	70-130	Low Bias	4.66	30	
Toluene	8.6		"	10.0		85.5	70-130		3.00	30	
trans-1,2-Dichloroethylene	8.0		"	10.0		79.8	70-130		4.05	30	
trans-1,3-Dichloropropylene	8.5		"	10.0		84.8	70-130		3.48	30	
trans-1,4-dichloro-2-butene	8.8		"	10.0		88.3	70-130		1.35	30	
Trichloroethylene	8.2		"	10.0		82.0	70-130		1.69	30	
Trichlorofluoromethane	11		"	10.0		106	70-130		0.0939	30	
Vinyl Chloride	6.9		"	10.0		68.6	70-130	Low Bias	2.45	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>12.1</i>		<i>"</i>	<i>10.0</i>		<i>121</i>	<i>70-130</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>10.3</i>		<i>"</i>	<i>10.0</i>		<i>103</i>	<i>70-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>9.65</i>		<i>"</i>	<i>10.0</i>		<i>96.5</i>	<i>70-130</i>				

Batch BC31255 - EPA 5030B

Blank (BC31255-BLK1)

Prepared & Analyzed: 03/26/2013

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,1-Dichloropropylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	2.0	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	2.0	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	2.0	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,3-Dichloropropane	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
2,2-Dichloropropane	ND	0.50	"								
2-Butanone	ND	2.0	"								
2-Chlorotoluene	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Chlorotoluene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrylonitrile	ND	1.0	"								
Benzene	ND	0.50	"								
Bromobenzene	ND	0.50	"								

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BC31255 - EPA 5030B

Blank (BC31255-BLK1)

Prepared & Analyzed: 03/26/2013

Bromochloromethane	ND	0.50	ug/L							
Bromodichloromethane	ND	0.50	"							
Bromoform	ND	0.50	"							
Bromomethane	ND	0.50	"							
Carbon disulfide	ND	0.50	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	0.50	"							
Chloroethane	ND	0.50	"							
Chloroform	ND	0.50	"							
Chloromethane	ND	0.50	"							
cis-1,2-Dichloroethylene	ND	0.50	"							
cis-1,3-Dichloropropylene	ND	0.50	"							
Dibromochloromethane	ND	0.50	"							
Dibromomethane	ND	0.50	"							
Dichlorodifluoromethane	ND	0.50	"							
Ethyl Benzene	ND	0.50	"							
Hexachlorobutadiene	ND	0.50	"							
Isopropylbenzene	ND	0.50	"							
Methyl Methacrylate	ND	0.50	"							
Methyl tert-butyl ether (MTBE)	ND	0.50	"							
Methylene chloride	ND	2.0	"							
Naphthalene	ND	2.0	"							
n-Butylbenzene	ND	0.50	"							
n-Propylbenzene	ND	0.50	"							
o-Xylene	ND	0.50	"							
p- & m- Xylenes	ND	1.0	"							
p-Isopropyltoluene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
tert-Butylbenzene	ND	0.50	"							
Tetrachloroethylene	ND	0.50	"							
Tetrahydrofuran	ND	2.0	"							
Toluene	ND	0.50	"							
trans-1,2-Dichloroethylene	ND	0.50	"							
trans-1,3-Dichloropropylene	ND	0.50	"							
trans-1,4-dichloro-2-butene	ND	0.50	"							
Trichloroethylene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
Vinyl Chloride	ND	0.50	"							
<hr/>										
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.2</i>		<i>"</i>	<i>10.0</i>		<i>102</i>	<i>70-130</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>12.0</i>		<i>"</i>	<i>10.0</i>		<i>120</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>10.2</i>		<i>"</i>	<i>10.0</i>		<i>102</i>	<i>70-130</i>			

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31255 - EPA 5030B										
LCS (BC31255-BS1)										
						Prepared & Analyzed: 03/26/2013				
1,1,1,2-Tetrachloroethane	9.5		ug/L	10.0		94.9	70-130			
1,1,1-Trichloroethane	10		"	10.0		101	70-130			
1,1,2,2-Tetrachloroethane	10		"	10.0		105	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.4		"	10.0		94.4	70-130			
1,1,2-Trichloroethane	9.2		"	10.0		92.5	70-130			
1,1-Dichloroethane	9.8		"	10.0		98.1	70-130			
1,1-Dichloroethylene	9.4		"	10.0		93.9	70-130			
1,1-Dichloropropylene	9.2		"	10.0		91.7	70-130			
1,2,3-Trichlorobenzene	11		"	10.0		106	70-130			
1,2,3-Trichloropropane	9.6		"	10.0		96.0	70-130			
1,2,4-Trichlorobenzene	11		"	10.0		105	70-130			
1,2,4-Trimethylbenzene	15		"	10.0		154	70-130			High Bias
1,2-Dibromo-3-chloropropane	7.3		"	10.0		73.4	70-130			
1,2-Dibromoethane	10		"	10.0		101	70-130			
1,2-Dichlorobenzene	9.6		"	10.0		96.4	70-130			
1,2-Dichloroethane	9.7		"	10.0		96.9	70-130			
1,2-Dichloropropane	9.1		"	10.0		91.3	70-130			
1,3,5-Trimethylbenzene	12		"	10.0		115	70-130			
1,3-Dichlorobenzene	9.6		"	10.0		96.1	70-130			
1,3-Dichloropropane	9.2		"	10.0		92.3	70-130			
1,4-Dichlorobenzene	9.8		"	10.0		98.5	70-130			
2,2-Dichloropropane	10		"	10.0		104	70-130			
2-Butanone	11		"	10.0		106	70-130			
2-Chlorotoluene	9.6		"	10.0		95.5	70-130			
2-Hexanone	9.9		"	10.0		99.0	70-130			
4-Chlorotoluene	10		"	10.0		99.7	70-130			
4-Methyl-2-pentanone	7.5		"	10.0		75.1	70-130			
Acetone	7.9		"	10.0		79.3	70-130			
Acrylonitrile	9.3		"	10.0		93.2	70-130			
Benzene	10		"	10.0		102	70-130			
Bromobenzene	9.4		"	10.0		93.8	70-130			
Bromochloromethane	9.9		"	10.0		99.4	70-130			
Bromodichloromethane	9.9		"	10.0		99.0	70-130			
Bromoform	11		"	10.0		110	70-130			
Bromomethane	9.7		"	10.0		97.4	70-130			
Carbon disulfide	19		"	20.0		93.8	70-130			
Carbon tetrachloride	10		"	10.0		100	70-130			
Chlorobenzene	9.4		"	10.0		94.4	70-130			
Chloroethane	9.9		"	10.0		99.3	70-130			
Chloroform	10		"	10.0		102	70-130			
Chloromethane	10		"	10.0		102	70-130			
cis-1,2-Dichloroethylene	10		"	10.0		102	70-130			
cis-1,3-Dichloropropylene	10		"	10.0		100	70-130			
Dibromochloromethane	11		"	10.0		106	70-130			
Dibromomethane	9.6		"	10.0		95.9	70-130			
Dichlorodifluoromethane	12		"	10.0		118	70-130			
Ethyl Benzene	10		"	10.0		99.9	70-130			
Hexachlorobutadiene	10		"	10.0		102	70-130			
Isopropylbenzene	10		"	10.0		101	70-130			
Methyl Methacrylate	12		"	10.0		116	70-130			
Methyl tert-butyl ether (MTBE)	9.9		"	10.0		98.9	70-130			
Methylene chloride	7.0		"	10.0		70.0	70-130			
Naphthalene	12		"	10.0		122	70-130			
n-Butylbenzene	10		"	10.0		99.5	70-130			

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31255 - EPA 5030B										
LCS (BC31255-BS1)						Prepared & Analyzed: 03/26/2013				
n-Propylbenzene	10		ug/L	10.0		99.8	70-130			
o-Xylene	9.8		"	10.0		97.7	70-130			
p- & m- Xylenes	22		"	20.0		108	70-130			
p-Isopropyltoluene	11		"	10.0		111	70-130			
sec-Butylbenzene	10		"	10.0		102	70-130			
Styrene	15		"	10.0		154	70-130	High Bias		
tert-Butylbenzene	9.8		"	10.0		98.1	70-130			
Tetrachloroethylene	9.0		"	10.0		89.9	70-130			
Tetrahydrofuran	11		"	10.0		105	70-130			
Toluene	9.5		"	10.0		95.3	70-130			
trans-1,2-Dichloroethylene	9.0		"	10.0		89.8	70-130			
trans-1,3-Dichloropropylene	9.9		"	10.0		98.6	70-130			
trans-1,4-dichloro-2-butene	9.4		"	10.0		94.4	70-130			
Trichloroethylene	9.4		"	10.0		94.1	70-130			
Trichlorofluoromethane	10		"	10.0		102	70-130			
Vinyl Chloride	9.6		"	10.0		96.3	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.4</i>		<i>"</i>	<i>10.0</i>		<i>104</i>	<i>70-130</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>10.1</i>		<i>"</i>	<i>10.0</i>		<i>101</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>9.83</i>		<i>"</i>	<i>10.0</i>		<i>98.3</i>	<i>70-130</i>			
LCS Dup (BC31255-BSD1)						Prepared & Analyzed: 03/26/2013				
1,1,1,2-Tetrachloroethane	9.7		ug/L	10.0		97.1	70-130	2.29	30	
1,1,1-Trichloroethane	11		"	10.0		106	70-130	4.94	30	
1,1,2,2-Tetrachloroethane	10		"	10.0		101	70-130	3.20	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0		100	70-130	5.76	30	
1,1,2-Trichloroethane	9.2		"	10.0		91.6	70-130	0.978	30	
1,1-Dichloroethane	9.9		"	10.0		99.3	70-130	1.22	30	
1,1-Dichloroethylene	9.9		"	10.0		99.3	70-130	5.59	30	
1,1-Dichloropropylene	9.6		"	10.0		96.3	70-130	4.89	30	
1,2,3-Trichlorobenzene	11		"	10.0		108	70-130	2.05	30	
1,2,3-Trichloropropane	9.4		"	10.0		93.5	70-130	2.64	30	
1,2,4-Trichlorobenzene	11		"	10.0		107	70-130	1.13	30	
1,2,4-Trimethylbenzene	16		"	10.0		163	70-130	High Bias 5.74	30	
1,2-Dibromo-3-chloropropane	6.9		"	10.0		69.0	70-130	Low Bias 6.18	30	
1,2-Dibromoethane	9.5		"	10.0		95.2	70-130	5.62	30	
1,2-Dichlorobenzene	10		"	10.0		101	70-130	5.06	30	
1,2-Dichloroethane	9.3		"	10.0		93.1	70-130	4.00	30	
1,2-Dichloropropane	9.1		"	10.0		90.7	70-130	0.659	30	
1,3,5-Trimethylbenzene	12		"	10.0		125	70-130	8.17	30	
1,3-Dichlorobenzene	10		"	10.0		103	70-130	6.83	30	
1,3-Dichloropropane	9.0		"	10.0		90.0	70-130	2.52	30	
1,4-Dichlorobenzene	10		"	10.0		103	70-130	4.76	30	
2,2-Dichloropropane	11		"	10.0		108	70-130	3.49	30	
2-Butanone	8.8		"	10.0		88.4	70-130	17.8	30	
2-Chlorotoluene	10		"	10.0		102	70-130	6.58	30	
2-Hexanone	8.9		"	10.0		89.0	70-130	10.6	30	
4-Chlorotoluene	11		"	10.0		105	70-130	5.46	30	
4-Methyl-2-pentanone	6.8		"	10.0		67.9	70-130	Low Bias 10.1	30	
Acetone	6.9		"	10.0		68.9	70-130	Low Bias 14.0	30	
Acrylonitrile	8.6		"	10.0		85.8	70-130	8.27	30	
Benzene	10		"	10.0		103	70-130	1.17	30	
Bromobenzene	9.7		"	10.0		96.9	70-130	3.25	30	
Bromochloromethane	9.6		"	10.0		96.1	70-130	3.38	30	
Bromodichloromethane	9.8		"	10.0		98.3	70-130	0.710	30	

Volatile Organic Compounds by EPA SW846-8260B - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31255 - EPA 5030B											
LCS Dup (BC31255-BSD1)											
										Prepared & Analyzed: 03/26/2013	
Bromoform	11		ug/L	10.0		108	70-130		1.38	30	
Bromomethane	9.6		"	10.0		95.8	70-130		1.66	30	
Carbon disulfide	20		"	20.0		98.4	70-130		4.79	30	
Carbon tetrachloride	10		"	10.0		105	70-130		4.19	30	
Chlorobenzene	9.7		"	10.0		97.3	70-130		3.03	30	
Chloroethane	10		"	10.0		103	70-130		3.95	30	
Chloroform	10		"	10.0		103	70-130		0.389	30	
Chloromethane	11		"	10.0		105	70-130		2.89	30	
cis-1,2-Dichloroethylene	10		"	10.0		102	70-130		0.391	30	
cis-1,3-Dichloropropylene	9.8		"	10.0		98.1	70-130		2.12	30	
Dibromochloromethane	10		"	10.0		102	70-130		3.85	30	
Dibromomethane	9.4		"	10.0		93.7	70-130		2.32	30	
Dichlorodifluoromethane	12		"	10.0		121	70-130		2.85	30	
Ethyl Benzene	10		"	10.0		104	70-130		3.64	30	
Hexachlorobutadiene	11		"	10.0		108	70-130		6.28	30	
Isopropylbenzene	11		"	10.0		111	70-130		8.86	30	
Methyl Methacrylate	11		"	10.0		110	70-130		5.67	30	
Methyl tert-butyl ether (MTBE)	9.0		"	10.0		90.0	70-130		9.42	30	
Methylene chloride	7.0		"	10.0		70.3	70-130		0.428	30	
Naphthalene	12		"	10.0		119	70-130		2.42	30	
n-Butylbenzene	11		"	10.0		109	70-130		9.11	30	
n-Propylbenzene	11		"	10.0		110	70-130		9.45	30	
o-Xylene	10		"	10.0		100	70-130		2.53	30	
p- & m- Xylenes	22		"	20.0		112	70-130		3.44	30	
p-Isopropyltoluene	12		"	10.0		120	70-130		8.21	30	
sec-Butylbenzene	11		"	10.0		112	70-130		9.44	30	
Styrene	15		"	10.0		151	70-130	High Bias	2.04	30	
tert-Butylbenzene	11		"	10.0		106	70-130		7.93	30	
Tetrachloroethylene	9.7		"	10.0		96.6	70-130		7.18	30	
Tetrahydrofuran	9.2		"	10.0		92.1	70-130		13.2	30	
Toluene	9.8		"	10.0		98.2	70-130		3.00	30	
trans-1,2-Dichloroethylene	9.2		"	10.0		92.3	70-130		2.75	30	
trans-1,3-Dichloropropylene	9.3		"	10.0		92.8	70-130		6.06	30	
trans-1,4-dichloro-2-butene	9.4		"	10.0		93.6	70-130		0.851	30	
Trichloroethylene	9.9		"	10.0		98.8	70-130		4.87	30	
Trichlorofluoromethane	11		"	10.0		108	70-130		5.99	30	
Vinyl Chloride	10		"	10.0		103	70-130		6.72	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.1</i>		<i>"</i>	<i>10.0</i>		<i>101</i>	<i>70-130</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>10.6</i>		<i>"</i>	<i>10.0</i>		<i>106</i>	<i>70-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>9.91</i>		<i>"</i>	<i>10.0</i>		<i>99.1</i>	<i>70-130</i>				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BC31101 - EPA 3510C

Blank (BC31101-BLK1)

Prepared & Analyzed: 03/22/2013

Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Aniline	ND	5.00	"								
Anthracene	ND	0.0500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Benzyl butyl phthalate	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
Carbazole	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Dibenzofuran	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
3,3'-Dichlorobenzidine	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	10.0	"								
2,4-Dinitrophenol	ND	10.0	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0500	"								
Hexachlorobutadiene	ND	5.00	"								
Hexachlorocyclopentadiene	ND	5.00	"								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Isophorone	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
Naphthalene	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
3-Nitroaniline	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
Nitrobenzene	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
4-Nitrophenol	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
Blank (BC31101-BLK1)											
										Prepared & Analyzed: 03/22/2013	
N-Nitrosodiphenylamine	ND	5.00	ug/L								
Pentachloronitrobenzene	ND	0.100	"								
Pentachlorophenol	ND	0.500	"								
Phenanthrene	ND	0.0500	"								
Phenol	ND	5.00	"								
Pyrene	ND	0.0500	"								
Pyridine	ND	0.100	"								
1,2,4,5-tetrachlorobenzene	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
<i>Surrogate: 2,4,6-Tribromophenol</i>	72.5		"	75.0		96.6	15-110				
<i>Surrogate: 2-Fluorobiphenyl</i>	35.0		"	50.0		69.9	30-130				
<i>Surrogate: 2-Fluorophenol</i>	26.6		"	75.0		35.5	15-110				
<i>Surrogate: Nitrobenzene-d5</i>	39.7		"	50.2		79.1	30-130				
<i>Surrogate: Phenol-d5</i>	16.5		"	75.1		22.0	15-110				
<i>Surrogate: Terphenyl-d14</i>	48.5		"	50.0		97.1	30-130				
LCS (BC31101-BS1)											
										Prepared & Analyzed: 03/22/2013	
Acenaphthene	42.2	0.0500	ug/L	50.0		84.3	40-140				
Acenaphthylene	41.4	0.0500	"	50.0		82.9	40-140				
Aniline	37.8	5.00	"	50.0		75.5	40-140				
Anthracene	44.9	0.0500	"	50.0		89.7	40-140				
Benzo(a)anthracene	45.0	0.0500	"	50.0		89.9	40-140				
Benzo(a)pyrene	55.0	0.0500	"	50.0		110	40-140				
Benzo(b)fluoranthene	47.4	0.0500	"	50.0		94.8	40-140				
Benzo(g,h,i)perylene	54.7	0.0500	"	50.0		109	40-140				
Benzo(k)fluoranthene	47.7	0.0500	"	50.0		95.4	40-140				
Benzyl butyl phthalate	40.1	5.00	"	50.0		80.2	40-140				
4-Bromophenyl phenyl ether	46.9	5.00	"	50.0		93.7	40-140				
Carbazole	47.9	5.00	"	50.0		95.8	40-140				
4-Chloro-3-methylphenol	39.9	5.00	"	50.0		79.8	30-130				
4-Chloroaniline	63.0	5.00	"	50.0		126	40-140				
Bis(2-chloroethoxy)methane	43.1	5.00	"	50.0		86.2	40-140				
Bis(2-chloroethyl)ether	41.7	5.00	"	50.0		83.5	40-140				
Bis(2-chloroisopropyl)ether	41.6	5.00	"	50.0		83.1	40-140				
2-Chloronaphthalene	41.1	5.00	"	50.0		82.1	40-140				
2-Chlorophenol	34.5	5.00	"	50.0		69.0	30-130				
4-Chlorophenyl phenyl ether	42.4	5.00	"	50.0		84.7	40-140				
Chrysene	41.7	0.0500	"	50.0		83.4	40-140				
Dibenzo(a,h)anthracene	61.4	0.0500	"	50.0		123	40-140				
Dibenzofuran	42.6	5.00	"	50.0		85.2	40-140				
Di-n-butyl phthalate	40.8	5.00	"	50.0		81.5	40-140				
3,3'-Dichlorobenzidine	65.2	5.00	"	50.0		130	40-140				
2,4-Dichlorophenol	41.8	5.00	"	50.0		83.7	30-130				
Diethyl phthalate	42.8	5.00	"	50.0		85.6	40-140				
2,4-Dimethylphenol	39.1	5.00	"	50.0		78.2	30-130				
Dimethyl phthalate	43.9	5.00	"	50.0		87.7	40-140				
4,6-Dinitro-2-methylphenol	53.0	10.0	"	50.0		106	30-130				
2,4-Dinitrophenol	66.4	10.0	"	50.0		133	30-130	High Bias			
2,4-Dinitrotoluene	44.0	5.00	"	50.0		88.0	40-140				
2,6-Dinitrotoluene	45.9	5.00	"	50.0		91.9	40-140				
Di-n-octyl phthalate	35.5	5.00	"	50.0		70.9	40-140				
Bis(2-ethylhexyl)phthalate	38.0	0.500	"	50.0		75.9	40-140				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BC31101 - EPA 3510C

LCS (BC31101-BS1)

Prepared & Analyzed: 03/22/2013

Fluoranthene	43.6	0.0500	ug/L	50.0		87.2	40-140				
Fluorene	42.7	0.0500	"	50.0		85.4	40-140				
Hexachlorobenzene	43.7	0.0500	"	50.0		87.4	40-140				
Hexachlorobutadiene	38.6	5.00	"	50.0		77.3	40-140				
Hexachlorocyclopentadiene	26.4	5.00	"	50.0		52.7	40-140				
Hexachloroethane	35.6	0.500	"	50.0		71.3	40-140				
Indeno(1,2,3-cd)pyrene	60.0	0.0500	"	50.0		120	40-140				
Isophorone	43.4	5.00	"	50.0		86.7	40-140				
2-Methylnaphthalene	42.3	5.00	"	50.0		84.7	40-140				
2-Methylphenol	29.8	5.00	"	50.0		59.6	30-130				
3- & 4-Methylphenols	25.4	5.00	"	50.0		50.8	30-130				
Naphthalene	39.6	5.00	"	50.0		79.3	40-140				
2-Nitroaniline	46.1	5.00	"	50.0		92.3	40-140				
3-Nitroaniline	54.5	5.00	"	50.0		109	40-140				
4-Nitroaniline	55.2	5.00	"	50.0		110	40-140				
Nitrobenzene	42.0	5.00	"	50.0		83.9	40-140				
2-Nitrophenol	44.2	5.00	"	50.0		88.3	30-130				
4-Nitrophenol	14.7	5.00	"	50.0		29.4	30-130	Low Bias			
N-nitroso-di-n-propylamine	42.5	5.00	"	50.0		85.1	40-140				
N-Nitrosodiphenylamine	54.8	5.00	"	50.0		110	40-140				
Pentachloronitrobenzene	41.6	0.100	"	50.0		83.1	40-140				
Pentachlorophenol	51.2	0.500	"	50.0		102	30-130				
Phenanthrene	44.0	0.0500	"	50.0		88.1	40-140				
Phenol	10.8	5.00	"	50.0		21.6	30-130	Low Bias			
Pyrene	43.9	0.0500	"	50.0		87.8	40-140				
Pyridine	10.5	0.100	"	50.0		21.1	40-140	Low Bias			
1,2,4,5-tetrachlorobenzene	36.2	0.500	"	50.0		72.3	40-140				
1,2,4-Trichlorobenzene	38.8	5.00	"	50.0		77.7	40-140				
2,4,6-Trichlorophenol	45.3	5.00	"	50.0		90.6	30-130				
2,4,5-Trichlorophenol	43.9	5.00	"	50.0		87.8	30-130				
<i>Surrogate: 2,4,6-Tribromophenol</i>	86.6		"	75.0		116	15-110				
<i>Surrogate: 2-Fluorobiphenyl</i>	39.9		"	50.0		79.8	30-130				
<i>Surrogate: 2-Fluorophenol</i>	28.8		"	75.0		38.3	15-110				
<i>Surrogate: Nitrobenzene-d5</i>	42.8		"	50.2		85.4	30-130				
<i>Surrogate: Phenol-d5</i>	20.3		"	75.1		27.1	15-110				
<i>Surrogate: Terphenyl-d14</i>	45.6		"	50.0		91.2	30-130				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
Matrix Spike (BC31101-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))						Prepared & Analyzed: 03/22/2013				
Acenaphthene	44.2	0.0541	ug/L	54.1	ND	81.7	40-140				
Acenaphthylene	42.7	0.0541	"	54.1	ND	79.1	40-140				
Aniline	28.8	5.41	"	54.1	ND	53.2	40-140				
Anthracene	44.9	0.0541	"	54.1	ND	83.0	40-140				
Benzo(a)anthracene	46.1	0.0541	"	54.1	ND	85.3	40-140				
Benzo(a)pyrene	54.8	0.0541	"	54.1	ND	101	40-140				
Benzo(b)fluoranthene	48.7	0.0541	"	54.1	ND	90.1	40-140				
Benzo(g,h,i)perylene	44.6	0.0541	"	54.1	ND	82.6	40-140				
Benzo(k)fluoranthene	58.8	0.0541	"	54.1	ND	109	40-140				
Benzyl butyl phthalate	42.9	5.41	"	54.1	ND	79.3	40-140				
4-Bromophenyl phenyl ether	44.6	5.41	"	54.1	ND	82.5	40-140				
Carbazole	50.6	5.41	"	54.1	ND	93.6	40-140				
4-Chloro-3-methylphenol	42.5	5.41	"	54.1	ND	78.7	30-130				
4-Chloroaniline	45.9	5.41	"	54.1	ND	85.0	40-140				
Bis(2-chloroethoxy)methane	46.3	5.41	"	54.1	ND	85.6	40-140				
Bis(2-chloroethyl)ether	46.7	5.41	"	54.1	ND	86.4	40-140				
Bis(2-chloroisopropyl)ether	46.2	5.41	"	54.1	ND	85.4	40-140				
2-Chloronaphthalene	43.3	5.41	"	54.1	ND	80.1	40-140				
2-Chlorophenol	39.5	5.41	"	54.1	ND	73.0	30-130				
4-Chlorophenyl phenyl ether	43.8	5.41	"	54.1	ND	80.9	40-140				
Chrysene	41.5	0.0541	"	54.1	ND	76.7	40-140				
Dibenzo(a,h)anthracene	53.3	0.0541	"	54.1	ND	98.6	40-140				
Dibenzofuran	44.2	5.41	"	54.1	ND	81.8	40-140				
Di-n-butyl phthalate	43.0	5.41	"	54.1	ND	79.6	40-140				
3,3'-Dichlorobenzidine	38.4	5.41	"	54.1	ND	71.1	40-140				
2,4-Dichlorophenol	44.5	5.41	"	54.1	ND	82.3	30-130				
Diethyl phthalate	44.7	5.41	"	54.1	ND	82.8	40-140				
2,4-Dimethylphenol	43.1	5.41	"	54.1	ND	79.8	30-130				
Dimethyl phthalate	45.0	5.41	"	54.1	ND	83.3	40-140				
4,6-Dinitro-2-methylphenol	54.0	10.8	"	54.1	ND	100	30-130				
2,4-Dinitrophenol	70.0	10.8	"	54.1	ND	129	30-130				
2,4-Dinitrotoluene	46.4	5.41	"	54.1	ND	85.9	40-140				
2,6-Dinitrotoluene	47.3	5.41	"	54.1	ND	87.4	40-140				
Di-n-octyl phthalate	44.2	5.41	"	54.1	ND	81.8	40-140				
Bis(2-ethylhexyl)phthalate	43.9	0.541	"	54.1	0.627	80.0	40-140				
Fluoranthene	46.0	0.0541	"	54.1	ND	85.1	40-140				
Fluorene	44.9	0.0541	"	54.1	ND	83.1	40-140				
Hexachlorobenzene	42.3	0.0541	"	54.1	ND	78.3	40-140				
Hexachlorobutadiene	43.4	5.41	"	54.1	ND	80.2	40-140				
Hexachlorocyclopentadiene	27.0	5.41	"	54.1	ND	49.9	40-140				
Hexachloroethane	40.9	0.541	"	54.1	ND	75.7	40-140				
Indeno(1,2,3-cd)pyrene	51.1	0.0541	"	54.1	ND	94.6	40-140				
Isophorone	45.3	5.41	"	54.1	ND	83.9	40-140				
2-Methylnaphthalene	46.6	5.41	"	54.1	ND	86.2	40-140				
2-Methylphenol	33.9	5.41	"	54.1	ND	62.7	30-130				
3- & 4-Methylphenols	28.8	5.41	"	54.1	ND	53.4	30-130				
Naphthalene	44.3	5.41	"	54.1	ND	82.0	40-140				
2-Nitroaniline	47.0	5.41	"	54.1	ND	86.9	40-140				
3-Nitroaniline	48.6	5.41	"	54.1	ND	89.8	40-140				
4-Nitroaniline	55.6	5.41	"	54.1	ND	103	40-140				
Nitrobenzene	46.5	5.41	"	54.1	ND	86.0	40-140				
2-Nitrophenol	47.8	5.41	"	54.1	ND	88.5	30-130				
4-Nitrophenol	3.07	5.41	"	54.1	ND	5.68	30-130	Low Bias			
N-nitroso-di-n-propylamine	46.3	5.41	"	54.1	ND	85.7	40-140				

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
Matrix Spike (BC31101-MS1)		*Source sample: 13C0564-04 (ELB-14 (OW))					Prepared & Analyzed: 03/22/2013				
N-Nitrosodiphenylamine	54.2	5.41	ug/L	54.1	ND	100	40-140				
Pentachloronitrobenzene	40.6	0.108	"	54.1	ND	75.2	40-140				
Pentachlorophenol	51.6	0.541	"	54.1	ND	95.5	30-130				
Phenanthrene	44.5	0.0541	"	54.1	ND	82.4	40-140				
Phenol	17.0	5.41	"	54.1	ND	31.4	30-130				
Pyrene	47.3	0.0541	"	54.1	ND	87.4	40-140				
Pyridine	9.14	0.108	"	54.1	ND	16.9	40-140	Low Bias			
1,2,4,5-tetrachlorobenzene	38.0	0.541	"	54.1	ND	70.2	40-140				
1,2,4-Trichlorobenzene	43.3	5.41	"	54.1	ND	80.2	40-140				
2,4,6-Trichlorophenol	45.2	5.41	"	54.1	ND	83.6	30-130				
2,4,5-Trichlorophenol	44.2	5.41	"	54.1	ND	81.8	30-130				
<i>Surrogate: 2,4,6-Tribromophenol</i>	88.7		"	81.1		109	15-110				
<i>Surrogate: 2-Fluorobiphenyl</i>	43.7		"	54.1		80.8	30-130				
<i>Surrogate: 2-Fluorophenol</i>	36.2		"	81.1		44.7	15-110				
<i>Surrogate: Nitrobenzene-d5</i>	50.9		"	54.3		93.9	30-130				
<i>Surrogate: Phenol-d5</i>	25.5		"	81.2		31.4	15-110				
<i>Surrogate: Terphenyl-d14</i>	52.6		"	54.1		97.3	30-130				
Matrix Spike Dup (BC31101-MSD1)		*Source sample: 13C0564-04 (ELB-14 (OW))					Prepared & Analyzed: 03/22/2013				
Acenaphthene	38.8	0.0541	ug/L	54.1	ND	71.7	40-140		13.0	20	
Acenaphthylene	37.9	0.0541	"	54.1	ND	70.1	40-140		12.0	20	
Aniline	22.1	5.41	"	54.1	ND	40.8	40-140		26.3	20	Non-dir.
Anthracene	41.1	0.0541	"	54.1	ND	76.1	40-140		8.68	20	
Benzo(a)anthracene	42.4	0.0541	"	54.1	ND	78.5	40-140		8.35	20	
Benzo(a)pyrene	50.8	0.0541	"	54.1	ND	94.0	40-140		7.63	20	
Benzo(b)fluoranthene	44.0	0.0541	"	54.1	ND	81.5	40-140		10.0	20	
Benzo(g,h,i)perylene	44.8	0.0541	"	54.1	ND	82.8	40-140		0.314	20	
Benzo(k)fluoranthene	45.1	0.0541	"	54.1	ND	83.4	40-140		26.4	20	Non-dir.
Benzyl butyl phthalate	37.7	5.41	"	54.1	ND	69.8	40-140		12.9	20	
4-Bromophenyl phenyl ether	41.5	5.41	"	54.1	ND	76.9	40-140		7.03	20	
Carbazole	45.4	5.41	"	54.1	ND	84.0	40-140		10.9	20	
4-Chloro-3-methylphenol	36.9	5.41	"	54.1	ND	68.3	30-130		14.2	20	
4-Chloroaniline	36.3	5.41	"	54.1	ND	67.2	40-140		23.3	20	Non-dir.
Bis(2-chloroethoxy)methane	39.6	5.41	"	54.1	ND	73.2	40-140		15.7	20	
Bis(2-chloroethyl)ether	39.0	5.41	"	54.1	ND	72.2	40-140		18.0	20	
Bis(2-chloroisopropyl)ether	39.8	5.41	"	54.1	ND	73.6	40-140		14.8	20	
2-Chloronaphthalene	37.8	5.41	"	54.1	ND	69.9	40-140		13.7	20	
2-Chlorophenol	33.4	5.41	"	54.1	ND	61.7	30-130		16.8	20	
4-Chlorophenyl phenyl ether	38.9	5.41	"	54.1	ND	72.0	40-140		11.7	20	
Chrysene	39.2	0.0541	"	54.1	ND	72.5	40-140		5.57	20	
Dibenzo(a,h)anthracene	52.1	0.0541	"	54.1	ND	96.4	40-140		2.30	20	
Dibenzofuran	38.9	5.41	"	54.1	ND	71.9	40-140		12.8	20	
Di-n-butyl phthalate	38.1	5.41	"	54.1	ND	70.5	40-140		12.1	20	
3,3'-Dichlorobenzidine	38.3	5.41	"	54.1	ND	70.8	40-140		0.366	20	
2,4-Dichlorophenol	38.5	5.41	"	54.1	ND	71.2	30-130		14.5	20	
Diethyl phthalate	38.5	5.41	"	54.1	ND	71.2	40-140		15.0	20	
2,4-Dimethylphenol	36.4	5.41	"	54.1	ND	67.3	30-130		17.0	20	
Dimethyl phthalate	39.5	5.41	"	54.1	ND	73.0	40-140		13.1	20	
4,6-Dinitro-2-methylphenol	49.8	10.8	"	54.1	ND	92.1	30-130		8.20	20	
2,4-Dinitrophenol	62.2	10.8	"	54.1	ND	115	30-130		11.8	20	
2,4-Dinitrotoluene	39.8	5.41	"	54.1	ND	73.7	40-140		15.2	20	
2,6-Dinitrotoluene	41.4	5.41	"	54.1	ND	76.7	40-140		13.1	20	
Di-n-octyl phthalate	38.1	5.41	"	54.1	ND	70.5	40-140		14.9	20	
Bis(2-ethylhexyl)phthalate	34.7	0.541	"	54.1	0.627	63.0	40-140		23.5	20	Non-dir.

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31101 - EPA 3510C											
Matrix Spike Dup (BC31101-MSD1)											
*Source sample: 13C0564-04 (ELB-14 (OW))				Prepared & Analyzed: 03/22/2013							
Fluoranthene	40.5	0.0541	ug/L	54.1	ND	74.8	40-140		12.9	20	
Fluorene	39.8	0.0541	"	54.1	ND	73.6	40-140		12.1	20	
Hexachlorobenzene	39.6	0.0541	"	54.1	ND	73.2	40-140		6.63	20	
Hexachlorobutadiene	37.7	5.41	"	54.1	ND	69.7	40-140		14.1	20	
Hexachlorocyclopentadiene	25.3	5.41	"	54.1	ND	46.7	40-140		6.58	20	
Hexachloroethane	36.0	0.541	"	54.1	ND	66.6	40-140		12.8	20	
Indeno(1,2,3-cd)pyrene	50.2	0.0541	"	54.1	ND	92.9	40-140		1.79	20	
Isophorone	39.1	5.41	"	54.1	ND	72.3	40-140		14.8	20	
2-Methylnaphthalene	39.8	5.41	"	54.1	ND	73.7	40-140		15.6	20	
2-Methylphenol	28.4	5.41	"	54.1	ND	52.6	30-130		17.7	20	
3- & 4-Methylphenols	24.5	5.41	"	54.1	ND	45.3	30-130		16.3	20	
Naphthalene	37.9	5.41	"	54.1	ND	70.1	40-140		15.7	20	
2-Nitroaniline	40.8	5.41	"	54.1	ND	75.5	40-140		14.1	20	
3-Nitroaniline	41.5	5.41	"	54.1	ND	76.7	40-140		15.8	20	
4-Nitroaniline	47.0	5.41	"	54.1	ND	86.9	40-140		16.8	20	
Nitrobenzene	39.5	5.41	"	54.1	ND	73.1	40-140		16.2	20	
2-Nitrophenol	40.1	5.41	"	54.1	ND	74.3	30-130		17.5	20	
4-Nitrophenol	2.94	5.41	"	54.1	ND	5.44	30-130	Low Bias	4.32	20	
N-nitroso-di-n-propylamine	39.2	5.41	"	54.1	ND	72.6	40-140		16.5	20	
N-Nitrosodiphenylamine	49.1	5.41	"	54.1	ND	90.8	40-140		10.0	20	
Pentachloronitrobenzene	36.0	0.108	"	54.1	ND	66.7	40-140		12.0	20	
Pentachlorophenol	44.8	0.541	"	54.1	ND	82.9	30-130		14.2	20	
Phenanthrene	40.6	0.0541	"	54.1	ND	75.1	40-140		9.27	20	
Phenol	9.97	5.41	"	54.1	ND	18.4	30-130	Low Bias	52.1	20	Non-dir.
Pyrene	41.0	0.0541	"	54.1	ND	75.8	40-140		14.2	20	
Pyridine	7.22	0.108	"	54.1	ND	13.4	40-140	Low Bias	23.4	20	Non-dir.
1,2,4,5-tetrachlorobenzene	33.2	0.541	"	54.1	ND	61.5	40-140		13.3	20	
1,2,4-Trichlorobenzene	37.5	5.41	"	54.1	ND	69.4	40-140		14.4	20	
2,4,6-Trichlorophenol	39.6	5.41	"	54.1	ND	73.3	30-130		13.1	20	
2,4,5-Trichlorophenol	39.1	5.41	"	54.1	ND	72.4	30-130		12.2	20	
<i>Surrogate: 2,4,6-Tribromophenol</i>	82.6		"	81.1		102	15-110				
<i>Surrogate: 2-Fluorobiphenyl</i>	39.0		"	54.1		72.1	30-130				
<i>Surrogate: 2-Fluorophenol</i>	31.3		"	81.1		38.5	15-110				
<i>Surrogate: Nitrobenzene-d5</i>	43.4		"	54.3		80.0	30-130				
<i>Surrogate: Phenol-d5</i>	22.1		"	81.2		27.3	15-110				
<i>Surrogate: Terphenyl-d14</i>	45.5		"	54.1		84.2	30-130				

Polychlorinated Biphenyls (PCB) by EPA SW 846-8082/EPA Compendium Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31036 - EPA SW846-3510C Low Level										
Blank (BC31036-BLK1)										
							Prepared & Analyzed: 03/21/2013			
Aroclor 1016	ND	0.0500	ug/L							
Aroclor 1221	ND	0.0500	"							
Aroclor 1232	ND	0.0500	"							
Aroclor 1242	ND	0.0500	"							
Aroclor 1248	ND	0.0500	"							
Aroclor 1254	ND	0.0500	"							
Aroclor 1260	ND	0.0500	"							
Total PCBs	ND	0.0500	"							
<i>Surrogate: Tetrachloro-m-xylene</i>	0.126		"	0.200		63.0	30-150			
<i>Surrogate: Decachlorobiphenyl</i>	0.136		"	0.201		67.7	30-150			
LCS (BC31036-BS1)										
							Prepared & Analyzed: 03/21/2013			
Aroclor 1016	0.768	0.0500	ug/L	1.00		76.8	40-140			
Aroclor 1260	0.663	0.0500	"	1.00		66.3	40-140			
<i>Surrogate: Tetrachloro-m-xylene</i>	0.128		"	0.200		64.0	30-150			
<i>Surrogate: Decachlorobiphenyl</i>	0.119		"	0.201		59.2	30-150			
Matrix Spike (BC31036-MS1)										
							Prepared & Analyzed: 03/21/2013			
*Source sample: 13C0564-04 (ELB-14 (OW))										
Aroclor 1016	0.462	0.0541	ug/L	1.08	ND	42.8	40-140			
Aroclor 1260	0.484	0.0541	"	1.08	ND	44.8	40-140			
<i>Surrogate: Tetrachloro-m-xylene</i>	0.101		"	0.216		46.5	30-150			
<i>Surrogate: Decachlorobiphenyl</i>	0.120		"	0.217		55.2	30-150			
Matrix Spike Dup (BC31036-MSD1)										
							Prepared & Analyzed: 03/21/2013			
*Source sample: 13C0564-04 (ELB-14 (OW))										
Aroclor 1016	0.447	0.0541	ug/L	1.08	ND	41.3	40-140	3.47	200	
Aroclor 1260	0.459	0.0541	"	1.08	ND	42.4	40-140	5.37	200	
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0941		"	0.216		43.5	30-150			
<i>Surrogate: Decachlorobiphenyl</i>	0.121		"	0.217		55.7	30-150			

Gas Chromatography/Flame Ionization Determination - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31034 - EPA SW846-3510C Low Level										
Blank (BC31034-BLK1)							Prepared: 03/21/2013 Analyzed: 03/22/2013			
ETPH (Extractable Total Petroleum Hydrocarbo	ND	0.0750	mg/L							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>0.0910</i>		"	<i>0.100</i>		<i>91.0</i>	<i>25.9-150</i>			
LCS (BC31034-BS1)							Prepared: 03/21/2013 Analyzed: 03/22/2013			
ETPH (Extractable Total Petroleum Hydrocarbo	0.721	0.0750	mg/L	0.750		96.1	60-120			
<i>Surrogate: 1-Chlorooctadecane</i>	<i>0.138</i>		"	<i>0.100</i>		<i>138</i>	<i>25.9-150</i>			
Matrix Spike (BC31034-MS1)							Prepared: 03/21/2013 Analyzed: 03/22/2013			
<i>*Source sample: 13C0564-04 (ELB-14 (OW))</i>										
ETPH (Extractable Total Petroleum Hydrocarbo	0.561	0.0811	mg/L	0.811	ND	69.2	50-150			
<i>Surrogate: 1-Chlorooctadecane</i>	<i>0.107</i>		"	<i>0.108</i>		<i>99.0</i>	<i>25.9-150</i>			
Matrix Spike Dup (BC31034-MSD1)							Prepared: 03/21/2013 Analyzed: 03/22/2013			
<i>*Source sample: 13C0564-04 (ELB-14 (OW))</i>										
ETPH (Extractable Total Petroleum Hydrocarbo	0.551	0.0811	mg/L	0.811	ND	68.0	50-150	1.75	30	
<i>Surrogate: 1-Chlorooctadecane</i>	<i>0.107</i>		"	<i>0.108</i>		<i>98.8</i>	<i>25.9-150</i>			

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BC31230 - EPA 3010A

Blank (BC31230-BLK1)

Prepared & Analyzed: 03/26/2013

Antimony	ND	0.001	mg/L
Arsenic	ND	0.001	"
Barium	ND	0.001	"
Beryllium	ND	0.0001	"
Cadmium	ND	0.0005	"
Chromium	ND	0.001	"
Copper	ND	0.001	"
Lead	ND	0.001	"
Nickel	ND	0.001	"
Selenium	ND	0.001	"
Silver	ND	0.001	"
Thallium	ND	0.001	"
Vanadium	ND	0.001	"
Zinc	ND	0.001	"

Duplicate (BC31230-DUP1)

*Source sample: 13C0564-04 (ELB-14 (OW))

Prepared & Analyzed: 03/26/2013

Antimony	0.0001	0.001	mg/L	ND	20		
Arsenic	0.001	0.001	"	0.001	22.5	20	Non-dir.
Barium	0.144	0.001	"	0.143	1.29	20	
Beryllium	0.00005	0.0001	"	0.00006	12.4	20	
Cadmium	0.001	0.0005	"	0.001	2.56	20	
Chromium	0.005	0.001	"	0.005	3.25	20	
Copper	0.019	0.001	"	0.018	0.962	20	
Lead	0.0006	0.001	"	0.0009	32.7	20	Non-dir.
Nickel	0.023	0.001	"	0.024	2.68	20	
Selenium	0.003	0.001	"	0.003	0.986	20	
Silver	0.00009	0.001	"	0.00009	1.53	20	
Thallium	0.0002	0.001	"	0.0002	3.94	20	
Vanadium	0.002	0.001	"	0.002	31.1	20	Non-dir.
Zinc	0.017	0.001	"	0.017	0.868	20	

Metals by EPA 6000 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC %REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BC31230 - EPA 3010A

Matrix Spike (BC31230-MS1)	*Source sample: 13C0564-04 (ELB-14 (OW))						Prepared & Analyzed: 03/26/2013				
Antimony	0.171	0.001	mg/L	0.200	ND	85.6	75-125				
Arsenic	0.109	0.001	"	0.100	0.001	108	75-125				
Barium	0.578	0.001	"	0.500	0.143	87.1	75-125				
Beryllium	0.061	0.0001	"	0.0500	0.00006	121	75-125				
Cadmium	0.044	0.0005	"	0.0500	0.001	86.1	75-125				
Chromium	0.196	0.001	"	0.200	0.005	95.3	75-125				
Copper	0.185	0.001	"	0.200	0.018	83.2	75-125				
Lead	0.077	0.001	"	0.100	0.0009	75.7	75-125				
Nickel	0.215	0.001	"	0.200	0.024	95.5	75-125				
Selenium	0.057	0.001	"	0.0500	0.003	107	75-125				
Silver	0.038	0.001	"	0.0500	0.00009	75.7	75-125				
Thallium	0.038	0.001	"	0.0500	0.0002	75.0	75-125				
Vanadium	0.198	0.001	"	0.200	0.002	97.7	75-125				
Zinc	0.443	0.001	"	0.500	0.017	85.1	75-125				

Reference (BC31230-SRM1)	Prepared & Analyzed: 03/26/2013										
Antimony	0.040	0.001	mg/L	0.0450		89.4	70-130				
Arsenic	0.017	0.001	"	0.0133		126	70-130				
Barium	1.90	0.001	"	1.82		104	85.2-115				
Beryllium	0.008	0.0001	"	0.00764		106	84.9-115				
Cadmium	0.013	0.0005	"	0.0141		94.4	80.1-120				
Chromium	0.074	0.001	"	0.0729		102	85-115				
Copper	0.508	0.001	"	0.521		97.6	90-110				
Lead	0.012	0.001	"	0.0130		95.0	70-130				
Nickel	0.097	0.001	"	0.0981		99.1	85-115				
Selenium	0.090	0.001	"	0.0913		98.5	80-120				
Silver	0.233	0.001	"	0.245		95.0	88.6-111				
Thallium	0.006	0.001	"	0.00611		95.7	70-130				
Vanadium	1.26	0.001	"	1.31		95.9	90.1-110				
Zinc	1.10	0.001	"	1.07		102	90-110				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BC31045 - EPA SW846-7470										
Blank (BC31045-BLK1)							Prepared & Analyzed: 03/22/2013			
Mercury	ND	0.0002	mg/L							
LCS (BC31045-BS1)							Prepared & Analyzed: 03/22/2013			
Mercury	0.002054	0.0002	mg/L	0.00200		103		80-120		
Duplicate (BC31045-DUP1) *Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
Mercury	ND	0.0002	mg/L		ND				20	
Matrix Spike (BC31045-MS1) *Source sample: 13C0564-04 (ELB-14 (OW))							Prepared & Analyzed: 03/22/2013			
Mercury	0.0018	0.0002	mg/L	0.00200	ND	91.4		75-125		

DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

<i>Laboratory Name:</i>	York Analytical Laboratories, Inc.	<i>Client:</i>	Langan Engineering & Environmental Serv
<i>Project Location:</i>	140068601	<i>Lab Project No.:</i>	13C0564
<i>Laboratory Sample ID(s):</i>	13C0564-01 - 13C0564-07	<i>Sampling Date(s):</i>	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	<p>QC Sample BC31222-BLK1 failed criteria for Acetone in Volatile Organics, CT RCP List. MDL = 0.90 ug/L MRL = 2.0 ug/L Result = 4.7 ug/L Criterion = 1 x MDL</p> <p>QC Sample BC31255-BLK1 failed criteria for Acetone in Volatile Organics, CT RCP List. MDL = 0.90 ug/L MRL = 2.0 ug/L Result = 1.5 ug/L Criterion = 1 x MDL</p> <p>QC Sample BC31222-BLK1 failed criteria for Methylene chloride in Volatile Organics, CT RCP List. MDL = 0.26 ug/L MRL = 2.0 ug/L Result = 2.9 ug/L Criterion = 1 x MDL</p> <p>QC Sample BC31222-BLK1 failed criteria for Naphthalene in Volatile Organics, CT RCP List. MDL = 0.090 ug/L MRL = 2.0 ug/L Result = 0.64 ug/L Criterion = 1 x MDL</p>

DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

<i>Laboratory Name:</i>	York Analytical Laboratories, Inc.	<i>Client:</i>	Langan Engineering & Environmental Serv
<i>Project Location:</i>	140068601	<i>Lab Project No.:</i>	13C0564
<i>Laboratory Sample ID(s):</i>	13C0564-01 - 13C0564-07	<i>Sampling Date(s):</i>	03/19/2013 - 03/19/2013

Describe the intended use of the data:
 The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
<p>Laboratory Control Samples Recovery Evaluation</p>	<p>LCS Recovery for 2-Hexanone (67.7%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for 4-Methyl-2-pentanone (57.6%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for Bromomethane (56.3%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for Chloroethane (69.7%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for Chloromethane (64.6%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for Dichlorodifluoromethane (59.3%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List</p>

DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

<i>Laboratory Name:</i>	York Analytical Laboratories, Inc.	<i>Client:</i>	Langan Engineering & Environmental Serv
<i>Project Location:</i>	140068601	<i>Lab Project No.:</i>	13C0564
<i>Laboratory Sample ID(s):</i>	13C0564-01 - 13C0564-07	<i>Sampling Date(s):</i>	03/19/2013 - 03/19/2013

Describe the intended use of the data:
 The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	<p>- This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for Methyl Methacrylate (65.0%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List</p> <p>- This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for Tetrahydrofuran (39.8%) was outside acceptance limits (70-130) in BC31222-BS1 for Volatile Organics, CT RCP List</p> <p>- This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for 2-Hexanone (68.4%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List</p> <p>- This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for 4-Methyl-2-pentanone (59.7%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List</p> <p>- This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for Bromomethane (56.8%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List</p> <p>- This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p>

DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

<i>Laboratory Name:</i>	York Analytical Laboratories, Inc.	<i>Client:</i>	Langan Engineering & Environmental Serv
<i>Project Location:</i>	140068601	<i>Lab Project No.:</i>	13C0564
<i>Laboratory Sample ID(s):</i>	13C0564-01 - 13C0564-07	<i>Sampling Date(s):</i>	03/19/2013 - 03/19/2013

Describe the intended use of the data:
 The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	<p>nature.</p> <p>LCS Recovery for Chloroethane (68.2%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for Chloromethane (63.8%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for Dichlorodifluoromethane (57.2%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for Methyl Methacrylate (67.3%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for Tetrahydrofuran (41.7%) was outside acceptance limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for Vinyl Chloride (68.6%) was outside acceptance</p>

DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

<i>Laboratory Name:</i>	York Analytical Laboratories, Inc.	<i>Client:</i>	Langan Engineering & Environmental Serv
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<i>Laboratory Sample ID(s):</i>	13C0564-01 - 13C0564-07	<i>Sampling Date(s):</i>	03/19/2013 - 03/19/2013

Describe the intended use of the data:
 The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	<p>limits (70-130) in BC31222-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for 1,2,4-Trimethylbenzene (154%) was outside acceptance limits (70-130) in BC31255-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for Styrene (154%) was outside acceptance limits (70-130) in BC31255-BS1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for 1,2,4-Trimethylbenzene (163%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for 1,2-Dibromo-3-chloropropane (69.0%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for 4-Methyl-2-pentanone (67.9%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference</p>

DATA QUALITY ASSESSMENT WORKSHEET - VOLATILES

<i>Laboratory Name:</i>	York Analytical Laboratories, Inc.	<i>Client:</i>	Langan Engineering & Environmental Serv
<i>Project Location:</i>	140068601	<i>Lab Project No.:</i>	13C0564
<i>Laboratory Sample ID(s):</i>	13C0564-01 - 13C0564-07	<i>Sampling Date(s):</i>	03/19/2013 - 03/19/2013

Describe the intended use of the data:
 The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	<p>method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for Acetone (68.9%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for Styrene (151%) was outside acceptance limits (70-130) in BC31255-BSD1 for Volatile Organics, CT RCP List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p>
Laboratory Control Samples Precision Evaluation	NONE
Surrogate Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NOT APPLICABLE
Site Specific Matrix Spike Precision Evaluation	NOT APPLICABLE
Tentatively Identified Compounds	NOT APPLICABLE

DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

<i>Laboratory Name:</i>	York Analytical Laboratories, Inc.	<i>Client:</i>	Langan Engineering & Environmental Serv
<i>Project Location:</i>	140068601	<i>Lab Project No.:</i>	13C0564
<i>Laboratory Sample ID(s):</i>	13C0564-01 - 13C0564-07	<i>Sampling Date(s):</i>	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	<p>LCS Recovery for 2,4-Dinitrophenol (133%) was outside acceptance limits (30-130) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for 4-Nitrophenol (29.4%) was outside acceptance limits (30-130) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for Phenol (21.6%) was outside acceptance limits (30-130) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p> <p>LCS Recovery for Pyridine (21.1%) was outside acceptance limits (40-140) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.</p>
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE

DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

<i>Laboratory Name:</i>	York Analytical Laboratories, Inc.	<i>Client:</i>	Langan Engineering & Environmental Serv
<i>Project Location:</i>	140068601	<i>Lab Project No.:</i>	13C0564
<i>Laboratory Sample ID(s):</i>	13C0564-01 - 13C0564-07	<i>Sampling Date(s):</i>	03/19/2013 - 03/19/2013

Describe the intended use of the data:
 The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
Surrogate Recovery Evaluation	Surrogate Recovery for 2,4,6-Tribromophenol (116%) was outside acceptance limits (15-110) in BC31101-BS1 for Semi-Volatiles, CT RCP BNA List - The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

<i>Laboratory Name:</i>	York Analytical Laboratories, Inc.	<i>Client:</i>	Langan Engineering & Environmental Serv
<i>Project Location:</i>	140068601	<i>Lab Project No.:</i>	13C0564
<i>Laboratory Sample ID(s):</i>	13C0564-01 - 13C0564-07	<i>Sampling Date(s):</i>	03/19/2013 - 03/19/2013

Describe the intended use of the data:
 The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
Site Specific Matrix Spike Recovery Evaluation	<p>Matrix Spike Recovery for 4-Nitrophenol (5.68%) was outside acceptance limits (30-130) in BC31101-MS1 for Semi-Volatiles, CT RCP BNA List</p> <p>- The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.</p> <p>Matrix Spike Recovery for Pyridine (16.9%) was outside acceptance limits (40-140) in BC31101-MS1 for Semi-Volatiles, CT RCP BNA List</p> <p>- The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.</p> <p>Matrix Spike Recovery for 4-Nitrophenol (5.44%) was outside acceptance limits (30-130) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List</p> <p>- The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.</p> <p>Matrix Spike Recovery for Phenol (18.4%) was outside acceptance limits (30-130) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List</p> <p>- The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.</p> <p>Matrix Spike Recovery for Pyridine (13.4%) was outside acceptance limits (40-140) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List</p> <p>- The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.</p>

DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

<i>Laboratory Name:</i>	York Analytical Laboratories, Inc.	<i>Client:</i>	Langan Engineering & Environmental Serv
<i>Project Location:</i>	140068601	<i>Lab Project No.:</i>	13C0564
<i>Laboratory Sample ID(s):</i>	13C0564-01 - 13C0564-07	<i>Sampling Date(s):</i>	03/19/2013 - 03/19/2013

Describe the intended use of the data:
 The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
<p>Site Specific Matrix Spike Precision Evaluation</p>	<p>Matrix Spike Duplicate RPD for 4-Chloroaniline (23.3%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.</p> <p>Matrix Spike Duplicate RPD for Aniline (26.3%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.</p> <p>Matrix Spike Duplicate RPD for Benzo(k)fluoranthene (26.4%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.</p> <p>Matrix Spike Duplicate RPD for Bis(2-ethylhexyl)phthalate (23.5%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.</p> <p>Matrix Spike Duplicate RPD for Phenol (52.1%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List - The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.</p> <p>Matrix Spike Duplicate RPD for Pyridine (23.4%) was above the acceptance limit (20) in BC31101-MSD1 for Semi-Volatiles, CT RCP BNA List</p>

DATA QUALITY ASSESSMENT WORKSHEET - SEMI-VOLATILES

<i>Laboratory Name:</i>	York Analytical Laboratories, Inc.	<i>Client:</i>	Langan Engineering & Environmental Serv
<i>Project Location:</i>	140068601	<i>Lab Project No.:</i>	13C0564
<i>Laboratory Sample ID(s):</i>	13C0564-01 - 13C0564-07	<i>Sampling Date(s):</i>	03/19/2013 - 03/19/2013

Describe the intended use of the data:
 The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
	- The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
Tentatively Identified Compounds	NOT APPLICABLE

DATA QUALITY ASSESSMENT WORKSHEET - PCBs

Laboratory Name: York Analytical Laboratories, Inc. *Client:* Langan Engineering & Environmental Serv
Project Location: 140068601 *Lab Project No.:* **13C0564**
Laboratory Sample ID(s): 13C0564-01 - 13C0564-07 *Sampling Date(s):* 03/19/2013 - 03/19/2013

Describe the intended use of the data:
 The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain Of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NONE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Surrogate Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NONE
Tentatively Identified Compounds	NOT APPLICABLE

DATA QUALITY ASSESSMENT WORKSHEET - ETPH

Laboratory Name: York Analytical Laboratories, Inc. *Client:* Langan Engineering & Environmental Serv
Project Location: 140068601 *Lab Project No.:* **13C0564**
Laboratory Sample ID(s): 13C0564-01 - 13C0564-07 *Sampling Date(s):* 03/19/2013 - 03/19/2013

Describe the intended use of the data:
 The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NONE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Surrogate Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NONE
Tentatively Identified Compounds	NOT APPLICABLE

DATA QUALITY ASSESSMENT WORKSHEET - METALS

<i>Laboratory Name:</i>	York Analytical Laboratories, Inc.	<i>Client:</i>	Langan Engineering & Environmental Serv
<i>Project Location:</i>	140068601	<i>Lab Project No.:</i>	13C0564
<i>Laboratory Sample ID(s):</i>	13C0564-01 - 13C0564-07	<i>Sampling Date(s):</i>	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NONE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Standard Reference Material Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NOT APPLICABLE
Duplicate Precision Evaluation	Duplicate RPD for Arsenic (22.5%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP Duplicate RPD for Lead (32.7%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP Duplicate RPD for Vanadium (31.1%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP

DATA QUALITY ASSESSMENT WORKSHEET - MERCURY

<i>Laboratory Name:</i>	York Analytical Laboratories, Inc.	<i>Client:</i>	Langan Engineering & Environmental Serv
<i>Project Location:</i>	140068601	<i>Lab Project No.:</i>	13C0564
<i>Laboratory Sample ID(s):</i>	13C0564-01 - 13C0564-07	<i>Sampling Date(s):</i>	03/19/2013 - 03/19/2013

Describe the intended use of the data:
The intended use of this data is determined by the project conceptual site model.

Data Quality Assessment Elements	Data Quality Assessment Nonconformances
STANDARD RCP DELIVERABLES	NONE
Data Package Inspection	NONE
Reasonable Confidence Evaluation	NONE
Chain of Custody Evaluation	NONE
Sample Result Evaluation	NONE
Sample Preservation and Holding Time Evaluation	NONE
Method Blank Evaluation	NONE
Laboratory Control Samples Recovery Evaluation	NONE
Laboratory Control Samples Precision Evaluation	NOT APPLICABLE
Standard Reference Material Recovery Evaluation	NONE
Site Specific Matrix Spike Recovery Evaluation	NONE
Site Specific Matrix Spike Precision Evaluation	NOT APPLICABLE
Duplicate Precision Evaluation	Duplicate RPD for Arsenic (22.5%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP Duplicate RPD for Lead (32.7%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP Duplicate RPD for Vanadium (31.1%) was above the acceptance limit (20) in BC31230-DUP1 for Metals, CTDEP RCP

DATA QUALITY ASSESSMENT SUMMARY

Laboratory:	York Analytical Laboratories, Inc.	Client:	Langan Engineering & Environmental Services (
Project:	140068601	Lab Project No:	13C0564
Laboratory Sample ID(s):	13C0564-01 - 13C0564-07	Sampling Date(s):	03/19/2013 - 03/19/2013
Review Date(s):	04/01/2013 - 04/01/2013	Laboratory Reviewer(s):	JD

QC Sample Nonconformances

Batch ID: BC31222

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31222-BS1	2-Hexanone	6.8 ug/L	LCS	67.7	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	4-Methyl-2-pentanone	5.8 ug/L	LCS	57.6	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Bromomethane	5.6 ug/L	LCS	56.3	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Chloroethane	7.0 ug/L	LCS	69.7	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Chloromethane	6.5 ug/L	LCS	64.6	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Batch ID: BC31222

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31222-BS1	Dichlorodifluoromethane	5.9 ug/L	LCS	59.3	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Methyl Methacrylate	6.5 ug/L	LCS	65.0	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BS1	Tetrahydrofuran	4.0 ug/L	LCS	39.8	70-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	2-Hexanone	6.8 ug/L	LCS Dup	68.4	70-130	Low Bias	1.03	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	4-Methyl-2-pentanone	6.0 ug/L	LCS Dup	59.7	70-130	Low Bias	3.58	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Bromomethane	5.7 ug/L	LCS Dup	56.8	70-130	Low Bias	0.884	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

YORK

ANALYTICAL LABORATORIES, INC.

Batch ID: BC31222

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31222-BSD1	Chloroethane	6.8 ug/L	LCS Dup	68.2	70-130	Low Bias	2.18	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Chloromethane	6.4 ug/L	LCS Dup	63.8	70-130	Low Bias	1.25	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Dichlorodifluoromethane	5.7 ug/L	LCS Dup	57.2	70-130	Low Bias	3.61	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Methyl Methacrylate	6.7 ug/L	LCS Dup	67.3	70-130	Low Bias	3.48	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Tetrahydrofuran	4.2 ug/L	LCS Dup	41.7	70-130	Low Bias	4.66	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31222-BSD1	Vinyl Chloride	6.9 ug/L	LCS Dup	68.6	70-130	Low Bias	2.45	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

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ANALYTICAL LABORATORIES, INC.

Batch ID: BC31255

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31255-BS1	1,2,4-Trimethylbenzene	15 ug/L	LCS	154	70-130	High Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BS1	Styrene	15 ug/L	LCS	154	70-130	High Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BS1	1,2,4-Trimethylbenzene	16 ug/L	LCS Dup	163	70-130	High Bias	5.74	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BS1	1,2-Dibromo-3-chloropropane	6.9 ug/L	LCS Dup	69.0	70-130	Low Bias	6.18	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BS1	4-Methyl-2-pentanone	6.8 ug/L	LCS Dup	67.9	70-130	Low Bias	10.1	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31255-BS1	Acetone	6.9 ug/L	LCS Dup	68.9	70-130	Low Bias	14.0	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

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Batch ID: BC31255

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31255-bsd1	Styrene	15 ug/L	LCS Dup	151	70-130	High Bias	2.04	30		This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.

Batch ID: BC31101

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31101-BS1	2,4-Dinitrophenol	66.4 ug/L	LCS	133	30-130	High Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31101-BS1	4-Nitrophenol	14.7 ug/L	LCS	29.4	30-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31101-BS1	Phenol	10.8 ug/L	LCS	21.6	30-130	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
BC31101-BS1	Pyridine	10.5 ug/L	LCS	21.1	40-140	Low Bias				This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
	Surrogate: 2,4,6-Tribromophenol	86.6 ug/L	Surrogate	116	15-110	High Bias				The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BC31101-MS1	4-Nitrophenol	3.07 ug/L	Matrix Spike (ELB-14 (OW))	5.68	30-130	Low Bias				The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

Batch ID: BC31101

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31101-MS1	Pyridine	9.14 ug/L	Matrix Spike (ELB-14 (OW))	16.9	40-140	Low Bias				The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	Aniline	22.1 ug/L	Matrix Spike Dup (ELB-14 (OW))	40.8	40-140		26.3	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	Benzo(k)fluoranthene	45.1 ug/L	Matrix Spike Dup (ELB-14 (OW))	83.4	40-140		26.4	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	4-Chloroaniline	36.3 ug/L	Matrix Spike Dup (ELB-14 (OW))	67.2	40-140		23.3	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	Bis(2-ethylhexyl)phthalate	34.7 ug/L	Matrix Spike Dup (ELB-14 (OW))	63.0	40-140		23.5	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	4-Nitrophenol	2.94 ug/L	Matrix Spike Dup (ELB-14 (OW))	5.44	30-130	Low Bias	4.32	20		The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

YORK

ANALYTICAL LABORATORIES, INC.

Batch ID: BC31101

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31101-MSD1	Phenol	9.97 ug/L	Matrix Spike Dup (ELB-14 (OW))	18.4	30-130	Low Bias	52.1	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
BC31101-MSD1	Pyridine	7.22 ug/L	Matrix Spike Dup (ELB-14 (OW))	13.4	40-140	Low Bias	23.4	20	Non-dir.	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.

Batch ID: BC31230

QC Sample ID	Analyte	Result	Type of QC Nonconformance	%REC	%REC Limits	Bias	RPD	RPD Limit	Bias	Comments
BC31230-DUP1	Arsenic	0.001 mg/L	Duplicate (ELB-14 (OW))				22.5	20	Non-dir.	
BC31230-DUP1	Lead	0.0006 mg/L	Duplicate (ELB-14 (OW))				32.7	20	Non-dir.	
BC31230-DUP1	Vanadium	0.002 mg/L	Duplicate (ELB-14 (OW))				31.1	20	Non-dir.	
BC31230-MS1	Thallium	0.038 mg/L	Matrix Spike (ELB-14 (OW))	75.0	75-125	Low Bias				

No Sample Nonconformances Found

Notes: Other RCP nonconformances, if any, are detailed in the Data Quality Assessment worksheets.

For multiple surrogate analyses such as semi-volatiles, volatiles, etc, single surrogate excursions do not necessarily indicate a bias in the sample. Samples with multiple surrogate excursions may exhibit a bias in the results.

Definitions: LCS - Laboratory Control Sample
LCS dup - Laboratory Control Sample Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
BS - Blank Spike also called LCS
BSD - Blank Spike Duplicate also called LCS dup
SRM - Standard Reference Material
DUP - Duplicate

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

ND	Analyte NOT DETECTED at the stated Reporting Limit (RL) or above.
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
MDL	METHOD DETECTION LIMIT - the minimum concentration that can be measured and reported with a 99% confidence that the concentration is greater than zero. If requested or required, a value reported below the RL and above the MDL is considered estimated and is noted with a "J" flag.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions unless superseded by written contract.

YOUR Information Company: <u>Langan Eng.</u> Address: <u>555 Long Wharf Drive</u> <u>New Haven, CT 06511</u> Phone No: <u>203-562-5771</u> Contact Person: <u>K. Zelaski</u> E-Mail Address: <u>kzelaski@langan.com</u>		Report To: Company: <u>same</u> Address: _____ Phone No: _____ Attention: _____ E-Mail Address: _____		Invoice To: Company: <u>same</u> Address: _____ Phone No: _____ Attention: _____ E-Mail Address: _____		YOUR Project ID Purchase Order No. <u>140068601</u> Purchase Order No. <u>140068601</u> Samples from: <u>CT</u> <u>X</u> <u>NY</u> <u>NU</u>		Turn-Around Time RUSH - Same Day <input type="checkbox"/> RUSH - Next Day <input type="checkbox"/> RUSH - Two Day <input type="checkbox"/> RUSH - Three Day <input type="checkbox"/> RUSH - Four Day <input type="checkbox"/> Standard(5-7 Days) <input checked="" type="checkbox"/>		Report Type Summary Report <input type="checkbox"/> Summary w/ QA Summary <input type="checkbox"/> CT RCP Package <input type="checkbox"/> CTRCP DOA/DUE Pkg <input checked="" type="checkbox"/> <u>PLF</u> NY ASP A Package <input type="checkbox"/> NY ASP B Package <input type="checkbox"/> NJDEP Red. Deliv. <input type="checkbox"/> Electronic Data Deliverables (EDD) <input type="checkbox"/> Simple Excel <input type="checkbox"/> NYSEDEC EQulS <input type="checkbox"/> EQulS (std) <input type="checkbox"/> EZ-EDD (EQulS) <input type="checkbox"/> NJDEP SRP HazSite EDD <input type="checkbox"/> GIS/KEY (std) <input type="checkbox"/> Other <input type="checkbox"/> York Regulatory Comparison <input type="checkbox"/> Excel Spreadsheet <input checked="" type="checkbox"/> <u>PLF</u> Compare to the following Regs./Order Ref. list:					
Matrix Codes S - soil Other - specify (oil, etc.) WW - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor		Volatiles TICs <input checked="" type="checkbox"/> Site Spec. <input type="checkbox"/> STARS list <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input type="checkbox"/> TCL list <input type="checkbox"/> TAGM list <input type="checkbox"/> CT RCP list <input type="checkbox"/> Arom. only <input type="checkbox"/> Haloar. only <input type="checkbox"/> App. IX list <input type="checkbox"/> 8021B list <input type="checkbox"/>		Semi-Vols. EPA 025 <input checked="" type="checkbox"/> STARS list <input type="checkbox"/> BN Only <input type="checkbox"/> Acids Only <input type="checkbox"/> PAH list <input type="checkbox"/> TAGM list <input type="checkbox"/> CT RCP list <input type="checkbox"/> Site Spec. <input type="checkbox"/> SPL for TCLP <input type="checkbox"/> TCLP list <input type="checkbox"/> NJDEP list <input type="checkbox"/> App. IX <input type="checkbox"/> TCLP BNA <input type="checkbox"/> SPL for TCLP <input type="checkbox"/>		Post/PCB list 408 PCB <input checked="" type="checkbox"/> 808 Pest <input type="checkbox"/> 815 Herb <input type="checkbox"/> CT RCP <input type="checkbox"/> App. IX <input type="checkbox"/> Site Spec. <input type="checkbox"/> SPL for TCLP <input type="checkbox"/> TCLP Pest <input type="checkbox"/> TCLP Herb <input type="checkbox"/> Chlordane <input type="checkbox"/> 608 Pest <input type="checkbox"/> 608 PCB <input type="checkbox"/>		Metals RCRA8 <input type="checkbox"/> PF13 list <input type="checkbox"/> TAL <input type="checkbox"/> CT ETPH <input checked="" type="checkbox"/> NY 310-13 <input type="checkbox"/> TPH 1664 <input type="checkbox"/> Air TO14A <input type="checkbox"/> Air TO15 <input type="checkbox"/> Air STARS <input type="checkbox"/> Air VPH <input type="checkbox"/> Air TICs <input type="checkbox"/> Medium <input type="checkbox"/> Helium <input type="checkbox"/>		Misc. Org. TPH GRO <input type="checkbox"/> TPH DRO <input type="checkbox"/> Misc. Org. <input type="checkbox"/>		Full Lists PHL Poll <input type="checkbox"/> TCL Organics <input type="checkbox"/> TAL Assoc N <input type="checkbox"/> Full TCLP <input type="checkbox"/> Full App IX <input type="checkbox"/> Part 300-400s <input type="checkbox"/> Part 300-400s <input type="checkbox"/> Part 300-400s <input type="checkbox"/> Part 300-400s <input type="checkbox"/> NYDEP <input type="checkbox"/> NYSEDEC <input type="checkbox"/> TAGM <input type="checkbox"/> Silica <input type="checkbox"/>		Container Descriptors (s) 2 VOAs 3 VOAs, 3 rd Aroar, 1 Semi- plastic	
Choose Analyses Needed from the Menu Above and Enter Below															
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Temperature on Receipt 3.4 °C		Samples Relinquished By <u>Kyle Zelascki</u> Date/Time <u>7/13 14:20</u> Samples Relinquished By <u>Chino</u> Date/Time <u>3/20/13 14:20</u>		Samples Relinquished By _____ Date/Time _____ Samples Relinquished By _____ Date/Time _____											



Appendix I:
Environmental Site Assessment

PHASE I ENVIRONMENTAL SITE ASSESSMENT

**488, 496, 506 & 516 Boston Post Road
4, 9, 14, 22 & 23 Daytona Street
14, 20-22, 24, 34, 38 & 46 Rockview Street
3, 6, 7, 13 & 20 Waban Street
West Haven, Connecticut**

Prepared For:

**Svigals + Partners
Architecture + Art
84 Orange Street
New Haven, Connecticut**

Prepared By:

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**Commencement Date: 12 March 2013
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EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was prepared by Langan Engineering and Environmental Services, Inc. (Langan) on behalf of Svigals + Partners, Architecture + Art (Svigals) to identify current or potential environmental concerns relating to the "Subject Property" located at 488, 496, 506 and 516 Boston Post Road; 4, 9, 14, 22, and 23 Daytona Street; 14, 20-22, 24, 34, 38 & 46 Rockview Street; and 3, 6, 7, 13 & 20 Waban Street in the City of West Haven, New Haven County, Connecticut. The Subject Property also consists of two "paper" streets owned by the City of West Haven: Daytona Street and Waban Street. A Site Location Map is included as Figure 1 and an Existing Conditions Plan as Figure 2. The Subject Property consists of 20 tax lots covering approximately 4.8-acres in West Haven, and is improved according to the table below:

Address	Map/Block	Property Improvements
488 Boston Post Road ⁽¹⁾	59/212	One-story commercial building with associated paved parking and landscaped area
496 Boston Post Road ⁽¹⁾	59/213	One-story commercial building with associated paved parking and landscaped area
506 Boston Post Road ⁽¹⁾	59/214	Multi-story residence with separate one-story garage, one-story shed, landscaped area, and gravel driveway
516 Boston Post Road ⁽¹⁾	59/215	Undeveloped lot with partially constructed building (foundation only)
4 Daytona Street	59/220	Paved parking lot with perimeter fencing, landscaping and drainage system
9 Daytona Street	59/218	Partially cleared lot used for material storage
14 Daytona Street	59/221	Paved parking lot with perimeter fencing, landscaping and drainage system
22 Daytona Street	59/222	Undeveloped lot
23 Daytona Street	59/217	Undeveloped lot
14 Rockview Street	59/216	Multi-story residence with landscaped area, and gravel driveway
20-22 Rockview Street	53/67	Multi-story residence with landscaped area and gravel driveway
24 Rockview Street	59/232	Multi-story residence with, landscaped area, and asphalt paved driveway
34 Rockview Street	59/223	Multi-story residence with landscaped area, and asphalt paved driveway
38 Rockview Street	59/224	Multi-story residence with landscaped area, and asphalt paved driveway

46 Rockview Street	59/225	Multi-story residence with single-bay garage, landscaped area, and asphalt paved driveway
3 Waban Street	59/229	Paved parking lot with perimeter fencing, landscaping and drainage system
6 Waban Street	59/230	Undeveloped lot with wetlands
7 Waban Street	59/228	Paved parking lot with perimeter fencing, landscaping and drainage system
13 Waban Street	59/227	Paved parking lot with perimeter fencing, landscaping and drainage system
20 Waban Street	59/231	Undeveloped lot with partially constructed building (foundation only)

1) Portions of Boston Post Road were formerly known as Orange Avenue

This Phase I ESA was conducted in accordance with American Society of Testing and Materials (ASTM) 1527-05, and included a site inspection, review of readily available historical records at the local and state agencies, completion of a federal/state/local environmental database search, and interviews with local and state agencies in order to assess current and past site conditions. This Phase I ESA was completed to update our 21 May 2012 Phase I ESA Report. The residential property located at 34 Rockview Street was inaccessible at the time of the site inspection; therefore, it is recommended that an interior inspection be conducted when access is permitted.

Based on information obtained during the visual inspection of the Subject Property, review of environmental databases and historic information, and contact with federal/state/local official agencies, the following RECs were identified:

Recognized Environmental Conditions

It is the opinion of the environmental professional that the following represent recognized environmental conditions:

REC#1 –Former Site Uses/Activities at 488 Boston Post Road

According to information gathered during this Phase I ESA, as well as information provided in previous reports prepared by others, numerous RECs associated with previous property uses were identified.

Concrete Maintenance Pit

During Langan's interior inspection of the building at 488 Boston Post Road, an area approximately 4-feet by 11-feet covered with wood planks was observed within the commercial garage. According to UNH personnel, a floor pit exists beneath the planks, which was utilized for vehicle maintenance. Langan was not provided access to the floor pit to conduct an inspection, so it is unknown if any releases to the subsurface occurred as

a result of activities conducted within the pit. According to a December 2000 Phase I ESA performed by Gigliotti Environmental Services (GES), the former site owner identified the maintenance pit as a solid concrete bottom structure. GES was not provided access to the floor pit to confirm. Due to the limited information regarding this structure, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Interior Trench Drains

Previous site inspections conducted by others identified two trench drains located in the main garage, which reportedly outlet along the eastern building wall. According to the former site owner, one of the trench drains was reportedly covered in concrete upon expansion of the office space, and the second trench drain was located along the eastern interior building wall. The drains were not identified during GZA's 2011 site inspection or Langan's Phase I site inspection, due to the presence of stacked maintenance materials along the building wall. These drains were reportedly installed with the sole purpose of collecting ponded water which accumulated from truck storage (i.e. snow melt, rain water, etc.), and were not utilized for any additional discharge purposes. Soil investigations performed by GZA did not include the advancement of soil borings along the eastern property line, and it is the opinion of the Environmental Professional that this represents a REC.

Heating Oil Underground Storage Tank

Previous site investigations identified an underground storage tank (UST) in the northeast corner of the site, which reportedly contained fuel oil used for heating the building. The tank was reportedly installed when the building was constructed in 1963 and emptied in 1981 when the site was connected to natural gas. Evidence of a UST was not identified by Langan during the Phase I site inspection. Information presented in previous reports indicated that the UST may potentially range in size from 275- to 1,000-gallons, and be as large as 4-feet in diameter; the exact size of the UST is still unknown. According to the former site owner, as identified in the GZA Phase I ESA, the UST was reportedly emptied with a vacuum truck and sealed with an expandable material in September/October 2011.

During Langan's research at the Connecticut Department of Energy and Environmental Protection (CTDEEP), a spill report was located for the Subject Property at 76 Isadore Street/488 Boston Post Road. According to the 26 September 2011 report, petroleum contamination was identified in a dry stream bed. According to the GZA November 2011 Phase I ESA, this spill originated from the UST on the site. Conversations with the Fire Marshall indicated that the fill port on the UST had been sheared off, and rainwater and

surface runoff had infiltrated the UST. Soil and groundwater samples were collected in the vicinity of the UST by GZA to investigate potential impacts associated with the release. Low concentrations of petroleum-related compounds were identified in the soil samples collected below applicable CTDEEP Remediation Standard Regulation (RSR) clean-up criteria. No evidence of a release was identified in the groundwater sample collected south of the UST; however, data gaps exist in the previous sampling plan. As a release from this UST was previously identified and requires additional investigation, it is the opinion of the Environmental Professional that this represents a REC.

Suspect Septic Tank and Leaching Field

GZA identified a septic tank in the northwest corner of the site, and this location was confirmed by Langan during our Phase I site inspection. According to information maintained at the City of New Haven Tax Assessor's office, the site is serviced by public utilities; however, an interview conducted with the former owner by GZA indicated that waste from the bathroom was directed to the on-site septic system. The location of associated leaching field is unknown, and no information regarding the septic system was available for review at the City of New Haven municipal offices. Soil and groundwater samples collected in the areas surrounding the septic tank did not identify any releases to the subsurface; however, data gaps exist in the previous sampling plan. Due to the unknown nature of the septic tank and leaching field, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

REC#2 – Former Site Use/Activities at 496 Boston Post Road

According to information gathered during this Phase I ESA, as well as information provided in previous reports prepared by others, numerous RECs associated with previous property uses were identified.

Heating Oil UST

A tank fill port was observed extending from within a concrete block enclosure in the southeastern corner of the building. According to previous reports by others, a fuel oil UST of unknown size and age is buried in this location. The City of West Haven Assessor's card indicates that this building is heated by fuel oil; however, no UST Registration form was maintained in the CTDEEP files for this property. During GZA's December 2011 subsurface investigation, two soil borings were advanced in the area surrounding the UST to a maximum depth of 1 foot below grade (refusal reported to be shallow bedrock). Soil analytical results identified petroleum-related compounds at concentrations below applicable RSR criteria; however, the samples were collected at the ground surface, and not immediately below the anticipated depth of the UST. Due to the unknown condition of

the UST, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Suspect Septic Tank and Leaching Field

Previously conducted site investigations by others identified a potential on-site septic system. However, no information was provided by the former site owner regarding the location, age, and size of the septic tank or the location of the associated leaching field. During Langan's document review at the City of West Haven, no information was provided regarding the presence of the on-site septic system. Due to the unknown nature of the septic tank and leaching field, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Former Site Uses

According to previous reports, an auto electric repair facility reportedly operated on the site from the early 1960s through early 2011. During Langan's 2013 Phase I site inspection, interior operations consisting of a machining room, parts storage area, and office space were noted. Oil staining was observed on the floor in the machining area surrounding various pieces of equipment, and some corrosion was noted around one of the machines. A sink was observed in the parts storage area, and according to the previous site owner, reportedly discharges to the on-site septic system. Various chemical and petroleum product storage was identified in the GZA Phase I ESA, as well as on the chemical inventory provided by UNH during completion of the Owner/Operator questionnaires. No additional information was provided regarding the chemical storage areas. Due to the potential for impacts to the subsurface as a result of historic site operations, it is the opinion of the Environmental Professional that this represents a REC.

REC#3 – Aboveground Storage Tank at 506 Boston Post Road

During Langan's Phase I site inspection of 506 Boston Post Road an approximately 275-gallon heating oil aboveground storage tank (AST) was observed along the southern exterior of the residential structure. The AST was observed to be empty, in generally poor condition, and positioned directly on soil. The exact age and former contents of the AST are unknown. According to the City of West Haven Tax Assessor, this property is heated with coal and/or wood. Due to the lack of information on the AST, its poor condition, and exterior location, it is the opinion of the Environmental Professional that this represents a REC.

REC#4 – Abandoned ASTs, drums and trash at 516 Boston Post Road

During the Phase I site inspection of 516 Boston Post Road, Langan observed two abandoned ASTs, several 55-gallon drums, and miscellaneous trash within a depressed area located at the northwestern portion of 516 Boston Post Road. A partial building foundation was also observed within this area and appeared to be filled with miscellaneous construction materials. The base of the depressed area contained standing water that appeared to be approximately two feet deep. The ASTs, several drums and various pieces of trash were submerged or partially submerged in the standing water. The ASTs and drums were observed to be empty and were in poor condition with heavy rust and corrosion. The ASTs appeared to have volume capacities of 275-gallons each, and were very similar to the heating oil ASTs observed at the remaining residential properties that are part of the Subject Property. Due to the presence of the abandoned ASTs and drums, and the lack of information pertaining to their age and contents, it is the opinion of the Environmental Professional that this represents a REC.

REC#5 – Surrounding Properties

Some surrounding properties were identified that may have the potential to impact the soil and groundwater quality beneath the Subject Property, including Tire Country and Forest Theater. Tire Country was formerly located adjacent to the Subject Property to the east, in the current location of a parking lot designated for use by UNH faculty and staff. According to reports reviewed at the CTDEEP, total petroleum hydrocarbons (TPH) were detected in six of eight soil samples collected across the site during investigation activities conducted by TAQ, Inc. in December 1998. The highest concentration of TPH was detected at the eastern property line, at concentrations exceeding CTDEEP clean-up criteria. Dissolved phase petroleum impacts were also identified in the groundwater beneath the site. Although no additional soil or groundwater data was available beyond 1998, there is a chance that releases from the former USTs to the subsurface may have migrated onto the Subject Property, and it is the opinion of the Environmental Professional that these properties represent a REC.

REC#6 – Historic Fill Material

According to the 2012 Phase I Environmental Site Investigations (ESI) conducted by GZA, a layer of fill material was encountered at 488 and 496 Boston Post Road. The fill material was encountered during an investigation of shallow soils ranging to a depth of three feet below grade, and consisted of reddish-brown to brown fine to coarse sand, with silt and fine to coarse gravel, and traces of asphalt and/or red brick. Soil samples collected by GZA were analyzed for ETPH and detected concentrations below RSR criteria. During Langan's January 2012 Geotechnical Investigation miscellaneous fill material of similar consistency

observed by GZA was encountered at the Subject Property at depths ranging up to eight feet below grade. It is the opinion of the Environmental Professional that the potential presence of impacted fill material at the Subject Property constitutes a REC.

Historic Recognized Environmental Conditions

It is the opinion of the environmental professional that the following represent historic recognized environmental conditions:

HREC#1 – Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street

According to previous reports reviewed by Langan, former site uses at the 4 and 14 Daytona Street parcel consisted of a construction company, and sheet metal and cement pipe manufacturer. In association with the site activities, a 275-gallon fuel oil aboveground storage tank (AST), 275-gallon waste oil AST, and fuel dispensing truck with a gasoline pump were located at the site. A Phase I ESA performed by Environmental Risk Limited (ERL) in July 2005 identified staining on the ground surface surrounding the waste oil AST and fuel truck. During site investigations performed in 2005 and 2006 by others, elevated concentrations of extractable total petroleum hydrocarbons (ETPH) were identified in shallow soils (maximum 3 feet below grade) adjacent to the waste oil AST and fuel truck. In conjunction with the site owner vacating the property, approximately 35-40 tons of impacted soils were excavated and disposed of off-site from the two areas of concern identified above. As impacts from these areas have been removed, and post-excavation samples did not reveal the presence of any remaining impacts in the ground, it is the opinion of the Environmental Professional that the site use at 4 and 14 Daytona Street are considered an HREC.

Business Environmental Risks

It is the opinion of the environmental professional that the following represent business environmental risks:

BER#1 – Residential Heating Oil Tanks

During Langan's site inspection of the residential properties on the Subject Property, ASTs were observed at 6 of the 7 of the residential properties. A fill port was noticed at 34 Rockview Street; however, access was not provided to confirm the presence of an AST. During future site development the ASTs should be removed, handled and disposed of in accordance with the applicable Federal, State and local regulations.

BER#2 – Property Transfer Program

488 Boston Post Road

Information provided to Langan by the University of New Haven included Hazardous Waste Manifests for the disposal of waste from the 488 Boston Post Road property on 23 February 2012. Wastes listed on the manifest include 400 pounds of sulfuric acid, 300 pounds of hydrochloric acid, and 700 pounds of chloroform. As the quantity of wastes generated on the site exceed 100 kilograms for any one month, the 488 Boston Post Road property likely meets the definition of an “Establishment” in accordance with the CTDEEP Property Transfer Act.

496 Boston Post Road

According to a review of historic information, the property at 496 Boston Post Road was reportedly occupied by an auto electric repair facility from the early 1960s through sometime in 2011. No additional information about the type of auto repair or maintenance operations was available for review. It should be noted that if the former property use at 496 Boston Post Road included any form of auto body work, or if hazardous wastes were generated on the site exceeding 100 kilograms for any one month, the 496 Boston Post Road property may meet the definition of an “Establishment” in accordance with the CTDEEP Property Transfer Act.

Obligations under the Property Transfer Act can include CTDEEP form filings, site investigation, potential remediation activities, and compliance monitoring until the applicable Connecticut Remediation Standard Regulations (RSRs) are achieved. An Environmental Land Use attorney should be retained to verify the status of Subject Property with respect to the Property Transfer Act.

1.0 INTRODUCTION

1.1 Purpose

Langan Engineering & Environmental Services, Inc. (Langan) has completed a Phase I Environmental Site Assessment (ESA) of the ±4.8-acre Subject Property located at 488, 496, 506 and 516 Boston Post Road; 4, 9, 14, 22, and 23 Daytona Street; 14, 20-22, 24, 34, 38 & 46 Rockview Street; and 3, 6, 7, 13 & 20 Waban Street in West Haven, New Haven County, Connecticut (See Figure 1 and 2). This Phase I ESA was completed to update our 21 May 2012 Phase I ESA Report. The Subject Property is improved in accordance with the table below:

Address	Map/Block	Property Improvements
488 Boston Post Road ⁽¹⁾	59/212	One-story commercial building with associated paved parking and landscaped area
496 Boston Post Road ⁽¹⁾	59/213	One-story commercial building with associated paved parking and landscaped area
506 Boston Post Road ⁽¹⁾	59/214	Multi-story residence with separate one-story garage, one-story shed, landscaped area, and gravel driveway
516 Boston Post Road ⁽¹⁾	59/215	Undeveloped lot with partially constructed building (foundation only)
4 Daytona Street	59/220	Paved parking lot with perimeter fencing, landscaping and drainage system
9 Daytona Street	59/218	Partially cleared lot used for material storage
14 Daytona Street	59/221	Paved parking lot with perimeter fencing, landscaping and drainage system
22 Daytona Street	59/222	Undeveloped lot
23 Daytona Street	59/217	Undeveloped lot
14 Rockview Street	59/216	Multi-story residence with landscaped area, and gravel driveway
20-22 Rockview Street	53/67	Multi-story residence with landscaped area and gravel driveway
24 Rockview Street	59/232	Multi-story residence with, landscaped area, and asphalt paved driveway

34 Rockview Street	59/223	Multi-story residence with landscaped area, and asphalt paved driveway
38 Rockview Street	59/224	Multi-story residence with landscaped area, and asphalt paved driveway
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3 Waban Street	59/229	Paved parking lot with perimeter fencing, landscaping and drainage system
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13 Waban Street	59/227	Paved parking lot with perimeter fencing, landscaping and drainage system
20 Waban Street	59/231	Undeveloped lot with partially constructed building (foundation only)

1) Portions of Boston Post Road were formerly known as Orange Avenue

The Subject Property also consists of two “paper” streets owned by the City of West Haven: Daytona Street and Waban Street. Daytona Street is an unpaved access road connecting Rockview Street with the adjacent University of New Haven athletic fields. Access to Daytona Street is from the University of New Haven on the east and Rockview Street on the west. The eastern portion of Daytona Street serves as a storage area for athletic equipment and landscaping equipment. The western portion of Waban Street is an open, grassy area. The eastern portion of Waban Street is overgrown with bushes, large trees, wetlands and wetland plantings. Access to Waban is from the University of New Haven on the east and Rockview Street on the west. For the purposes of this Phase I ESA, all twenty lots, Waban Street, and Daytona Street are considered to be the “Subject Property” as shown on the Existing Conditions Plan, Figure 2.

This Phase I ESA was conducted in accordance with the American Society of Testing and Materials (ASTM) 1527-05, to identify Recognized Environmental Conditions (RECs) and/or areas of potential environmental concern resulting from past or present activities on the Subject Property and to determine if surrounding properties within the specified search radii have the potential to impact the environmental integrity of the Subject Property.

1.2 Detailed Scope of Services

The assessment consisted of a reconnaissance of accessible areas of the Subject Property, a review of State and Federal environmental databases as they pertain to the Subject Property and surrounding properties, a review of historical aerial photographs, topographic maps, Sanborn maps, and city directories for the Subject Property and surrounding properties, and a review of local and county records.

1.3 Significant Assumptions

Any deviations from ASTM E1527-05 Standard Practice are provided in Section 10.0 of this report.

1.4 Limitations and Exceptions

This Phase I ESA report was prepared for Svigals for the properties identified in Section 1.1, and is intended to be used in its entirety for due diligence purposes. Excerpts taken from this report are not necessarily representative of the assessment findings. Langan cannot assume responsibility for use of this report for any property other than the Subject Property addressed herein, or by any third party without a written authorization from Langan.

The Subject Property consists of 20 separate tax lots and two paper streets, as identified in Section 1.1 above. During the completion of this ESA, Langan was only provided access to those lots currently owned and operated by the University of New Haven, and were unable to access the following properties:

- 34 Rockview Street

Observations related to the 34 Rockview Street were made from accessible areas of the Subject Property and public rights-of-way.

Langan's scope of services was limited to that agreed to with Svigals and no other services beyond those explicitly stated are implied. No exploratory borings, sampling of soil, soil vapor, or groundwater, or laboratory analysis were performed by Langan as part of the scope of services.

This Phase I ESA was not intended to be a definitive investigation of possible environmental impacts at the Subject Property. The purpose of this investigation

was limited to determining if there is reason to suspect the possibility of RECs at the Subject Property. It should be understood that even the most comprehensive Phase I ESA may fail to detect environmental liabilities at a particular site. Therefore, Langan cannot "insure" or "certify" that the Subject Property is free of environmental impacts. No expressed or implied representation or warranty is included or intended in this report, except that our services were performed, within the limits prescribed by our client, with the customary thoroughness and competence of our profession. The user is cautioned that federal, state, and local laws may impose environmental obligations that are beyond the scope of ASTM Practice E 1527-05.

The conclusions, opinions, and recommendations provided in this report are based solely on the following activities:

- Visual observations of accessible portions of the Subject Property and the immediate vicinity at the time of Langan's site visit;
- Review of relevant available historical information; and,
- Correspondence and/or discussion with personnel knowledgeable about the Subject Property.

The conclusions, opinions and recommendations are intended exclusively for the purpose stated herein, at the specified Subject Property, as it existed at the time of our site visit.

The User is responsible for the review and identification of environmental liens, activity, and use limitations, and for ascertaining reasons for significantly lower purchase property price in accordance with Section 6 of ASTM E 1527-05. A questionnaire covering these potential concerns was provided to Svigals and as of the date of this Phase I ESA, no responses have been received. Should answers provided in these questionnaires change any conclusions made in this report, an addendum will be issued.

The report findings are based in part on information provided by local, county, and state officials and environmental databases from Federal and State sources. Langan assumes no responsibility for the accuracy and completeness of this information. Visual observations discussed in this report represent conditions at the time of the site inspection and may not be representative of the past or future site conditions.

As per ASTM E1527-05, ESA Report deviations as well as professional opinions regarding these deviations are listed in Section 10.0.

1.5 User Reliance

This ESA has been prepared for the sole use of our Client, "Svigals + Partners, Architecture + Art" (Svigals) for the referenced Project, subject to Langan's General Terms and Conditions.

The Report was prepared in accordance with applicable, customary and generally accepted professional and technical standards ordinarily exercised by other engineering professionals providing similar services under similar circumstances in the location and at the time the subject services were provided and the Report prepared. Langan makes no representations or warranties regarding compliance with any other standard. Reliance upon the Report is subject in all respects to this section, the conditions set forth in this Report and Langan's General Terms and Conditions applicable to the Report, including but not limited to Sections J, L and N pertaining to limitations of liability, claim procedures, and identification of projects. This ESA should not be relied upon by other parties without the express written consent of Langan.

In accordance with Section 4.6 of ASTM E 1527-05 and 40 CFR §312.20, a Phase I ESA may be considered valid for one year starting from the commencement date of the assessment listed on the front cover of this report.

The formal property acquisition/real estate transaction must take place during this period. However, the following components must be conducted or updated within 180 days (six months) prior to the date of a property acquisition/real estate transaction:

- Interviews with past and present owners, operators and occupants;
- Searches for recorded environmental cleanup liens;
- Review of governmental records;
- Site Reconnaissance of the property and adjoining properties; and,
- The declaration by the Environmental Professional.

2.0 SUBJECT PROPERTY DESCRIPTION

2.1 Location and Legal Description

The Subject Property consists of 20 parcels of land designated as follows by the West Haven Tax Assessor's office:

Address	Map/ Block	Acres	Owner	Current Property Use
488 Boston Post Road ⁽¹⁾	59/212	0.18	University of New Haven, Inc.	Vacant Commercial Warehouse
496 Boston Post Road ⁽¹⁾	59/213	0.23	University of New Haven, Inc.	Vacant Commercial Warehouse
506 Boston Post Road ⁽¹⁾	59/214	0.23	Radio Communications Corp.	Single-family Residence
516 Boston Post Road ⁽¹⁾	59/215	0.15	Radio Communications Corp.	Vacant Land
4 Daytona Street	59/220	0.21	University of New Haven, Inc.	University Parking Lot
9 Daytona Street	59/218	0.27	University of New Haven, Inc.	Partially Developed Lot
14 Daytona Street	59/221	0.22	University of New Haven, Inc.	University Parking Lot
22 Daytona Street	59/222	0.15	Wayne Paulson	Vacant Land
23 Daytona Street	59/217	0.28	Radio Communications Corp.	Vacant Land
14 Rockview Street	59/216	0.24	Trustee of Donald E. Jalbert	Single-family Residence
20-22 Rockview Street	53/67	0.11	University of New Haven, Inc.	Two-family Residence
24 Rockview Street	59/232	0.12	Angelina Cordone Criscuolo	Single-family Residence
34 Rockview Street	59/223	0.14	Mahoua Quattara	Two-family Residence

38 Rockview Street	59/224	0.25	University of New Haven, Inc.	Single-family Residence
46 Rockview Street	59/225	0.22	University of New Haven, Inc.	Single-family Residence
3 Waban Street	59/229	0.11	University of New Haven, Inc.	University Parking Lot
6 Waban Street	59/230	0.26	University of New Haven, Inc.	University Parking Lot
7 Waban Street	59/228	0.14	University of New Haven, Inc.	University Parking Lot
13 Waban Street	59/227	0.14	University of New Haven, Inc.	University Parking Lot
20 Waban Street	59/231	0.13	University of New Haven, Inc.	Partially Developed Lot

1. Portions of Boston Post Road were formerly known as Orange Avenue.

2.2 Subject Property and Vicinity General Characteristics

The Subject Property is currently overlaid by three zoning districts as defined by the City of West Haven. The northern portion of the Subject Property from Boston Post Road to the centerline of Daytona Street is zoned RB (Regional Business). For the most part, the southern portion of the Subject Property is zoned R-3 (Multi-family Residential), with the exception of lots 59/220, 59/228, 59/229, and the eastern portion of 59/221, which are zoned RCPD (Residential-Commercial Design District). The Subject Property and adjoining properties generally consist of commercial and residential properties.

2.3 Current Use of the Property

The Subject Property currently consists of 20 separate tax parcels and two “paper” streets owned by 6 different property owners. Property is occupied by eight private residences, a parking lot associated with the University of New Haven, vacant parcels used for equipment storage, unoccupied commercial properties, and wetlands. See table in Section 2.1 above for more details.

2.4 Description of Structures, Roads, Other Improvements on the Subject Property

The 488 and 496 Boston Post Road parcels are each developed with an unoccupied, single-story commercial building. Both buildings have small paved parking areas to the north along Boston Post Road. The property at 506 Boston Post Road is occupied by a multi-story residential building, a separate single-story garage, a single-story storage shed, and an unpaved driveway. The properties at 516 Boston Post Road, 22 Daytona Street and 23 Daytona Street are currently undeveloped. A paved parking lot for UNH students with perimeter fencing, landscaping and drainage improvements currently exists at the 4 Daytona Street, 14 Daytona Street, 3 Waban Street, 7 Waban Street and 13 Waban Street properties. Miscellaneous construction debris is currently present on the partially cleared property at 9 Daytona Street. Two storage containers associated with a private landscaping company under contract with the University of New Haven are also located at 9 Daytona Street. Multi-story residences with associated paved or gravel driveways are located on the properties at 14, 20-22, 24, 34, 38 and 46 Rockview Street. An area of wetlands which receives runoff from the adjacent UNH parking lot to the north is located on the property at 6 Waban Street. To the west of the wetlands, located at 20 Waban Street, is a partially cleared lot with an old, partially-constructed, slab-on-grade building foundation.

2.5 Current Uses of the Adjoining Properties

The Subject Property is bound by Boston Post Road (Orange Avenue) followed by residential and commercial properties to the north, residential properties to the south, Rockview Street followed by residential and commercial properties to the west, and the University of New Haven to the east.

2.6 Physical Setting Sources

2.6.1 Flood Plain Information

According to the Flood Insurance Rate Map, the Subject Property is located in Zone X which is designated as an area of minimal flood hazard, determined to be outside the 500-year flood zone.

2.6.2 Geology

According to the *Surficial Materials Map of Connecticut* (United States Geological Survey/Department of Environmental Protection, Connecticut Geological and Natural History Survey, 1992), soils beneath the Subject Property consist of thin till.

According to the *Bedrock Geologic Map of Connecticut* (U.S. Geological Survey, 1985), the Subject Property is located within the Proto – North American, Iapetus, and Avalonian Terranes. Specifically the surface of the Subject Property is underlain by Allingtown Metavolcanics; a green, fine-grained massive greenstone.

Soils encountered during Langan's 2012 and 2013 Geotechnical Investigations generally consisted of a surficial covering of up to two inches of asphalt pavement or up to 8 inches of topsoil underlain by up to approximately 8 feet of miscellaneous fill material, a layer of silt, sand (at some locations,) and/or glacial till. Up to 5 feet of weathered rock was encountered underlying either the fill layer, glacial till or the sand layer at most locations. Greenstone bedrock was encountered at depths ranging from 1 to 24 feet below grade.

2.6.3 Hydrogeology

According to the *Water Quality Classifications for West Haven, Connecticut* (CTDEEP January 2011), the groundwater within the Subject Property is classified as GB. Based on the Connecticut Water Quality Standards and Criteria, Class GB groundwater is located within highly urbanized areas or areas of intense industrial activity and may not be suitable for human consumption without treatment due to waste discharges, spills or leaks of chemicals or land use impacts. Groundwater was encountered about 3 to 8 feet below grade at the boring locations advanced during Langan's geotechnical investigation.

Based on topography and the vicinity of a nearby watercourse, groundwater is expected to flow to the west-northwest across the Subject Property towards Cove River. Cove River is designated by the CTDEEP as Class A surface water body; defined as water designated for existing or proposed

drinking supply use, fish and wildlife habitat, recreational use, agricultural and industrial supply, and other legitimate uses including navigation.

3.0 USER PROVIDED INFORMATION

User and Owner/Operator questionnaires were provided to Svigals as part of this Phase I ESA. Filled out questionnaires have not been received as of the date of this Phase I ESA. Should answers provided in these questionnaires change any conclusions made in this report, an addendum will be issued. Questionnaires associated with Langan's May 2012 Phase I ESA were filled out by UNH and information provided is discussed in the sections below.

3.1 Title Records

A title search was not provided by the User for this ESA. Should a title search be provided at a later date, relevant information will be included in an addendum to this report.

3.2 Environmental Liens / Use Limitations

Reasonably ascertainable recorded land title records and lien records that are filed under federal, tribal, state, or local law should be reviewed to identify environmental liens or activity and use limitations, if any, that are currently recorded against the property. Any environmental liens or activity and use limitations are required to be reported to the Environmental Professional conducting the ESA per ASTM E1527-05.

No environmental liens or use limitations (engineering or institutional controls) were identified for the Subject Property by the User.

3.3 Specialized Knowledge

Specialized knowledge is defined by ASTM E 1527-05 as *"any specialized knowledge or experience that is material to recognized environmental conditions in connection with the property."* For example, a User is involved in the same line of business as current or former occupants of the property or adjoining property and has specialized knowledge of the chemicals and processes used in this line of business.

The User provided Langan with previously completed environmental investigations for the properties at 4 and 14 Daytona Street, 488 Boston Post Road and 9 Daytona Street, and 496 Boston Post Road Street, which are discussed in detail in Section 3.8.

3.4 Commonly Known Information

If the user is aware of any commonly known or reasonably ascertainable information within the local community about the property that is material to recognized environmental conditions in connection with the property, it is the User's responsibility to communicate such information. This information may include past uses of the property, specific chemicals that were used on site, spills or releases, or environmental cleanups that have taken place.

The User provided Langan with previously completed environmental investigations for the properties at 4 and 14 Daytona Street, 488 Boston Post Road and 9 Daytona Street, and 496 Boston Post Road, which are discussed in detail in Section 3.8.

3.5 Valuation Reduction for Environmental Issues

In a transaction involving the purchase of a parcel of commercial real estate, the User shall consider the relationship of the purchase price of the property to the fair market value of the property if the property was not affected by hazardous substances or petroleum products. The User should try to identify an explanation for a lower price which does not reasonably reflect fair market value if the property were not contaminated.

No information related to a valuation reduction for environmental issues was provided by the User as part of this ESA.

3.6 Owner, Property Manager and Occupant Information

Eight of the parcels within the Subject Property are owned by the University of New Haven. The remaining eleven parcels are under separate ownership, as shown in the table below:

Address	Owner
488 Boston Post Road ⁽¹⁾	University of New Haven, Inc.

496 Boston Post Road ⁽¹⁾	University of New Haven, Inc.
506 Boston Post Road ⁽¹⁾	Radio Communications Corp.
516 Boston Post Road ⁽¹⁾	Radio Communications Corp.
4 Daytona Street	University of New Haven, Inc.
9 Daytona Street	University of New Haven, Inc.
14 Daytona Street	University of New Haven, Inc.
22 Daytona Street	Wayne Paulson
23 Daytona Street	Radio Communications Corp.
14 Rockview Street	Trustee of Donald E. Jalbert
20-22 Rockview Street	University of New Haven, Inc.
24 Rockview Street	Angelina Cordone Criscuolo
34 Rockview Street	Mahoua Quattara
38 Rockview Street	University of New Haven, Inc.
46 Rockview Street	University of New Haven, Inc.
3 Waban Street	University of New Haven, Inc.
6 Waban Street	University of New Haven, Inc.
7 Waban Street	University of New Haven, Inc.
13 Waban Street	University of New Haven, Inc.
20 Waban Street	University of New Haven, Inc.

1. Portions of Boston Post Road were formerly known as Orange Avenue.

3.7 Reason for Performing Phase I

Svigals contracted Langan to complete a Phase I ESA for site planning and due diligence purposes.

3.8 Previous Reports

Svigals provided Langan with the following previous reports for the properties at 488 Boston Post Road, 9 Daytona Street, 496 Boston Post Road, and 4 and 14 Daytona Street:

- "Phase I Environmental Site Assessment, 488 Orange Avenue," Gigliotti Environmental Services (GES), dated December 2000

- "Phase I Environmental Site Assessment, 4 & 14 Daytona Street," Environmental Risk Limited (ERL), dated July 2005
- "Subsurface Investigation, 4 & 14 Daytona Street," ERL, dated September 21, 2005
- "Environmental Update Summary, 4 & 14 Daytona Street," GZA GeoEnvironmental, Inc. (GZA), dated July 26, 2006
- "Excavation Summary Report, 4 & 14 Daytona Street," GZA, dated July 26, 2006
- "Phase I Environmental Site Assessment, 496 Boston Post Road," GZA, dated October 2011
- "Phase I Environmental Site Assessment, 488 Boston Post Road and 9 Daytona Street," GZA, dated November 2011
- "Phase II Environmental Site Assessment, 488-496 Boston Post Road and 9 Daytona Street," GZA, dated January 11, 2012

Previous reports were not provided for any other parcels within the Subject Property. Previous site uses for the parcels identified above have consisted of mainly construction companies from the early 1960s through 2011. A sheet metal and cement sewer pipe manufacturer reportedly operated at 4 and 14 Daytona Street from 1960 through 1985, prior to the site use as a construction company. The parcel at 496 Boston Post Road operated as an automobile electric repair shop from 1963 until approximately 2011. It is unknown when the business was vacated. The business at 4 and 14 Daytona Street was vacated in 2005, and purchased by the University of New Haven; these parcels currently make up the northern portion of a student parking lot. The operations at 488-496 Boston Post Road and 9 Daytona Street have ceased; however, the vacant buildings still remain.

Environmental investigations were conducted in July 2006 and December 2011 by GZA at the above Subject Property parcels. Investigations focused on presumed and identified subsurface contamination associated with three areas of concern: aboveground storage tanks (ASTs) and fuel dispensers at 4 and 14 Daytona Street, underground storage tank (USTs) at 488 and 496 Boston Post Road, and an existing septic tank at 488 Boston Post Road. A brief summary of the investigations associated with the identified areas of concern is provided below:

4 and 14 Daytona Street

According to the Phase I ESA prepared by ERL, two ASTs were present on this parcel during the construction company operations. The site building was heated

by a 275-gallon fuel oil UST located along the eastern exterior building wall. An additional 275-gallon waste oil AST was located along the southern property line. During ERL's Phase I site inspection, petroleum staining was noted on the ground surface below the waste oil AST. The Phase I ESA did not indicate the presence or absence of staining surrounding the fuel oil AST. A fuel truck was also identified in the southeastern portion of the site, which was reportedly used to fuel construction vehicles associated with the former site use. Staining was noted on the ground surface surrounding the gasoline pump on the fueling truck.

Subsequent to the Phase I, ERL performed a limited subsurface investigation in August 2005 to identify any potential soil impacts associated with the RECs noted above. Ten soil borings were advanced across the site, including two borings adjacent to the waste oil AST and one boring within the stained area adjacent to the fuel truck. No soil borings were advanced in the vicinity of the fuel oil AST. Soil samples collected from these three borings were analyzed for volatile organic compounds (VOCs), extractable total petroleum hydrocarbons (ETPH), and/or RCRA 8 metals. Low levels of metals were identified in the soil borings at concentrations below CTDEEP Remediation Standard Regulation (RSR) clean-up criteria, and VOCs were not detected above laboratory reporting limits in any soil sample submitted. Elevated concentrations of ETPH exceeding the Residential Direct Exposure Criteria (RDEC) ranging from 700 mg/kg to 2,100 mg/kg were identified in samples collected from these three borings. No groundwater investigation was conducted at this property.

Limited soil remediation activities were conducted at this site by GZA in July 2006. According to the Environmental Update Summary, the former business was no longer operating on the site at the time of the work and the fuel truck was no longer on-site. The previously identified ASTs had already been taken out of service and were awaiting off-site disposal. Approximately 5 tons of impacted materials were excavated to a maximum depth of 2 feet below grade in the vicinity of the former fuel truck. A total of approximately 30-35 tons of impacted material was excavated and disposed of off-site in the vicinity of the former waste oil AST.

Post-excavation soil samples were collected from the sidewalls and bottom of the excavation and analyzed for ETPH, aromatic VOCs, leachable RCRA 8 Metals via SPLP analysis, and/or polychlorinated biphenyls (PCBs). Analytical results revealed that no impacts remained in the ground following site remediation. As no overburden groundwater was encountered to a maximum depth of four feet below

grade during the soil excavation activities, no groundwater investigation was conducted.

488 Boston Post Road/9 Daytona Street

During the December 2000 Phase I ESA performed by GES, a UST was identified in the northeast corner of the site. This tank reportedly contained #2 fuel oil, and was used to heat the site building prior to the property being connected to natural gas in 1981. According to interviews conducted with the previous site owner, the UST has a 550-gallon capacity and was emptied and taken out of use in 1981. Additionally, the report states that the site is currently being serviced by public sewer. Information gathered by GZA from an interview with the site owner during the preparation of the Phase I ESA indicated that the site was reportedly serviced by an on-site septic system. Utility mark outs present during GZA's Phase I site inspection identified the septic tank location in the northwest corner of the site; however, there was no information available as to the location of the associated leaching field. GZA identified the fuel oil UST as a "small, 275- to 550-gallon" tank in the Phase I ESA; however, according to the Phase II, the UST was assumed to be 1,000-gallons and 4-feet in diameter.

In December 2011, GZA installed two soil borings and two monitoring wells in the vicinity of the UST and suspect septic tank. Soil samples in the vicinity of the septic tank were analyzed for VOCs, ETPH, polyaromatic hydrocarbons (PAHs), and RCRA 8 metals. Soil samples collected in the vicinity of the UST were analyzed for ETPH. Low levels of ETPH were detected in the soil at concentrations far below the applicable RSR criteria. Two overburden groundwater monitoring wells were installed south of the septic tank and UST, and samples were analyzed for VOCs. One compound (chloroform) was detected in the groundwater sample collected at the septic tank at a concentration below RSR criteria, and no VOCs were detected above laboratory reporting limits in the groundwater sample collected at the UST.

According to interviews conducted with the site owner during GZA's Phase I site inspection, two trench drains are located within the garage area of the site building. The owner indicated that one of the trench drains was likely filled in with concrete during the expansion of the office space within the site building. The second trench drain was reportedly located along the eastern interior wall of the building; however, GZA did not identify any drains during their site inspection, mainly due to the presence of stacked materials along the interior building walls. Based on information from the GES and GZA Phase I ESAs, these drains reportedly discharge

out of the eastern side of the site building, and were installed solely to collect any water that may accumulate in the garage during vehicle storage (from snow melt, rainwater, etc.). No soil borings were advanced along the eastern property line to investigate the potential discharge location from the reported trench drains.

One sub-slab soil vapor sample was collected within the garage area to evaluate the potential presence of VOCs beneath the building, as shallow bedrock and no overburden groundwater was encountered beneath the structure. The soil vapor sample was collected into a 3.2 L Summa Canister and analyzed for VOCs by the TO-15 method. Analytical results revealed the presence of low levels of several VOCs, at concentrations below the applicable RSR criteria.

GZA attributed the chloroform in groundwater to a possible source of chlorinated water, and not a release from the UST, and subsequently noted that no additional investigation was warranted at this time.

496 Boston Post Road

An October 2011 Phase I ESA conducted by GZA identified two RECs at the site, including a suspected fuel oil UST of unknown age or capacity and a reported septic tank and associated leaching field of unknown location. Due to the limited information provided by the site owner or City of West Haven records, additional soil investigation was not performed to assess potential impacts associated with the septic system. Two soil borings were completed in the vicinity of the UST with hand augers to a maximum depth of 1 foot below grade, reportedly due to the presence of shallow bedrock in this area. Soil samples were collected from 0-0.5 feet below grade in this location and analyzed for ETPH. Low concentrations of ETPH were detected below the applicable RSR criteria. As no overburden groundwater was encountered on this site, groundwater monitoring wells were not installed.

One sub-slab soil vapor sample was collected within the former machining room to evaluate the potential presence of VOCs beneath the building, as shallow bedrock and no overburden groundwater was encountered beneath the structure. The soil vapor sample was collected into a 3.2 L Summa Canister and analyzed for VOCs by the TO-15 method. Analytical results revealed the presence of low levels of several VOCs, at concentrations below the applicable RSR criteria. GZA subsequently concluded that the low concentrations of compounds detected during the soil and soil vapor investigations were not indicative of a release at this property, and that

no additional investigation was warranted at this time.

4.0 RECORDS REVIEW

4.1 Standard Environmental Records Sources

A database search report that identifies sites listed on state and federal databases within the ASTM-required radii was obtained for the property from Environmental Data Resources, Inc. (EDR) of Milford, Connecticut. A copy of EDR's complete report is provided as Appendix C.

The report included the following databases specified by the ASTM Phase I protocol as well as non-ASTM databases (not listed):

<u>Database</u>	<u>Search Radius</u>
• National Priorities List (NPL)	1 mile
• Comprehensive Environmental Response, Compensation and Liability Information System	0.5 mile
• Resource Conservation and Recovery Information System (RECRIS) Treatment, Storage, and Disposal Facilities (RCRA TSD)	0.5 mile
• Resource Conservation and Recovery Corrective Action Sites (RCRA COR)	1 mile
• RCIS Large and Small Quantity Generators (RCRA GEN)	0.25 mile
• Emergency Response Notification System (ERNS)	Subject Property
• The Facility Index System (FINDS)	Subject Property
• State Hazardous Waste Sites	1 mile
• Regulated State Underground Storage Tank (UST) and Aboveground Storage Tank database (AST)	0.25 mile
• State Leaking Underground Storage Tank (LUST)	0.5 mile

<u>Database</u>	<u>Search Radius</u>
• Brownfield Site Database	0.5 mile
• Engineering Controls Sites	0.5 mile
• Institutional Controls Sites	0.5 mile
• Indian Reservation Database	1 mile

*A description of these databases is provided in the EDR report. A complete listing of sites identified on the above-referenced databases is provided in the EDR Report.

Langan evaluated the following to determine whether additional environmental records with respect to these facilities, including the orphan sites, should be reviewed.

- Case status (i.e., whether a No Further Action letter has been issued or a case has been closed);
- Type of database and whether the presence of soil or groundwater contamination is known;
- Distance of a property from the Subject Property; and,
- Whether a property is located hydraulically up-gradient or down-gradient of the Subject Property based on local topography and the anticipated west-northwesterly groundwater flow direction.

Langan reviewed the information provided using the above criteria and the findings are discussed with the following sections.

Subject Property

The Subject Property was not listed in any of the EDR databases. However, during Langan's file review at the Connecticut Department of Energy and Environmental Protection (CTDEEP), a spill report was encountered for a property at 76 Isadore Street/488 Boston Post Road. According to the 26 September 2011 spill report, approximately 5 gallons of fuel oil was discharged to the surface water (presumably the adjacent wetlands south of the UNH parking lot). The West Haven Fire Department was called to address an "orange substance" found in a dry stream bed. According to the conclusions within the report, the source of petroleum contamination was determined to be from a UST failure. The spill is listed as closed. No additional information regarding the location of the UST or the reported

contamination area could be found in the CTDEEP records. Based on information provided in the previous reports discussed above, the leaking UST was identified as the fuel oil UST in the northeast corner of the 488 Boston Post Road Property.

Surrounding Properties

Surrounding properties which may have the potential to impact the environmental integrity of the Subject Property were identified in the EDR radius report in the following databases:

Database	# of Sites within ¼-mile	# of Up-gradient Sites	# of Adjacent Sites
RCRA-SQG	1	0	0
UST	5	2	1
RCRA- NonGen	2	1	0
MANIFEST	6	2	0
US Hist Auto Stat	3	0	0

Database	# of Sites within ½-mile	# of Up-gradient Sites	# of Adjacent Sites
SDADB	3	1	0
LUST	9	0	0
CPCS	7	1	1
BROWNFIELDS	1	0	0
US BROWNFIELDS	1	1	0

Database	# of Sites within 1-mile	# of Up-gradient Sites	# of Adjacent Sites
LWDS	4	2	0

RCRA Small Quantity Generators (RCRA-SQG)

Aamco Transmissions of West Haven (672 Orange Avenue) is located approximately 1,240 feet west-southwest and downgradient of the Subject Property. The site is listed as a small quantity generator for the generation of ignitable wastes, benzene, and tetrachloroethylene. This site is also listed in the MANIFEST database under three separate names at the same address. Based on the downgradient location in

relation to the Subject Property, this facility has a low potential to impact the environmental integrity of the Subject Property.

Underground Storage Tanks (USTs)

Five UST properties are located within a ¼-mile of the Subject Property.

Tire Country – 468 Boston Post Road

Tire Country was formerly located upgradient and adjacent to the Subject Property to the east, in the location of a current parking lot designated for UNH faculty and staff. The site is listed in the database for five former USTs: two 4,000-gallon gasoline tanks, one 3,000-gallon gasoline tank, one 550-gallon fuel oil tank, and one 550-gallon waste oil tank. All five USTs were reportedly last used on 1 September 1993. A Notice of Violation NOVWSUST-98-051 was issued on 9 September 1998 citing four infractions, including the illegal discharge of oil or petroleum to State waters, failure to immediately cease discharging and the failure to assess the subsurface conditions following the closure of the previously installed USTs. A Phase II Environmental Site Investigation (ESI) was performed on the site in December 1998 by TAQ, Inc. The Phase II ESI included the advancement of ten soil borings and the installation of five, overburden piezometer well points. According to the Phase II, overburden groundwater was not encountered in two of the well points.

Soil samples from each of the soil borings were analyzed for volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH), and/or total lead. Low-levels of aromatic VOCs were detected in all four of the soil samples analyzed for this parameter, at concentrations below applicable CTDEEP RSR clean-up criteria. Elevated concentrations of total lead were detected in the soil samples collected adjacent to the former waste oil and heating oil USTs, at concentrations below the residential and industrial/commercial direct exposure criteria (RDEC and ICDEC). TPH was detected in six of eight soil samples collected, at concentrations ranging from 74 to 2,600 mg/kg. The highest concentration of TPH in soil was encountered at the former location of the waste oil heating tank along the eastern property line, and exceeded both the RDEC (500 mg/kg) and ICDEC (2,500 mg/kg). TPH was detected in the soil sample collected adjacent to the former heating oil tank (1,200 mg/kg) at a concentration exceeding the RDEC.

Groundwater samples were collected from the three piezometer wells where overburden groundwater was encountered and analyzed for VOCs, TPH, and/or dissolved lead. VOCs were not detected in two of the groundwater samples

submitted, and were detected at concentrations below applicable RSR criteria in the third groundwater sample. Lead was only analyzed for in one of the three groundwater samples, and was not detected. TPH was detected in two of the three groundwater samples at concentrations of 0.7 mg/L and 1 mg/L; however, as the site is within a GB groundwater area, there are no clean-up criteria for TPH in groundwater. Based on the information provided, this facility has a moderate potential to impact the environmental integrity of the Subject Property.

R&L Auto Service LLC – 540 Boston Post Road

R&L Auto Service LLC is located approximately 100 feet cross-gradient and to the west of the Subject Property. This site is also listed in the MANIFEST database under the name R&L Krall. According to the EDR and files reviewed at the CTDEEP, there are currently four USTs in use on the site. One 3,000-gallon and three 6,000-gallon gasoline USTs were installed in March 2001. The site previously maintained as many as six USTs ranging in size from 275 to 6,000-gallons containing leaded and unleaded gasoline, diesel fuel, heating oil, and waste oil. The previous leaded gasoline, diesel, waste oil, and heating oil USTs were reportedly removed in January 1989; however, no documents regarding the closure of the USTs were on file. Files reviewed at the CTDEEP included an April 2010 Notice of Violation (NOVUST-DJK10-0023) issued following a UST Compliance Inspection by the CTDEEP. The NOV cited failure to maintain documentation regarding tightness testing, leak test results, and inventory of volume measurements. Additionally, the NOV noted that the dispenser sump contained liquid during the inspection. Subsequent correspondence regarding measures taken to address the NOV was not provided.

Langan reviewed two spill reports for the site in the CTDEEP database. A 23 November 2001 spill report listing the site as the 540 Orange Ave. Texaco Station identified a white, powdery substance on the ground. According to the report, the local police and fire department were notified in addition to the CTDEEP, and the status of the spill is listed as closed. A second spill report was filed on 8 September 2005 for a release of 10 gallons of #2 fuel oil, due to a hose failure. The release was contained and the ground surface was treated with Speedi-Dry. The spill is listed as closed. Based on the information provided, this facility has a low potential to impact the environmental integrity of the Subject Property.

Based on the downgradient location of the remaining facilities, there is a low potential for them to impact the environmental integrity of the Subject Property.

RCRA Non-Generators (RCRA-NON GEN)

Two RCRA Non-Generator properties are located within ¼-mile of the Subject Property. Mazon Motors Limited (559 Orange Avenue) is located approximately 65 feet northwest and cross-gradient of the Subject Property. This facility is also listed in the MANIFEST database for the disposal of waste paint-related material liquid. No RCRA violations were listed in the EDR report. Based on the information reviewed, this facility has a low potential to impact the environmental integrity of the Subject Property.

The second site, E&O Manufacturing Company (4 Horton Place), is located approximately 730 feet west of the Subject Property. Based on the downgradient location of this site in relationship to the Subject Property, there is a low potential for this facility to impact the environmental integrity of the Subject Property.

Manifest

Six Manifest properties are located within a ¼-mile of the Subject Property. AAMCO Transmission, R&L Krall, and Mazon Motors Limited are all discussed above. Based on the cross- and downgradient locations of the remaining three properties, these facilities have a low potential to impact the environmental integrity of the Subject Property.

Site Discovery and Assessment Database (SDADB)

Three SDADB properties are listed within a ½-mile of the Subject Property.

University of New Haven – 300 Boston Post Road

The University of New Haven (UNH) is located adjacent and upgradient to the Subject Property to the east. UNH is also listed in the LUST, MANIFEST, and CPCS databases. Four spill reports were reviewed at the CTDEEP. Two of the spills appeared to have occurred in laboratory classrooms in various buildings on campus. A spill report from 1 August 2000 was on file for the release of less than one gallon of diesel fuel to the ground surface as a result of a ruptured fuel line. A 5 September 1996 spill report was filed in conjunction with a LUST for the removal of a UST and associated petroleum-impacted soils identified during UST closure activities (described below). All four spills are listed as closed.

According to files reviewed at the CTDEEP, sixteen heating oil USTs ranging in size from 500 to 10,000-gallons were historically in-use across the campus, and were removed between 1988 and 1996. No documentation was provided for the four USTs removed in June 1988, May 1995, and April 1996. The remaining UST closure

activities, completed in December 1994 and September 1996, were documented in two separate UST closure reports. The April 1995 report prepared by Environmental Science and Engineering, Inc. described the abandonment and removal of five of the remaining twelve USTs on campus. According to the report, approximately 39.2 tons of impacted soils were excavated as part of the tank closure activities. Soil closure samples were collected following soil and tank removal and analyzed for TPH and/or VOCs. If groundwater was encountered during the UST removal, a sample was collected and analyzed for VOCs only. Analytical results from the post-excavation samples did not reveal the presence of any compounds above applicable RSR criteria.

The September 1996 removal of the final seven USTs on campus was documented in a UST closure report prepared by Gigliotti Environmental Services. Approximately 84.4 tons of impacted soil was reportedly disposed of as part of the tank removal activities. Free product was identified surrounding one of the USTs during its removal, and a spill report was filed with the CTDEEP. The product and associated soil impacts were disposed of off-site. Post-excavation soil samples were collected and analyzed for TPH, and one sample was also selected to be analyzed for VOCs. Analytical results did not reveal the presence of any constituents of concern in exceedance of applicable RSR criteria. No groundwater samples were collected as part of the tank closure activities. Based on the information review, this facility has a low potential to impact the environmental integrity of the Subject Property.

Based on the cross- and downgradient locations of the remaining eight facilities, there is a low potential for them to impact the environmental integrity of the Subject Property.

Leaking Underground Storage Tanks (LUSTs)

Nine LUST properties are located within a ½-mile of the Subject Property. The University of New Haven was previously discussed in the sections above. Based on the cross- and downgradient locations of the remaining facilities, they have a low potential to impact the environmental integrity of the Subject Property.

Contaminated or Potentially Contaminated Sites (CPCS)

Seven CPCS properties are located within a ½-mile of the Subject Property. The University of New Haven has been discussed in the sections above. Based on the cross- and downgradient locations of the remaining facilities, they have a low potential to impact the environmental integrity of the Subject Property.

Brownfield Inventory Sites (Brownfields)

One Brownfield property, Nutmeg Gas (668-678 Orange Avenue), is located within a ½-mile upgradient of the Subject Property. Based on the downgradient location in relationship to the Subject Property, this facility has a low potential to impact the environmental integrity of the Subject Property.

USEPA Brownfield Properties (US Brownfields)

One US Brownfield property, Forest Theater (10 Forest Road), is located within ½-mile of the Subject Property. According to the EDR radius report, a Phase II ESI was performed, and soil and groundwater impacts reportedly exist on the property. Files were not maintained for this property at the CTDEEP. Due to the limited information available on this property, and the potential for soil and groundwater impacts to exist, there is a moderate potential for this site to impact the environmental integrity of the Subject Property.

Leachate and Waste Water Discharge Inventory (LWDS)

Four LWDS properties are located within 1-mile of the Subject Property. Due to the nature of these point source releases to the storm sewer or a waterbody, it is not likely they will impact the environmental integrity of the Subject Property.

US Hist Auto Stat

Four US Hist Auto Stat properties are located within a ¼-mile of the Subject Property. The properties located at 540 Boston Post Road and 672 Orange Avenue were discussed above. Based on the cross- and downgradient locations of the remaining two properties, these facilities have a low potential to impact the environmental integrity of the Subject Property.

4.2 Additional Environmental Records Sources

No additional environmental records sources were researched as part of this Phase I ESA.

4.3 Historical Use Information on the Property

Historic topographic maps, aerial photographs, Sanborn Fire Insurance Maps, and a city directory search were obtained from Environmental Data Resources (EDR) of Milford, Connecticut.

4.3.1 Topographic Maps

Historic topographic maps for years from 1892, 1947, 1954, 1967, 1972 and 1984 were obtained from EDR and reviewed as part of this Phase I ESA. The maps are provided as Appendix D.

1892

On the 1892 map the Subject Property appears to be undeveloped. Several small structures are present along Route 1 (Boston Post Road/Orange Avenue) in the surrounding area.

1947

The 1947 map shows the Subject Property developed with three structures along Rockview Street. Waban Street has not been constructed and Daytona Street does not appear to extend onto the Subject Property as of 1947. One larger, school building and three smaller structures have been developed on the adjacent property to the east. Several small structures are shown in the surrounding areas to the north, south and west.

1954

The Subject Property and surrounding conditions shown on the 1954 map appear similar to those shown on the 1947 map, with the exception of slightly more development along Route 1 and the general vicinity.

1967

The 1967 maps shows the Subject Property and surrounding conditions shaded as urban land. The University of New Haven is shown adjacent to Subject Property to the east as New Haven College.

1972

The 1972 map shows the Subject Property shaded as urban land. Surrounding conditions appear similar to those shown on the 1967 map, with the exception of two additional structures developed on the New Haven College property.

1984

The Subject Property and surrounding conditions shown on the 1984 map are similar to those shown on the 1972 map with the exception of two additional structures developed on the New Haven College property.

4.3.2 City Directories

City directory listings for the City of West Haven were obtained from EDR for the years 1964, 1972, 1990, and 2008 as part of this ESA. Information was not available for all parcels within the Subject Property. According to the names listed in the city directories, the Subject Property parcels have been mainly residential in nature since at least 1964. The properties at 14 Daytona Street and 488 and 496 Boston Post Road appear to have been construction-related commercial uses since at least 1972. Information in the city directories provides no indication regarding the use, storage or disposal of hazardous or toxic materials. The City Directory Abstract is provided as Appendix E.

4.3.3 Aerial Photographs

Historical aerial photographs of the Subject Property area dated 1940, 1963, 1966, 1972, 1975, 1980, 1985, 1991, 2005, 2006, and 2008 were obtained from EDR and reviewed as part of this ESA. The 1934 and 1965 aerial photographs were obtained on the Connecticut State Library's website and reviewed online. The EDR aerial photographs are provided as Appendix F.

1934

The 1934 aerial photograph shows the Subject Property developed with two small structures: one on the western property line along Rockview Street, and one in the northeast corner along Boston Post Road. Portions of Daytona Street are shown as developed; however it does not extend onto the Subject Property. Much of the surrounding area is undeveloped or contains small, residential properties.

1940

The quality of the 1940 aerial photograph is poor; however, conditions of the Subject Property and surrounding area appear similar to those shown on the 1934 photograph.

1963

The 1963 aerial photograph shows the Subject Property developed with numerous, small structures along Rockview Street, and Daytona Street has been extended onto the Subject Property. A majority of the northern, southern, and eastern portions of the Subject Property appear to be primarily wooded with some areas of clearing. Additional development is shown in

the surrounding areas, including the development of three buildings associated with the University of New Haven.

1965, 1966

The 1965 and 1966 aerial photographs show conditions of the Subject Property and surrounding area the same as those shown in the 1963 photograph.

1972

The 1972 aerial photograph shows the Subject Property fully developed as it exists currently, with multiple residential and commercial structures along Rockview Street, Boston Post Road, Waban Street, and Daytona Street. Conditions of the surrounding area appear similar to those shown on the 1966 photograph, with the exception of additional development east of the Subject Property associated with the University of New Haven.

1975

The quality of the 1975 aerial photograph is relatively poor; however, the Subject Property and surrounding conditions appear similar to those in the 1972 photograph.

1980

The Subject Property and surrounding conditions shown on the 1980 aerial photograph are similar to those shown on the 1975 aerial, with the exception of additional development east of the Subject Property associated with the University of New Haven.

1985

Due to poor clarity of the 1985 aerial photograph, it is undetermined if there are any differences between the 1980 and 1985 aerial photographs.

1991

The Subject Property and surrounding conditions shown on the 1991 aerial photograph are similar to those shown on the 1980 aerial, with the exception of additional development east of the Subject Property associated with the University of New Haven.

2005, 2006, 2008

The Subject Property and surrounding conditions in the 2005 through 2008 photographs are similar to those in the 1991 photograph.

4.3.4 Sanborn Fire Insurance Maps

A historical Sanborn map of the Subject Property area dated 1973 was obtained from EDR and reviewed as part of this ESA. A copy of the map is provided as Appendix G.

1973

The 1973 Sanborn Map only provided coverage for the northern portion of the Subject Property, bounded by Boston Post Road to the north and Daytona Street to the south, including the following parcels: 488, 496, 506, and 516 Boston Post Road, 9 and 23 Daytona Street, and 14 Rockview Street. The parcel at 14 Rockview Street is shown as developed with a 1.5-story residential dwelling in the southwest corner of the parcel. 506 Boston Post Road is shown as developed with a 2-story dwelling along the eastern edge of the parcel and an associated 1-story building labeled "storage". The structure shown at 496 Boston Post Road was reportedly constructed in 1966, and consisted of a store and an "auto repair" area in the western portion of the building. 488 Boston Post Road is shown as developed with a 1-story structure consisting of office space and labeled as "Contrs A & Stgr".

The properties to the north, east, and west consist of mostly residential dwellings. A filling station is shown adjacent to the Subject Property to the east. A building labeled "auto sales & repair" is shown to the north of the Subject Property, across Boston Post Road. There is a commercial business west of the Subject Property across Rockview Street which consists of a machine shop and upholstering business.

4.4 Historical Use Information on Adjoining Properties

Based on the information provided from the historical resources above, the area surrounding the Subject Property appears to be residential as far back as the early 1900's, and residential and commercial as far back at the 1970's.

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

Langan conducted an inspection of the Subject Property on 12 and 28 March 2013. Photographs taken during the Subject Property inspection are provided as Appendix

H. A Site Plan is provided as Figure 2. The inspection included a walk-through of accessible exterior portions of the Subject Property for the purpose of identifying Recognized Environmental Conditions (RECs). At the time of the inspection, Langan was not granted permission to enter the property at 34 Rockview Street. Exteriors of the remaining properties were inspected from accessible portions of adjacent parcels and public right-of-ways.

A visual inspection of adjoining properties from the Subject Property line, public rights-of-way, or other vantage points including a visual inspection where hazardous substances may be or may have been stored, treated, handled or disposed was also conducted.

5.2 General Site Setting

The Subject Property consists of two single-story commercial buildings, seven single- and multi-story residences with associated landscaped areas and paved driveways of various conditions, a parking lot associated with the University of New Haven with landscaping and drainage improvements, a wetland area, two “paper” streets (Daytona Street and Waban Street), and multiple undeveloped or partially developed parcels.

The following table describes property improvements and any access limitations encountered during the performance of this Phase I ESA.

Address	Map/Block	Property Improvements	Access Limitation During Site Inspection
488 Boston Post Road ⁽¹⁾	59/212	One-story commercial building with associated paved parking and landscaped area	None. Full access to property granted.
496 Boston Post Road ⁽¹⁾	59/213	One-story commercial building with associated paved parking and landscaped area	None. Full access to property granted.
506 Boston Post Road ⁽¹⁾	59/214	Multi-story residence with separate one-story garage, one-story shed, landscaped area, and gravel driveway	None. Full access to property granted.

516 Boston Post Road ⁽¹⁾	59/215	Undeveloped lot with partially constructed building (foundation only)	None. Full access to property granted.
4 Daytona Street	59/220	Paved parking lot with perimeter fencing, landscaping and drainage system	None. Full access to property granted.
9 Daytona Street	59/218	Partially cleared lot used for material storage	None. Full access to property granted.
14 Daytona Street	59/221	Paved parking lot with perimeter fencing, landscaping and drainage system	None. Full access to property granted.
22 Daytona Street	59/222	Undeveloped lot	None. Full access to property granted.
23 Daytona Street	59/217	Undeveloped lot	None. Full access to property granted.
14 Rockview Street	59/216	Multi-story residence with landscaped area, and gravel driveway	None. Full access to property granted.
20-22 Rockview Street	53/67	Multi-story residence with landscaped area and gravel driveway	None. Full access to property granted.
24 Rockview Street	59/232	Multi-story residence with, landscaped area, and asphalt paved driveway	None. Full access to property granted.
34 Rockview Street	59/223	Multi-story residence with landscaped area, and asphalt paved driveway	Langan was not provided access to the property
38 Rockview Street	59/224	Multi-story residence with landscaped area, and asphalt paved driveway	None. Full access to property granted.
46 Rockview Street	59/225	Multi-story residence with single-bay garage, landscaped area, and asphalt paved driveway	None. Full access to property granted.
3 Waban Street	59/229	Paved parking lot with perimeter fencing, landscaping and drainage system	None. Full access to property granted.

6 Waban Street	59/230	Undeveloped lot with wetlands	None. Full access to property granted.
7 Waban Street	59/228	Paved parking lot with perimeter fencing, landscaping and drainage system	None. Full access to property granted.
13 Waban Street	59/227	Paved parking lot with perimeter fencing, landscaping and drainage system	None. Full access to property granted.
20 Waban Street	59/231	Undeveloped lot with partially constructed building (foundation only)	None. Full access to property granted.

1) Portions of Boston Post Road were formerly known as Orange Avenue

5.3 Exterior Observations

488 Boston Post Road/9 Daytona Street

The property at 488 Boston Post Road was formerly occupied by a construction company, and the business was vacated in approximately January 2011. Both commercial buildings have paved parking areas along Boston Post Road that are in fair condition. The commercial building located at 488 Boston Post Road is constructed of brick and concrete blocks with a generally flat to slightly pitched roof and aluminum gutters that drain to overland flow south of the building. An 8-foot high chain link fence and swing gate equipped with barbed wire runs east-west across the front of the parcel from the building's northwest corner to the adjacent commercial building to the west, and prevents access to the southern portion of the parcel. An attached commercial garage is located on the western portion of the building with access from Boston Post Road and the rear of the parcel. All glass windows were observed to be in good condition. City water and natural gas lateral connections from Boston Post Road enter the building on its eastern side, as observed through Call Before You Dig (CBYD) markings and exterior building piping. No fill ports were observed during the time of the site inspection.

Two monitoring wells observed to be in good condition and several asphalt patched and open holes indicative of subsurface investigation activity were observed in the parking area to the north and west of the building. The results of the GZA Phase II from December 2011 are discussed in Section 3.8. A 4-foot by 11-foot spray painted outline was observed in the parking lot in an area where the pavement was

heaving upwards, and based on a review of historic documents is likely the on-site septic tank.

A gravel driveway on the west side of the building extends to the building's rear and onto the partially cleared property located at 9 Daytona Street. This property was used by the former business located at 488 Boston Post Road, and several piles of construction debris (wood, clay/concrete pipe, brick), storage containers (Connex boxes), and two tractors were observed in this area. The tractors and containers are owned and maintained by a private landscaping company under contract with the University of New Haven and contain equipment and materials needed to maintain the landscaping at the University. Langan was not provided access inside the Connex containers. There is a steep drop in grade at the property's southern boundary with Daytona Street, where the elevation drops by approximately 6 feet over rocky terrain.

496 Boston Post Road/23 Daytona Street

The single-story commercial building located at 496 Boston Post Road has vinyl siding, a flat roof, two glass door entrances on its northern side and two doorways in the rear, abutting 23 Daytona Street to the south. All glass windows and doors were observed to be in good condition. A tank fill port was observed extending from within a concrete block enclosure in the southeastern corner of the building. According to the Assessor's cards this building is heated by fuel oil and this fill port is likely associated with the buried heating oil UST discussed in Section 3.8 above. Two 55-gallon steel drums were located against the southern building wall, and were observed to be in poor condition, with areas of the steel corroding around the bottom. The drums were sitting directly on the ground with no barrier to the subsurface. The remaining area of the lot is covered in overgrown brush and miscellaneous refuse was observed throughout. CBYD markings indicate that underground communications cables run along Boston Post Road just north of the Subject Property. The parcel at 23 Daytona Street is an undeveloped lot that steadily slopes down until it flattens out at its southern property boundary with Daytona Street.

506 Boston Post Road

The edges of the property at 506 Boston Post Road are heavily vegetated. The residence was vacant and in disrepair, with wooden boards observed over the windows on the upper stories. Two separate structures that appeared to be a single-story garage and single-story storage shed were observed. Within the storage shed Langan observed ammunition. Langan informed the West Haven

Police Department (WHPD) of the ammunition, which was removed by WHPD immediately thereafter. The property is accessed by an unpaved driveway along Boston Post Road, and the property immediately surrounding the structures contained much miscellaneous refuse and construction materials. The remainder of the property is overgrown with brush. An AST, approximately 275-gallons and presumably used for heating fuel, was observed along the southern exterior of the building. At the time of the site inspection the AST appeared to be empty, in poor condition, and positioned directly on soil. Langan did not observe any staining or signs of a release in the direct vicinity of the AST.

516 Boston Post Road

The property located at 516 Boston Post Road is located at the northwestern corner of the Subject Property. The northwestern corner of this parcel is depressed, and concrete retaining walls are located along Boston Post Road and Rockview Street. A partial building foundation located within the depressed was observed to contain miscellaneous construction materials including, but not limited to, plywood and ladders. Rock outcroppings were observed along steep slopes surrounding the depressed area. Within the bottom of the depressed area Langan observed approximately one to two feet of standing water. Langan did not observe any storm drainage structures discharging into this area. Within the depressed area Langan observed two abandoned ASTs, several 55-gallon drums, and much miscellaneous. The ASTs appeared to be approximately 275-gallons each and similar to the heating oil ASTs observed at the other residential parcels that are part of the Subject Property. The ASTs and drums appeared to be empty, in poor condition, and some were partially submerged in the standing water. Langan did not observe a sheen on the water, or any evidence of a release from the ASTs or drums.

14 Rockview Street

The single-story residence located at 14 Rockview Street was observed to have wood siding, a brick chimney, a pitched roof with skylights, and an unpaved driveway with access from Rockview Street and Daytona Street. A fill port was observed on the south side of the house, penetrating through the concrete foundation wall. Windows observed in the foundation wall indicate the potential presence of basement in this residence.

34 Rockview Street

The two-story residence located at 34 Rockview Street was observed to have brick exterior on the first floor, vinyl siding on the second floor, a pitched roof with a brick chimney, aluminum guttered drainage, a concrete sidewalk leading from Rockview

Street to the front entrance and several satellite dishes attached to the side of the house. A paved driveway in poor condition exists along the building's northern side adjacent to Daytona Street. Three fill ports were observed on the north side of the building, with two on the western corner and one on the eastern corner. A window was observed at ground surface adjacent to the fill ports on the western corner of the house, indicating the potential presence of a basement.

38 Rockview Street

The two-story residence located at 38 Rockview Street was observed to have stucco on wood siding, a pitched roof, and perimeter chain link fencing around the property with swing gates located at two separate asphalt paved driveways accessed from Rockview Street and located on the north and south sides of the house. A natural gas connection was observed on the northern side of the house. A fill port was observed along the northern exterior of the building. Windows were observed along the northern side of the residence along ground surface, indicating the potential presence of a basement. A small wooden shed located to the east of the property was observed to be empty. Langan observed rock outcroppings in the eastern part of this parcel.

46 Rockview Street

The two-story residential building located at 46 Rockview Street was observed to have wood shingle siding, a single bay garage on the front (west) side, an asphalt paved driveway along the southwestern side of the property, a concrete sidewalk leading from the driveway to the front door, and a wood fence along the perimeter of the property. A fill port was observed on the front of the residence, just south of the front door. A grassy yard was observed behind the residence to the east. A concrete pad was observed to the south of the property, and appeared to formerly contain an air conditioning unit.

24 Rockview Street

The property located at 24 Rockview Street was observed to contain a two-story residence with aluminum siding, a pitched roof, fencing along the western and southern property boundaries, a small storage shed in the rear (eastern) part of the property, and an asphalt paved driveway along the building's northern side. A fill port was observed along the northern exterior of the residence. A small subsurface structure was observed along the southern exterior of the building, and appeared to be associated with a former septic system, and was filled with concrete.

20-22 Rockview Street

The property located at 20-22 Rockview Street was observed to contain a two-story, two-family residence with aluminum siding, a pitched roof, and fencing along the northern, eastern and southern property boundaries. Two fill ports were observed along the northern exterior of the building.

22 Daytona Street

The property located at 22 Daytona Street is an undeveloped parcel that was observed to be overgrown with brush.

4 and 14 Daytona Street, 3, 7, and 13 Waban Street

A parking lot designated for use by UNH students encompasses the properties located at 4 Daytona Street, 14 Daytona Street, 3 Waban Street, 7 Waban Street and 13 Waban Street. The parking lot contains perimeter overhead lighting, perimeter chain link fencing, landscaped islands, a landscaped berm on the western edge of the parking lot, maintenance equipment storage at the northern end of the parking lot, and catch basin drainage with an underground stormwater detention system located at the southern end of the parking lot. The landscaped berm prevents any off-site stormwater runoff from the west from entering the parking lot. The maintenance equipment stored on the parking lot included several small size tractors for snow removal and storage containers (Connex boxes) with unknown maintenance equipment inside. Snow melting material covered with a tarp was located on a pallet at the northwestern corner of the parking lot with uncovered material scattered on the pavement. Several manholes were located throughout the southern side of the parking lot where the stormwater detention system is located. The outlet structure for the stormwater detention system was observed just south of the parking lot, discharging stormwater into the adjacent wetlands. A general refuse roll-off dumpster was located at the southwestern corner of the parking lot, and was observed to be uncovered.

6 Waban Street

The property located at 6 Waban Street is a low lying wetland that was observed to have standing water during the time of the site inspection. Stormwater from the adjacent detention system discharges into the northeast corner of this property through a concrete headwall and outlet control structure. The property located at 20 Waban Street is west of the wetlands, and was observed to contain a partial building structure. The structure appears to be an above-grade residential building foundation, as windows and a doorway frame were observed.

Daytona Street

Within the limits of the Subject Property, Daytona Street is a “paper” street with access from Rockview Street, and terminates at a dead-end just west of the UNH athletic fields. The condition of the road’s asphalt pavement is very poor and the surface cover gradually becomes gravel and dirt as it progresses east, with remnants of mulch from landscaping activities remaining on eastern portions of the road. Stormwater drainage consisted of a catch basin located within the center of the road just north of 22 Daytona Street, and discharged east to a manhole located near the eastern terminus of Daytona Street. Stormwater from this manhole was observed to discharge south, paralleling the eastern perimeter of the parking lot, towards the stormwater detention system. Several storage containers (Connex boxes) and miscellaneous construction/maintenance materials (cinder blocks, paint cans, propane tanks).

Waban Street

Waban Street is a grass and brush covered “paper” street that extends from Rockview Street to a general parking area located at UNH. At the time of the site inspection it was observed that approximately 50 feet of Waban Street starting from Rockview Street heading east had grass cover. A motorboat on a trailer was parked on this section at the time of the site inspection. The remainder of Waban Street was comprised of thick overgrown brush and steep slopes, and was not further inspected.

5.4 Interior Observations

At the time of Langan’s site inspection, interior access was not granted for the residential property located at 34 Rockview Avenue. Descriptions for the remaining buildings located on the Subject Property are included below.

488 Boston Post Road

The building located at 488 Boston Post Road is currently a vacant commercial warehouse, which was formerly used by a construction company. The northern portion of the building consisted of multiple business offices which contained desks, chairs, fluorescent lighting, wood paneled walls, and miscellaneous boxes and paperwork from the former business. Flooring in a majority of the office space consisted of carpeting. A closet in the front office contains miscellaneous household cleaning supplies. Two small bathrooms, each containing one toilet and one sink, were located along the western side of the building. 9-inch by 9-inch tile floors were observed in the bathrooms. An attached commercial garage formerly

used as an accessory to the construction company in the rear of the building accounted for the remainder of the building area. During Langan's site inspection, the garage was observed to contain two furnaces and a hot water heater. The furnaces and boilers are reportedly gas-fired, and a natural gas connection was identified on the exterior building wall.

A large assortment of construction-related materials were left throughout the garage, including, but were not limited to: fiberglass insulation, several 5-gallon buckets of roof mastic and damproofing mastic, at least 20 unlabeled plastic drums of varying volume and unknown contents, approximately five 55-gallon drums of concrete chemical release agent, and motor vehicle maintenance equipment. A floor pit for working underneath heavy machinery, approximately 4-feet by 11-feet, was observed in this room but was covered with wood planks during the site inspection, and Langan was not provided with access beneath the garage floor. In addition to access from within the former business, the garage was accessible through a manually operated metal roll-up door facing Boston Post Road. Several minor cracks and minor areas of staining were observed in the concrete floor during the site inspection.

496 Boston Post Road

The building located at 496 Boston Post Road is currently a vacant commercial building that was formerly used as an office and for parts storage and machining operations. The property is accessed by glass doors located at the front (north) side of the building. Offices are located along the northeastern corner of the room, and Langan observed office furniture, computers and printers, miscellaneous paperwork, and electric circuit panel in this area. In the rear of the building are three rooms. The floor is constructed of a concrete slab, with vinyl tile within the offices. The room located on the eastern side of the building is used for parts storage, and wooden crates of mechanical hardware were observed on metal shelving units. A half bath, electrical circuit panels, and a disconnected water service were observed at the southern part of the room. Within the central room in the rear of the building Langan observed additional crates of mechanical hardware, office furniture, a sink, electric circuit panels, and a doorway that provides access to the southern exterior of the property. Minor staining was observed on the concrete in the vicinity of the sink. The room on the western side of the building extends from the front to the rear of the building, and contains miscellaneous mechanical equipment, crates of mechanical hardware, miscellaneous hand tools, and a doorway that provides access to the southern exterior of the property. Minor staining was observed at various areas throughout the concrete floor. The concrete

floor appeared to be in generally good condition and both doorways at the southern end of the building were unable to be opened due to heavy brush growth to the south of the building.

506 Boston Post Road

Interior access to the residential structure located at 506 Boston Post Road is provided by door located on the first floor at the front (north) and rear (south) sides of the building. A hatchway located on the western exterior of the building provides direct access to the basement. Within the basement Langan observed a furnace, utility piping, miscellaneous trash, and a stairwell to the first floor. Due to the amount of trash and lack of light in the basement, Langan was unable to make more detailed observations. On the first floor are a kitchen, stairwell to the second floor and two other rooms. On the second floor are a full bathroom and three other rooms. A ladder provides access from the second floor to the attic. Miscellaneous pieces of furniture and trash were observed throughout the building. The floors of the building are finished with wood, carpet and ceramic tile. The walls of the building are finished with wood, drywall, and ceramic tile. The ceilings are finished with drywall and wood. The attic is finished with wood flooring, walls and ceilings.

14 Rockview Street

The residential property at 14 Rockview Street is accessed by doorways located on the north and south sides of the building. The entrance on the north side of the building provides access to the first floor. On the first floor are a kitchen, a full bathroom, a stairwell to the basement, a stairwell to the second floor, and five other rooms. The second floor consisted of one large room with slanted ceilings, and contains vent piping for the bathroom on the first floor. The floors are finished with wood, vinyl and ceramic tile, and carpet. The walls are finished with wood paneling and drywall, and the ceilings are finished with particle board tile. The basement was finished with concrete walls and flooring, and contained a steel heating oil AST, a furnace, a hot water heater, electrical circuit panels, and utility piping. No staining or signs of a release were observed in the vicinity of the AST. A doorway located at the southeastern exterior of the building provided access to a crawl space located under the eastern side of the house.

38 Rockview Street

The residential property at 38 Rockview Street is accessed by doorways located on the north, south, east and west sides of the building. The doors on the north, east and west sides of the house provide access to the first floor, while the door on the south side of the house provides access to the basement. The basement contained

a stairwell to the first floor, a full bathroom, and three other rooms, two of which were living spaces and contained couches. The third room contained a steel heating oil AST, a furnace, a hot water heater, electrical circuit panels and utility piping. No staining or signs of a release were observed in the vicinity of the AST. The first floor contained a kitchen, a half bathroom, a stairwell the second floor, a porch, and three other rooms. At the time of the inspection the bathroom was partially demolished, was missing the sink and toilet, and contained piles of demolished drywall. Langan observed that the sink, stove and refrigerator were removed from the kitchen. The porch was open to the southern exterior of the property and contained miscellaneous personal items. The second floor contained a full bathroom and three other rooms. The floors were finished with concrete and vinyl and ceramic tile. The porch was finished with wood. The walls were finished with drywall and wood paneling, and the ceilings were finished with drywall.

46 Rockview Street

The residential property located at 46 Rockview Street is accessed by doorways located at the front (western) and rear (eastern) exteriors of the building. An overhead garage door on the front of the building provides access to the single bay garage. The building is constructed as a raised ranch style house, and the second floor contains the kitchen, a full bathroom, a common living space and three other rooms. Access to the attic is provided by a small hatchway located in the ceiling of the second floor. The first floor contained the garage, a half bath, a large room equipped with a fireplace, and a small hallway. Langan observed a steel heating oil AST located on the first floor underneath the stairwell leading to the front door or the house. No staining or signs of a release were observed in the vicinity of the AST. Adjacent to the AST Langan observed a furnace, a hot water heater, utility piping, and electrical circuit panels. The floors were finished with wood, ceramic tile, concrete and carpet. The walls were finished with drywall and wood paneling. The ceilings were finished with drywall.

24 Rockview Street

The residential property at 24 Rockview Street is accessed by two doorways located at the front (west) side of the house, and one doorway located at the rear (west) side of the house. The two doorways on the front of the building each enter into a small "mudroom" on the first floor. Located on the first floor are a kitchen, a full bathroom, stairwells to the basement and second floor, and two other rooms. Located on the second floor are a full bathroom and four other rooms. A hatchway equipped with a ladder located on the second floor provides access to the attic.

The floors of the first and second floor were finished with wood, ceramic and vinyl tile, and carpet. The walls of the first and second floor are finished with wood paneling and ceramic tile, and the ceilings are finished with drywall. The attic is finished with wood. The basement is finished with a concrete floor, concrete and wood paneling walls, and an exposed wood ceiling. The basement contained a steel heating oil AST, a furnace, a hot water heater, utility piping, electrical circuit panels, and a floor sump equipped with a pump. No staining or signs of a release were observed in the vicinity of the AST or floor sump. A doorway located on the east side of the basement contains a stairwell that provides access to the eastern exterior of the property.

20-22 Rockview Street

The residential property at 20-22 Rockview Street is accessed by two doorways located at the front (west) side of the house, one doorway on the south side of the house, and one doorway on the rear (east) side of the house. The doorway on the left side of the front of the house provides access to an apartment on the second floor of the house. The second floor apartment includes a kitchen, a full bathroom, a stairwell to the first floor of the house, and four other rooms. The doorway on the right side of the front of the house provides access to an apartment on the first floor of the house. The first floor apartment contains a kitchen, a full bathroom, stairwells to the basement and second floors, and four other rooms. The floors on the first and second floors are finished with wood, ceramic and vinyl tile. The walls on the first and second floors are finished with drywall and ceramic tile, and the ceilings are finished with drywall. The basement was finished with concrete floors and walls, and contained two steel heating oil ASTs, two hot water heaters, two furnaces, utility piping, electrical circuit panels, and a floor sump equipped with a pump. No staining or signs of a release were observed in the vicinity of the ASTs or floor sump. Approximately ½-inch of standing water was observed throughout a portion of the basement. A doorway at the east side of the basement provided access to the eastern exterior of the property. Langan observed that the wooden doorframe was partially rotted, and some standing water was observed on the concrete floor just inside the doorway.

5.5 Adjoining Property Observations

A two-story residence, a large vacant lot with portions of deteriorating concrete and asphalt pavement cover, and a custom glass fabrication business are located north of the subject property, across Boston Post Road. The UNH campus exists east of

the Subject Property, with multiple asphalt parking lots and a synthetic turf athletic field directly adjacent to the east of the Subject Property. An automobile maintenance business is located west of the Subject Property across Rockview Street. The surrounding properties to the west and south of the Subject Property consist of residential properties. In general, the properties along Boston Post Road consist of commercial business properties.

6.0 INTERVIEWS AND QUESTIONNAIRES

6.1 ASTM User/Client Questionnaire

User and Owner/Operator questionnaires were submitted to Svigals. Questionnaires associated with Langan's May 2012 Phase I ESA were received by Langan on 3 April 2012, and information provided is discussed in the sections below. The questionnaires were filled out by Louis Annino, the Assistant Vice President for Facilities at UNH, and Mr. George Synodi, the Vice President for Finance & Administration at UNH, for the following properties:

- 3, 6, 7 and 13 Waban Street
- 4 and 14 Daytona Street
- 488 and 496 Boston Post Road

Updated 2013 questionnaires have not been received as of the date of this Phase I ESA. Should answers provided in these questionnaires change any conclusions made in this report, an addendum will be issued.

6.2 Interview with Site Manager

Langan was not accompanied by an escort during the March 2013 Phase I site inspection.

6.3 Interviews with Occupants

Interviews with building occupants were not conducted.

6.4 Interviews with Local Government Officials

Federal, state, and local agencies were contacted via written correspondence, telephone interviews, and/or personnel interviews regarding records of

environmental concerns, violations, and/or permits. A listing of agencies/individuals contacted by Langan as part of this ESA is provided in Table 1.

6.4.1 West Haven Tax Assessor

Langan reviewed files for the Subject Property at the West Haven Tax Assessor's office on 28 March 2013. According to property records, the Subject Property consists of twenty parcels, as described in the table below:

Address	Map/Block	Owner
488 Boston Post Road ⁽¹⁾	59/212	University of New Haven, Inc.
496 Boston Post Road ⁽¹⁾	59/213	University of New Haven, Inc.
506 Boston Post Road ⁽¹⁾	59/214	Radio Communications Corp.
516 Boston Post Road ⁽¹⁾	59/215	Radio Communications Corp.
4 Daytona Street	59/220	University of New Haven, Inc.
9 Daytona Street	59/218	University of New Haven, Inc.
14 Daytona Street	59/221	University of New Haven, Inc.
22 Daytona Street	59/222	Wayne Paulson
23 Daytona Street	59/217	Radio Communications Corp.
14 Rockview Street	59/216	Trustee of Donald E. Jalbert
20-22 Rockview Street	59/119	University of New Haven, Inc.
24 Rockview Street	59/232	Angelina Cordone Criscuolo
34 Rockview Street	59/223	Mahoua Quattara
38 Rockview Street	59/224	University of New Haven, Inc.
46 Rockview Street	59/225	University of New Haven, Inc.
3 Waban Street	59/229	University of New Haven, Inc.
6 Waban Street	59/230	University of New Haven, Inc.
7 Waban Street	59/228	University of New Haven, Inc.
13 Waban Street	59/227	University of New Haven, Inc.
20 Waban Street	59/231	University of New Haven, Inc.

1. Portions of Boston Post Road were formerly known as Orange Avenue.

6.4.2 West Haven Building Department

Langan requested West Haven Building Department records for review on 28 March 2013. Based on a review of the tax cards at the assessor's office, building permits had been granted for residential remodeling activities on a number of the Subject Property parcels. Langan reviewed permits provided by the Building Department staff, and no files of environmental concern were present for the Subject Property.

6.4.3 West Haven Engineering Department

Langan requested files for the Subject Property from the West Haven Engineering Department on 28 March 2013. According to the Engineering Department staff no files were present for the Subject Property.

6.4.4 Allington Fire District Fire Marshal's Office

Langan requested files for the Subject Property from the Allington Fire District Fire Marshal's Office on 28 March 2013. Langan reviewed UST registration forms and inspection reports for sites within the Allington Fire District in West Haven, and found no files of environmental concern for the Subject Property.

6.4.5 West Haven Planning Department

Langan requested files at the West Haven City Planning Department on 28 March 2013. According to Planning Department staff, no files were present for the Subject Property.

6.4.6 West Haven Health Department

Langan requested files at the West Haven Health Department on 27 March 2013. According to the Health Department staff, no files were present for the Subject Property.

6.5 Connecticut Department of Environmental Protection

Langan requested files at the Connecticut Department of Energy and Environmental Protection (CTDEEP) on 3 April 2013 regarding records of environmental concerns, violations, and/or permits for the Subject Property and surrounding properties. The

request was submitted to supplement information obtained during the environmental database review and review of previous environmental reports. No records of environmental concern were found for the Subject Property. Files reviewed for adjacent and surrounding properties are discussed in Section 4.1.

6.6 Interviews with Others

No interviews with officials other than those listed above were completed during this ESA.

7.0 FINDINGS

Based on information obtained during the visual inspection of the Subject Property, review of environmental databases and historic information, and contact with federal/state/local official agencies, the following Recognized Environmental Conditions (RECs) that may impact proposed redevelopment of the Subject Property were identified:

- Former Site Uses/Activities at 488 Boston Post Road;
 - Concrete Maintenance Pit
 - Interior Trench Drains
 - Heating Oil UST
 - Suspect Septic Tank and Leaching Field
- Former Site Uses/Activities at 496 Boston Post Road;
 - Heating Oil UST
 - Suspect Septic Tank and Leaching Field
 - Former Site Uses
- Above ground storage tank at 506 Boston Post Road;
- Abandoned ASTs, drums and trash at 516 Boston Post Road;
- Historic on-site fill; and
- Surrounding Properties.

The following Historic Recognized Environmental Conditions (HRECs) were identified:

- Historic petroleum impacted soil remediation at 4 and 14 Daytona Street.

The following Business Environmental Risks (BERs) were identified:

- Residential heating oil tanks; and
- Connecticut Property Transfer Program.

8.0 OPINIONS

It is the opinion of the environmental professionals that the RECs identified above have a potential to impact subsurface soils and groundwater on the Subject Property.

9.0 CONCLUSIONS

Based on information obtained during the visual inspection of the Subject Property, review of environmental databases and historic information, and contact with federal/state/local official agencies, the following that may impact proposed redevelopment of the Subject Property were identified.

Recognized Environmental Conditions

It is the opinion of the environmental professional that the following represent recognized environmental conditions:

REC #1 –Former Site Uses/Activities at 488 Boston Post Road

According to information gathered during this Phase I ESA, as well as information provided in previous reports prepared by others, numerous RECs associated with previous property uses were identified.

Concrete Maintenance Pit

During Langan's interior inspection of the building at 488 Boston Post Road, an area approximately 4-feet by 11-feet covered with wood planks was observed within the commercial garage. According to UNH personnel, a floor pit exists beneath the planks, which was utilized for vehicle maintenance. Langan was not provided access to the floor pit to conduct an inspection, so it is unknown if any releases to the subsurface occurred as a result of activities conducted within the pit. According to a December 2000 Phase I ESA performed by Gigliotti Environmental Services (GES), the former site owner identified the maintenance pit as a solid concrete bottom structure. GES was not provided access to the floor pit to confirm. Due to the limited information regarding this structure, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Interior Trench Drains

Previous site inspections conducted by others identified two trench drains located in the main garage, which reportedly outlet along the eastern building wall. According to the former site owner, one of the trench drains was reportedly covered in concrete upon expansion of the office space, and the second trench drain was located along the eastern interior building wall. The drains were not identified during GZA's 2011 site inspection or Langan's Phase I site inspection, due to the presence of stacked maintenance materials

along the building wall. These drains were reportedly installed with the sole purpose of collecting ponded water which accumulated from truck storage (i.e. snow melt, rain water, etc.), and were not utilized for any additional discharge purposes. Soil investigations performed by GZA did not include the advancement of soil borings along the eastern property line, so it is unknown at this time if impacts from spills or discharges to the trench drains exist, and it is the opinion of the Environmental Professional that this represents a REC.

Heating Oil Underground Storage Tank

Previous site investigations identified an underground storage tank (UST) in the northeast corner of the site, which reportedly contained fuel oil used for heating the building. The tank was reportedly installed when the building was constructed in 1963 and emptied in 1981 when the site was connected to natural gas. Evidence of a UST was not identified by Langan during the Phase I site inspection. Information presented in previous reports indicated that the UST may potentially range in size from 275- to 1,000-gallons, and be as large as 4-feet in diameter; the exact size of the UST is still unknown. According to the former site owner, as identified in the GZA Phase I ESA, the UST was reportedly emptied with a vacuum truck and sealed with an expandable material in September/October 2011. During Langan's research at the Connecticut Department of Energy and Environmental Protection (CTDEEP), a spill report was located for the Subject Property at 76 Isadore Street/488 Boston Post Road. According to the 26 September 2011 report, petroleum contamination was identified in a dry stream bed. According to the GZA November 2011 Phase I ESA, this spill originated from the UST on the site. Conversations with the Fire Marshall indicated that the fill port on the UST had been sheared off, and rainwater and surface runoff had infiltrated the UST. Soil and groundwater samples were collected in the vicinity of the UST by GZA to investigate potential impacts associated with the release. Low concentrations of petroleum-related compounds were identified in the soil samples collected below applicable CTDEEP Remediation Standard Regulation (RSR) clean-up criteria. No evidence of a release was identified in the groundwater sample collected south of the UST; however, data gaps exist in the previous sampling plan. As a release from this UST was previously identified and requires additional investigation, it is the opinion of the Environmental Professional that this represents a REC.

Suspect Septic Tank and Leaching Field

GZA identified a septic tank in the northwest corner of the site, and this location was confirmed by Langan during our Phase I site inspection. According to information maintained at the City of New Haven Tax Assessor's office, the site is serviced by public utilities; however, an interview conducted with the former owner by GZA indicated that

waste from the bathroom was directed to the on-site septic system. The location of associated leaching field is unknown, and no information regarding the septic system was available for review at the City of New Haven municipal offices. Soil and groundwater samples collected in the areas surrounding the septic tank did not identify any releases to the subsurface; however, data gaps exist in the previous sampling plan. Due to the unknown nature of the septic tank and leaching field, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

REC #2 – Former Site Use/Activities at 496 Boston Post Road

According to information gathered during this Phase I ESA, as well as information provided in previous reports prepared by others, numerous RECs associated with previous property uses were identified.

Heating Oil UST

A tank fill port was observed extending from within a concrete block enclosure in the southeastern corner of the building. According to previous reports by others, a fuel oil UST of unknown size and age is buried in this location. The City of West Haven Assessor's card indicates that this building is heated by fuel oil; however, no UST Registration form was maintained in the CTDEEP files for this property. During GZA's December 2011 subsurface investigation, two soil borings were advanced in the area surrounding the UST to a maximum depth of 1 foot below grade (refusal reported to be shallow bedrock). Soil analytical results identified petroleum-related compounds at concentrations below applicable RSR criteria; however, the samples were collected at the ground surface, and not immediately below the anticipated depth of the UST. Due to the unknown condition of the UST, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Suspect Septic Tank and Leaching Field

Previously conducted site investigations by others identified a potential on-site septic system. However, no information was provided by the former site owner regarding the location, age, and size of the septic tank or the location of the associated leaching field. During Langan's document review at the City of West Haven, no information was provided regarding the presence of the on-site septic system. Due to the unknown nature of the septic tank and leaching field, and the potential for impacts to the subsurface, it is the opinion of the Environmental Professional that this represents a REC.

Former Site Uses

According to previous reports, an auto electric repair facility reportedly operated on the site from the early 1960s through early 2011. During a Langan's Phase I site inspection performed by GZA in October 2011, interior operations consisting of a machining room, parts storage area, and office space were noted. Oil staining was observed on the floor in the machining area surrounding various pieces of equipment, and some corrosion was noted around one of the machines. A sink was observed in the parts storage area, and according to the previous site owner, reportedly discharges to the on-site septic system. Various chemical and petroleum product storage was identified in the GZA Phase I ESA, as well as on the chemical inventory provided by UNH during completion of the Owner/Operator questionnaires. No additional information was provided regarding the chemical storage areas. Due to the potential for impacts to the subsurface as a result of historic site operations, it is the opinion of the Environmental Professional that this represents a REC.

REC #3 – Aboveground Storage Tank at 506 Boston Post Road

During Langan's Phase I site inspection of 506 Boston Post Road, an approximately 275-gallon heating oil aboveground storage tank (AST) was observed along the southern exterior of the residential building. The AST was observed to be empty, in generally poor condition, and positioned directly on soil. The exact age and former contents of the AST are unknown. According to the City of West Haven Tax Assessor, this property is heated with coal and/or wood. Due to the lack of information on the AST, its poor condition and exterior location, it is the opinion of the Environmental Professional that this represents a REC.

REC #4 - Abandoned ASTs, drums and trash at 516 Boston Post Road

During the Phase I site inspection of 516 Boston Post Road, Langan observed two abandoned ASTs, several 55-gallon drums, and miscellaneous trash within a depressed area located at the northwestern portion of this property. A partial building foundation was also observed within this area and appeared to be filled with miscellaneous construction materials. The base of the depressed area contained standing water that appeared to be approximately two feet deep. The ASTs, several drums and various pieces of trash were submerged or partially submerged in the standing water. The ASTs and drums were observed to be empty and were in poor condition with heavy rust and corrosion. The ASTs appeared to have approximate volume capacities of 275-gallons each, and were very similar to the heating oil ASTs observed at the remaining residential properties that are part of the Subject Property.

REC #5 – Surrounding Properties

Some surrounding properties were identified that may have the potential to impact the soil and groundwater quality beneath the Subject Property, including Tire Country and Forest Theater. Tire Country was formerly located adjacent to the Subject Property to the east, in the current location of a parking lot designated for use by UNH faculty and staff. According to reports reviewed at the CTDEEP, total petroleum hydrocarbons (TPH) were detected in six of eight soil samples collected across the site during investigation activities conducted by TAQ, Inc. in December 1998. The highest concentration of TPH was detected at the eastern property line, abutting the Subject Property, at concentrations exceeding CTDEEP clean-up criteria. Dissolved phase petroleum impacts were also identified in the groundwater beneath the site. Although no additional soil or groundwater data was available beyond 1998, there is a chance that releases from the former USTs to the subsurface may have migrated onto the Subject Property, and it is the opinion of the Environmental Professional that these properties represent a REC.

REC #6 – Historic Fill Material

According to the 2012 Phase I Environmental Site Investigations (ESI) conducted by GZA, a layer of fill material was encountered at 488 and 496 Boston Post Road. The fill material was encountered during an investigation of shallow soils ranging to a depth of three feet below grade, and consisted of reddish-brown to brown fine to coarse sand, with silt and fine to coarse gravel, and traces of asphalt and/or red brick. Soil samples collected by GZA were analyzed for ETPH and detected concentrations below RSR criteria. During Langan's January 2012 Geotechnical Investigation miscellaneous fill material of similar consistency observed by GZA was encountered at the Subject Property at depths ranging up to eight feet below grade. It is the opinion of the Environmental Professional that the potential presence of impacted fill material at the Subject Property constitutes a REC.

Historic Recognized Environmental Conditions

It is the opinion of the environmental professional that the following represent historic recognized environmental conditions:

HREC#1 – Historic Petroleum Impacted Soil Remediation at 4 and 14 Daytona Street

According to previous reports reviewed by Langan, former site uses at the 4 and 14 Daytona Street parcel consisted of a construction company, and sheet metal and cement pipe manufacturer. In association with the site activities, a 275-gallon fuel oil aboveground storage tank (AST), 275-gallon waste oil AST, and fuel dispensing truck with a gasoline pump were located at the site. A Phase I ESA performed by Environmental Risk Limited (ERL) in July 2005 identified staining on the ground surface surrounding the waste oil AST and fuel truck. During site investigations performed in 2005 and 2006 by others, elevated

concentrations of extractable total petroleum hydrocarbons (ETPH) were identified in shallow soils (maximum 3 feet below grade) adjacent to the waste oil AST and fuel truck. In conjunction with the site owner vacating the property, approximately 35-40 tons of impacted soils were excavated and disposed of off-site from the two areas of concern identified above. As impacts from these areas have been removed, and post-excavation samples did not reveal the presence of any remaining impacts in the ground, it is the opinion of the Environmental Professional that the site use at 4 and 14 Daytona Street are considered an HREC.

Business Environmental Risks

It is the opinion of the environmental professional that the following represent business environmental risks:

BER#1 – Residential Heating Oil Tanks

During Langan's site inspection of the residential properties on the Subject Property, ASTs were observed at 6 of the 7 of the residential properties. A fill port was noticed at 34 Rockview Street; however, access was not provided to confirm the presence of an AST. During future site development the ASTs should be removed, handled and disposed of in accordance with the applicable Federal, State and local regulations.

BER#2 – Property Transfer Program

488 Boston Post Road

Information provided to Langan by the University of New Haven included Hazardous Waste Manifests for the disposal of waste from the 488 Boston Post Road property on 23 February 2012. Wastes listed on the manifest include 400 pounds of sulfuric acid, 300 pounds of hydrochloric acid, and 700 pounds of chloroform. As the quantity of wastes generated on the site exceed 100 kilograms for any one month, the 488 Boston Post Road property likely meets the definition of an "Establishment" in accordance with the CTDEEP Property Transfer Act.

496 Boston Post Road

According to a review of historic information, the property at 496 Boston Post Road was reportedly occupied by an auto electric repair facility from the early 1960s through sometime in 2011. No additional information about the type of auto repair or maintenance operations was available for review. It should be noted that if the former property use at 496 Boston Post Road included any form of auto body work, or if hazardous wastes were generated on the site exceeding 100 kilograms for any one month, the 496 Boston Post

Road property may meet the definition of an "Establishment" in accordance with the CTDEEP Property Transfer Act.

Obligations under the Property Transfer Act can include CTDEEP form filings, site investigation, potential remediation activities, and compliance monitoring until the applicable Connecticut Remediation Standard Regulation criteria are achieved. An Environmental Land Use attorney should be retained to verify the status of Subject Property with respect to the Property Transfer Act.

10.0 DATA GAPS/DEVIATIONS

This Phase I ESA conforms to ASTM with the following deviations noted:

- Interviews of former business operators were not conducted;
- A title search for the Subject Property was not provided to Langan by the User; and
- An interior inspection of 34 Rockview Street was not conducted as Langan was not provided with access to this property:

It is the opinion of the reviewing Environmental Professional that with the exception of the inaccessible properties, the above-deficiencies should not detrimentally affect the identification of potential recognized environmental conditions.

11.0 ADDITIONAL ISSUES (NON-ASTM)

The following items fall outside the scope of ASTM 1527-05: wetlands/floodplain designation, protected endangered species/critical habitats, asbestos-containing materials (ACM), lead-based paint, lead in drinking water, indoor air quality/microbial assessment (mold), radon, historical/archaeological review, regulatory compliance, industrial hygiene, health and safety, and universal waste. However, Langan can and often does provide these services to its clients if specifically requested and included in the proposed scope of work or are issues that may impact current or proposed site use.

12.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We, the undersigned, declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312 and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property as documented in Appendix I. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Site Inspection and Report Written By:



Kyle Zalaski, E.I.T.
Staff Engineer

Report Reviewed By:



Kathleen Blessing, LEED AP
Project Scientist



Jamie P. Barr, L.E.P.
Senior Project Manager

13.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

The résumé's of the Environmental Professionals are provided in Appendix I.

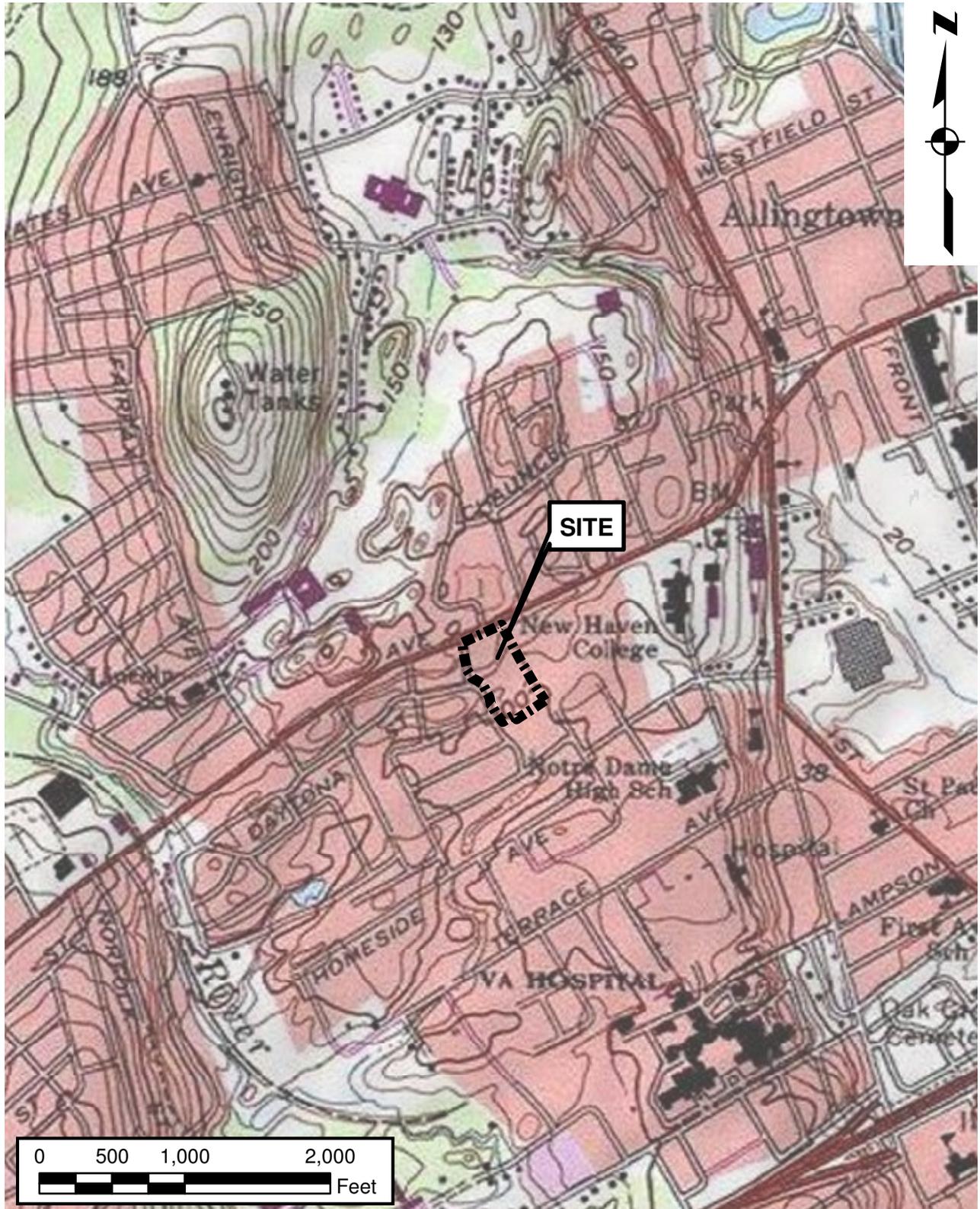
TABLE

Table 1

List of Contacts

<u>State:</u>	<u>Local (Continued):</u>
Connecticut Department of Energy and Environmental Protection – Public File Room 79 Elm Street Hartford, CT 06106	West Haven Building Department 355 Main Street West Haven, Connecticut Phone: (203) 937-3590
<u>Local:</u>	Allingtown Fire Marshall 3 rd District 20 Admiral Street West Haven, Connecticut Phone: (203) 933-2541
West Haven Tax Assessor's Office 355 Main Street West Haven, Connecticut Phone: (203) 937-3515	West Haven Health Department 355 Main Street West Haven, Connecticut Phone: (203) 937-3660
West Haven Engineering Department 355 Main Street West Haven, Connecticut Phone: (203) 937-3575	City of West Haven Mapping Web Site: http://www.westhavengis.com/
West Haven City Planning & Zoning Department 355 Main Street West Haven, Connecticut Phone: (203) 937-3580	

FIGURES



REFERENCES: USGS QUADRANGLE MAP FOR WEST HAVEN, CONNECTICUT



555 Long Wharf Drive New Haven, CT 06511
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 www.langan.com

NEW JERSEY PENNSYLVANIA NEW YORK CONNECTICUT FLORIDA NEVADA

Project

USGS MAP

ENGINEERING & SCIENCE UNIVERSITY
 MAGNET SCHOOL - ROCKVIEW SITE

WEST HAVEN

CONNECTICUT

Project No.

140068601

Date

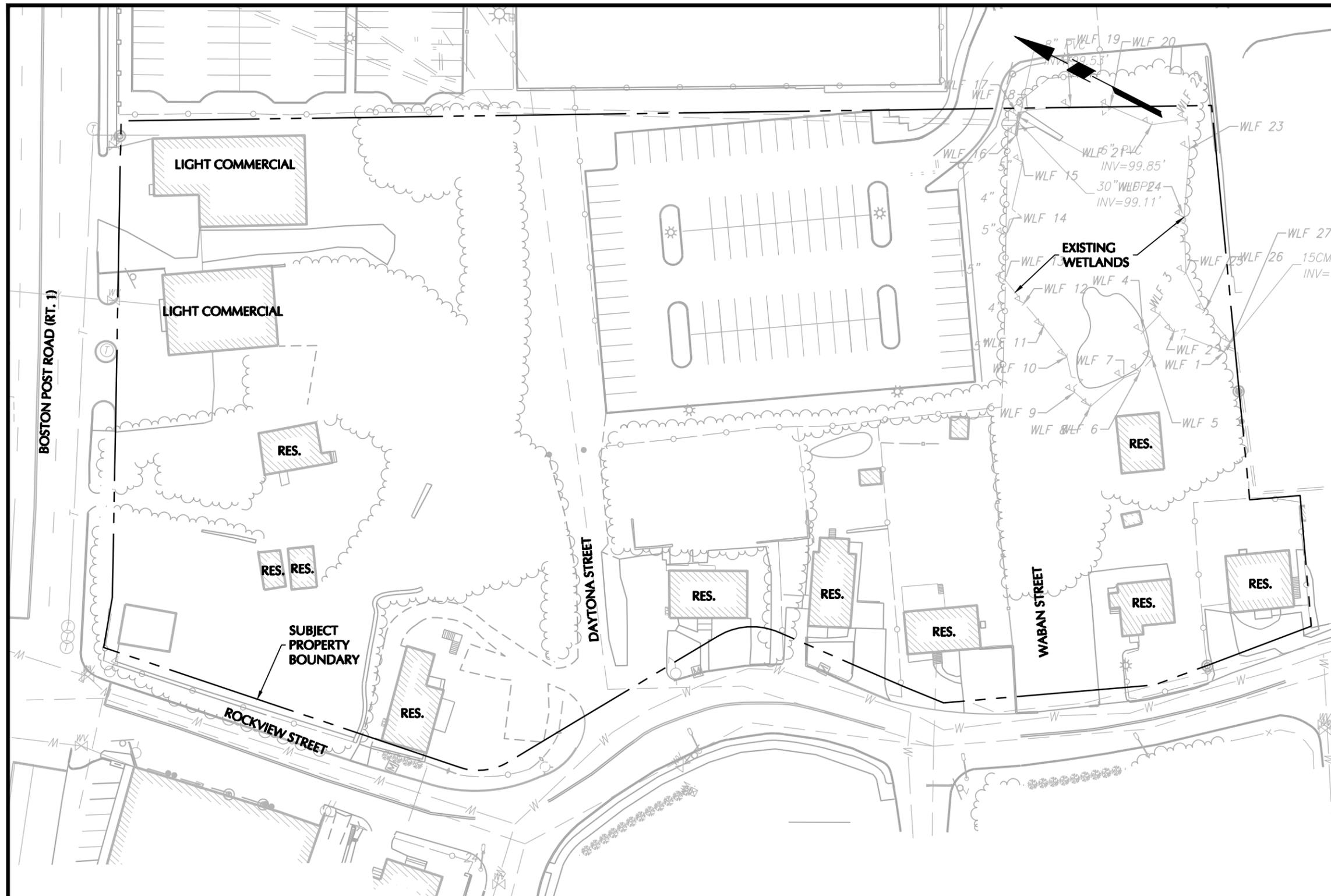
4/5/2013

Scale

1"=1,000'

Fig. No.

1



GENERAL NOTES

1. BOUNDARY AND TOPOGRAPHIC INFORMATION WAS OBTAINED FROM A SURVEY COMPLETED BY LANGAN ENGINEERING & ENVIRONMENTAL SERVICES, DATED 4/4/13.



LANGAN

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Langan Engineering, Environmental, Surveying and
Landscape Architecture, D.P.C.

Langan Engineering and Environmental Services, Inc.
Langan International LLC

Collectively known as Langan

Project

**ENGINEERING & SCIENCE
UNIVERSITY MAGNET
SCHOOL - ROCKVIEW SITE**

WEST HAVEN

Drawing Title

**EXISTING
CONDITIONS
PLAN**

CONNECTICUT

Project No.
140068601

Date
4/4/13

Scale
1"=60'

Drawn By
ALS

Submission Date
4/5/13

Drawing No.

FIG 2

APPENDIX A

User/Client Questionnaires



ASTM PRACTICE E 1527-05 USER/CLIENT QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Providing the following information (if available) to the environmental professional (Langan) is one of the requirements to qualify for one of the *Landowner Liability Protections* (LLP) offered under CERCLA. Missing or incomplete information for questions 1 through 6 could result in a determination that "all appropriate inquiry" is not complete. The information requested in items 7 through 11 will be used to determine if the property is an establishment as defined in Sections 22a-134 of the Connecticut General Statutes.

General Information

User/Client Name (s): UNIVERSITY OF NEW HAVEN
Property Name: 3, 6, 7, 13 WABAN STREET
Address: WEST HAVEN CT 06516
Property Type: RESIDENTIAL (VACANT LAND)

Type of Property Transaction:

- Purchase of property
- Financing of property
- Sale of property
- Ground Lease
- Build to Suit Lease
- Other _____

Reason Why Phase I ESA is required: _____

Site Contact (s): _____

Required Information

The citation at the end of each item (e.g. 40 CFR 312.XX) is the section of EPA's November 1, 2005 AAI Final Rule which discusses that item.

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25). Yes No
Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the Phase I ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any environmental liens and to report these liens to the environmental professional conducting a Phase I ESA.]



(2.) Activity and Land Use (AUL) limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26). **Yes No**
 Are you aware of any AULs, such as engineering controls, environmental land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any activity and use limitations and to report these limitations to the environmental professional conducting a Phase I Environmental Site Assessment.]

(3.) Specialized knowledge or experience of the person seeking to qualify for LLP (40 CFR 312.28). **Yes No**
 (a.) Does the purchase price being paid for this property reasonably reflect the fair market value of the property? [If no, proceed to Parts 4a and 4b.]
 (b.) If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?
 (c.) Identify an explanation for the lower price and provide a written record of such explanation as an attachment.

(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). **Yes No**
 Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? If yes, identify an explanation for the lower price and provide a written record of such explanation.

13 WABAN - \$12,622 , 7 WABAN \$51,501 , 346 WABAN \$18,118

(5.) Commonly known or reasonably known or reasonably ascertainable information about the property (40 CFR 312.30). **Yes No**
 Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,
 (a.) Do you know the past uses of the property? VACANT LAND
 (b.) Do you know of specific chemicals that are present or once were present at the property?
 (c.) Do you know of spills or other chemical releases that have taken place at the property?
 (d.) Do you know of any environmental cleanups that have taken place at the property?
 (e.) Do you know of any underground storage tanks that currently exist on the property?
 (f.) Do you know of any underground storage tanks that have historically existed at the property?

(6.) The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). **Yes No**
 As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?

(7.) As the user of this ESA, based on your knowledge and experience related to the property, have more than one hundred kilograms of hazardous waste (excluding wastes generated as a result of remediation of polluted soil, groundwater or sediment) been generated at the property in any one month since November 19, 1980? **Yes No**



ASTM PRACTICE E 1527-05 USER/CLIENT QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Providing the following information (if available) to the environmental professional (Langan) is one of the requirements to qualify for one of the *Landowner Liability Protections* (LLP) offered under CERCLA. Missing or incomplete information for questions 1 through 6 could result in a determination that "all appropriate inquiry" is not complete. The information requested in items 7 through 11 will be used to determine if the property is an establishment as defined in Sections 22a-134 of the Connecticut General Statutes.

General Information

User/Client Name (s): UNIVERSITY OF NEW HAVEN

Property Name: 4614 DAYTONA STREET

Address: WEST HAVEN CT,

Property Type: RESIDENTIAL

Type of Property Transaction:

- Purchase of property
- Financing of property
- Sale of property
- Ground Lease
- Build to Suit Lease
- Other _____

Reason Why Phase I ESA is required: _____

Site Contact (s): _____

Required Information

The citation at the end of each item (e.g. 40 CFR 312.XX) is the section of EPA's November 1, 2005 AAI Final Rule which discusses that item.

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).

Yes No

Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the Phase I ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any environmental liens and to report these liens to the environmental professional conducting a Phase I ESA.]



(2.) Activity and Land Use (AUL) limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26). **Yes** **No**

Are you aware of any AULs, such as engineering controls, environmental land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any activity and use limitations and to report these limitations to the environmental professional conducting a Phase I Environmental Site Assessment.]

(3.) Specialized knowledge or experience of the person seeking to qualify for LLP (40 CFR 312.28). **Yes** **No**

- (a.) Does the purchase price being paid for this property reasonably reflect the fair market value of the property? [If no, proceed to Parts 4a and 4b.]
- (b.) If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?
- (c.) Identify an explanation for the lower price and provide a written record of such explanation as an attachment. *NO APPRAISAL CONDUCTED*

PAID \$400,000 FOR BOTH PROPERTIES
(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). **Yes** **No**

Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? If yes, identify an explanation for the lower price and provide a written record of such explanation.

SEE ENVIRONMENTAL PH. I/2 & CLEAN UP DOCS PROVIDED

(5.) Commonly known or reasonably known or reasonably ascertainable information about the property (40 CFR 312.30). **Yes** **No**

- Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,
- (a.) Do you know the past uses of the property?
 - (b.) Do you know of specific chemicals that are present or once were present at the property?
 - (c.) Do you know of spills or other chemical releases that have taken place at the property?
 - (d.) Do you know of any environmental cleanups that have taken place at the property?
 - (e.) Do you know of any underground storage tanks that currently exist on the property?
 - (f.) Do you know of any underground storage tanks that have historically existed at the property?

*PH1/PH2 Limited
 ESA 9/05, 7/06,
 7/06*

(6.) The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). **Yes** **No**

As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?

(7.) As the user of this ESA, based on your knowledge and experience related to the property, have more than one hundred kilograms of hazardous waste (excluding wastes generated as a result of remediation of polluted soil, groundwater or sediment) been generated at the property in any one month since November 19, 1980? **Yes** **No**

- (8.) As the user of this ESA, based on your knowledge and experience related to the property, have hazardous waste generated at a different location been recycled, reclaimed, reused, stored, handled, treated, transported to or disposed of at the property? Yes No
- (9.) As the user of this ESA, based on your knowledge and experience related to the property, has the process of dry cleaning been conducted on or after May 1, 1967? Yes No
- (10.) As the user of this ESA, based on your knowledge and experience related to the property, has furniture stripping been conducted on the property since May 1, 1967? Yes No
- (11.) As the user of this ESA, based on your knowledge and experience related to the property, has a vehicle body repair facility been located on the property since May 1, 1967? Yes No

SIGNATURE:

It is understood that the information presented in this form is an integral part of the Phase I ESA process and that Langan will evaluate and rely on this information in the development of the final Phase I ESA report.

Completed By: L. ANNINO *Louis Annino*
Print/Type Name: L. ANNINO
Title: AUP FACILITIES
Company: UNIVERSITY OF NEW HAVEN
Date: 3/27/12



ASTM PRACTICE E 1527-05 USER/CLIENT QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Providing the following information (if available) to the environmental professional (Langan) is one of the requirements to qualify for one of the *Landowner Liability Protections* (LLP) offered under CERCLA. Missing or incomplete information for questions 1 through 6 could result in a determination that "all appropriate inquiry" is not complete. The information requested in items 7 through 11 will be used to determine if the property is an establishment as defined in Sections 22a-134 of the Connecticut General Statutes.

General Information

User/Client Name (s): University of New Haven

Property Name: 488 ORANGE AVENUE & 9 DAYTONA STREET

Address: WEST HAVEN, CT

Property Type: Commercial

Type of Property Transaction:

- Purchase of property
- Financing of property
- Sale of property
- Ground Lease
- Build to Suit Lease
- Other _____

Reason Why Phase I ESA is required: _____

Site Contact (s): _____

Required Information

The citation at the end of each item (e.g. 40 CFR 312.XX) is the section of EPA's November 1, 2005 AAI Final Rule which discusses that item.

(1.) **Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).**

Yes No

Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the Phase I ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any environmental liens and to report these liens to the environmental professional conducting a Phase I ESA.]



(2.) Activity and Land Use (AUL) limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26). Yes No
 Are you aware of any AULs, such as engineering controls, environmental land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any activity and use limitations and to report these limitations to the environmental professional conducting a Phase I Environmental Site Assessment.]

(3.) Specialized knowledge or experience of the person seeking to qualify for LLP (40 CFR 312.28). Yes No

- (a.) Does the purchase price being paid for this property reasonably reflect the fair market value of the property? [If no, proceed to Parts 4a and 4b.]
- (b.) If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? *see below*
- (c.) Identify an explanation for the lower price and provide a written record of such explanation as an attachment.

APPRAISED AT \$ 325,000 ; PAID \$ 125,000 BASED ON DEMAND FROM OTHER PURCHASER

(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). Yes No

Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? If yes, identify an explanation for the lower price and provide a written record of such explanation.

PURCHASE PRICE UNRELATED TO ANY POSSIBLE ENVIRONMENTAL ISSUES WITH THE PROPERTY.

(5.) Commonly known or reasonably known or reasonably ascertainable information about the property (40 CFR 312.30). Yes No

Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,

- (a.) Do you know the past uses of the property?
- (b.) Do you know of specific chemicals that are present or once were present at the property?
- (c.) Do you know of spills or other chemical releases that have taken place at the property?
- (d.) Do you know of any environmental cleanups that have taken place at the property?
- (e.) Do you know of any underground storage tanks that currently exist on the property?
- (f.) Do you know of any underground storage tanks that have historically existed at the property?

*SEE PH 1 & PH 2
 ESA (12/00, 11/11,
 1/12) - DISK
 COPY
 - (ALL REMOVED)*

(6.) The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). Yes No

As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?

(7.) As the user of this ESA, based on your knowledge and experience related to the property, have more than one hundred kilograms of hazardous waste (excluding wastes generated as a result of remediation of polluted soil, groundwater or sediment) been generated at the property in any one month since November 19, 1980? Yes No

As a result of chemical cleanup 2/23/2012.

- (8.) As the user of this ESA, based on your knowledge and experience related to the property, have hazardous waste generated at a different location been recycled, reclaimed, reused, stored, handled, treated, transported to or disposed of at the property? Yes No
- (9.) As the user of this ESA, based on your knowledge and experience related to the property, has the process of dry cleaning been conducted on or after May 1, 1967? Yes No
- (10.) As the user of this ESA, based on your knowledge and experience related to the property, has furniture stripping been conducted on the property since May 1, 1967? Yes No
- (11.) As the user of this ESA, based on your knowledge and experience related to the property, has a vehicle body repair facility been located on the property since May 1, 1967? Yes No

SIGNATURE:

It is understood that the information presented in this form is an integral part of the Phase I ESA process and that Langan will evaluate and rely on this information in the development of the final Phase I ESA report.

Completed By: _____



Print/Type Name: _____

GEORGE S. SYNODI

Title: _____

VIC PRESIDENT for FINANCE & Administration

Company: _____

University of New Haven

Date: _____

MARCH 13, 2012



ASTM PRACTICE E 1527-05 USER/CLIENT QUESTIONNAIRE

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Providing the following information (if available) to the environmental professional (Langan) is one of the requirements to qualify for one of the *Landowner Liability Protections* (LLP) offered under CERCLA. Missing or incomplete information for questions 1 through 6 could result in a determination that "all appropriate inquiry" is not complete. The information requested in items 7 through 11 will be used to determine if the property is an establishment as defined in as defined in Sections 22a-134 of the Connecticut General Statutes.

General Information

User/Client Name (s): University of New HAVEN

Property Name: 496 ORANGE AVENUE

Address: WEST HAVEN, CT

Property Type: COMMERCIAL

Type of Property Transaction:

- Purchase of property
- Financing of property
- Sale of property
- Ground Lease
- Build to Suit Lease
- Other _____

Reason Why Phase I ESA is required: _____

Site Contact (s): _____

Required Information

The citation at the end of each item (e.g. 40 CFR 312.XX) is the section of EPA's November 1, 2005 AAI Final Rule which discusses that item.

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25). Yes No

Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the Phase I ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any environmental liens and to report these liens to the environmental professional conducting a Phase I ESA.]



(2.) Activity and Land Use (AUL) limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26). **Yes No**

Are you aware of any AULs, such as engineering controls, environmental land use restrictions or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law? [Please note, unless specifically delegated in the Scope of Work for the ESA, it is the User's responsibility to undertake a review of recorded land title records and judicial records to identify any activity and use limitations and to report these limitations to the environmental professional conducting a Phase I Environmental Site Assessment.]

(3.) Specialized knowledge or experience of the person seeking to qualify for LLP (40 CFR 312.28). **Yes No**

- (a.) Does the purchase price being paid for this property reasonably reflect the fair market value of the property? [If no, proceed to Parts 4a and 4b.]
- (b.) If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? see below
- (c.) Identify an explanation for the lower price and provide a written record of such explanation as an attachment.

APPRaised AT \$ 240,000 ; ASID \$ 340,000 based on DEMAND from other potential BUYER

(4.) Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29). **Yes No**

Does the purchase price being paid for this property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? If yes, identify an explanation for the lower price and provide a written record of such explanation.

PURCHASE PRICE UNRELATED TO ANY POSSIBLE ENVIRONMENTAL ISSUES WITH THE PROPERTY.

(5.) Commonly known or reasonably known or reasonably ascertainable information about the property (40 CFR 312.30). **Yes No**

Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,

- (a.) Do you know the past uses of the property?
- (b.) Do you know of specific chemicals that are present or once were present at the property?
- (c.) Do you know of spills or other chemical releases that have taken place at the property?
- (d.) Do you know of any environmental cleanups that have taken place at the property?
- (e.) Do you know of any underground storage tanks that currently exist on the property?
- (f.) Do you know of any underground storage tanks that have historically existed at the property?

(SEE PH 1/2 ESA 11/11, 1/12)



(6.) The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31). **Yes No**

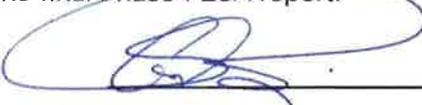
As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?

(7.) As the user of this ESA, based on your knowledge and experience related to the property, have more than one hundred kilograms of hazardous waste (excluding wastes generated as a result of remediation of polluted soil, groundwater or sediment) been generated at the property in any one month since November 19, 1980? **Yes No**

- (8.) As the user of this ESA, based on your knowledge and experience related to the property, have hazardous waste generated at a different location been recycled, reclaimed, reused, stored, handled, treated, transported to or disposed of at the property? Yes No
- (9.) As the user of this ESA, based on your knowledge and experience related to the property, has the process of dry cleaning been conducted on or after May 1, 1987? Yes No
- (10.) As the user of this ESA, based on your knowledge and experience related to the property, has furniture stripping been conducted on the property since May 1, 1987? Yes No
- (11.) As the user of this ESA, based on your knowledge and experience related to the property, has a vehicle body repair facility been located on the property since May 1, 1987? Yes No

SIGNATURE:

It is understood that the information presented in this form is an integral part of the Phase I ESA process and that Langan will evaluate and rely on this information in the development of the final Phase I ESA report.

Completed By: 

Print/Type Name:

GEORGE S. SYNODI

Title:

VICE PRESIDENT for FINANCE & ADMINISTRATION

Company:

UNIVERSITY of New HAVEN

Date:

MARCH 13, 2012

Appendix B
Owner/Operator/Site Manager
Questionnaires



**ASTM PRACTICE E 1527-05:
OWNER/OPERATOR/SITE-MANAGER QUESTIONNAIRE**

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Project Location/Address: 3,6,7,13 WABAN STREET
WEST HAVEN CT

ASTM E-1527-05, Section 10.8

Are you aware if any of the documents listed below exists and if so, whether copies can and will be provided to the Consultant performing the ESA?

	Unaware	Document Exists	Copy will be provided
Environmental site assessment reports	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Environmental compliance audit reports	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Environmental permits (such as solid waste disposal permits, hazardous waste disposal permits, NPDES permits, wastewater permits, underground injection permits)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Registrations for underground and aboveground storage tanks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Material safety data sheets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Community-right-to-know plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plans, etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reports regarding hydrogeologic conditions on the property or surrounding area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hazardous waste generator notices or reports	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Underground storage tank registrations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Geotechnical studies	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Risk Assessments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recorded Activity and Use Limitations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Environmental Cleanup Reports	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



ASTM E-1527-05, Section 10.9

Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property? **Yes** **No**

Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property? **Yes** **No**

Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products? **Yes** **No**

Do you have contact information for the prior owner of the property? **Yes** **No**
If yes, please provide information below:

Prior Owner's Name _____

Contact person _____

Address _____

Telephone _____

Do you have contact information for the prior occupant of the property? **Yes** **No**
If yes, please provide information below:

Prior Occupant's Name _____

Contact person _____

Address _____

Telephone _____

Do you have information on the prior facility manager of the property? Yes No
If yes, please provide information below:

Prior Facility Manager's Name _____

Contact person _____

Address _____

Telephone _____

This form was completed by:

Property Owner Operator Key Site Manager User EP

Name: UNIVERSITY OF NEW HAVEN

Address: 300 BOSTON POST ROAD

WEST HAVEN, CT 06516

Signature: *James Amato* Date: 3/27/12
AVP FOR FACILITIES



**ASTM PRACTICE E 1527-05:
OWNER/OPERATOR/SITE-MANAGER QUESTIONNAIRE**

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Project Location/Address: 4614 DAYTONA ST
WEST HAVEN CT

ASTM E-1527-05, Section 10.8

Are you aware if any of the documents listed below exists and if so, whether copies can and will be provided to the Consultant performing the ESA?

	Unaware	Document Exists	Copy will be provided
Environmental site assessment reports	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Environmental compliance audit reports	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Environmental permits (such as solid waste disposal permits, hazardous waste disposal permits, NPDES permits, wastewater permits, underground injection permits)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Registrations for underground and aboveground storage tanks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Material safety data sheets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Community-right-to-know plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plans, etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reports regarding hydrogeologic conditions on the property or surrounding area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hazardous waste generator notices or reports	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Underground storage tank registrations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Geotechnical studies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Risk Assessments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recorded Activity and Use Limitations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Environmental Cleanup Reports	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



ASTM E-1527-05, Section 10.9

Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property? **Yes** **No**

Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property? **Yes** **No**

Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products? **Yes** **No**

Do you have contact information for the prior owner of the property? **Yes** **No**

If yes, please provide information below:

Prior Owner's Name _____

Contact person _____

Address _____

Telephone _____

Do you have contact information for the prior occupant of the property? **Yes** **No**

If yes, please provide information below:

Prior Occupant's Name _____

Contact person _____

Address _____

Telephone _____

Do you have information on the prior facility manager of the property? Yes No
If yes, please provide information below:

Prior Facility Manager's Name _____

Contact person _____

Address _____

Telephone _____

This form was completed by:

Property Owner Operator Key Site Manager User EP

Name: UNIVERSITY OF NEW HAVEN

Address: 300 BOSTON POST ROAD

W. HAVEN CT 06516

Signature: *Louis Curcio* Date: 3/27/12
AVP FOR FACILITIES



**ASTM PRACTICE E 1527-05:
OWNER/OPERATOR/SITE-MANAGER QUESTIONNAIRE**

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Project Location/Address: 488 ORANGE AVENUE & 9 DAYTONA STREET
WEST HAVEN, CT

ASTM E-1527-05, Section 10.8

Are you aware if any of the documents listed below exists and if so, whether copies can and will be provided to the Consultant performing the ESA?

	Unaware	Document Exists	Copy will be provided
Environmental site assessment reports	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Environmental compliance audit reports	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Environmental permits (such as solid waste disposal permits, hazardous waste disposal permits, NPDES permits, wastewater permits, underground injection permits)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Registrations for underground and aboveground storage tanks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Material safety data sheets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Community-right-to-know plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plans, etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reports regarding hydrogeologic conditions on the property or surrounding area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hazardous waste generator notices or reports	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Underground storage tank registrations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Geotechnical studies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Risk Assessments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recorded Activity and Use Limitations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Environmental Cleanup Reports	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ESA'S ONLY ATTACHED

SEE ESA

SEE ESA



ASTM E-1527-05, Section 10.9

Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property? Yes No

Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property? Yes No

Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products? Yes No

Do you have contact information for the prior owner of the property? Yes No
If yes, please provide information below:

Prior Owner's Name R. B. T. EQUITIES, LLC

Contact person R. Eugene TORRENTI

Address 2805 Whitney AVENUE
HAMDEN, CT 06518

Telephone 203-281-7005 /email: r.torrenti@torrenti.law.com

University CLOSED on 11/3/2011

Do you have contact information for the prior occupant of the property? Yes No
If yes, please provide information below:

Prior Occupant's Name _____

Contact person _____

Address _____

Telephone _____

Do you have information on the prior facility manager of the property? Yes No

If yes, please provide information below:

Prior Facility Manager's Name _____

Contact person _____

Address _____

Telephone _____

This form was completed by:

Property Owner Operator Key Site Manager User EP

Name: GEORGE S. SYNODI, VICE President for FINANCE + Administration

Address: 300 Boston Post ROAD
WEST HAVEN, CT 06516

Signature:  Date: 3/13/2012



**ASTM PRACTICE E 1527-05:
OWNER/OPERATOR/SITE-MANAGER QUESTIONNAIRE**

Please complete the below form and return to
Langan Engineering and Environmental Services Inc.

Project Location/Address: 496 ORANGE AVENUE
WEST HAVEN, CT

ASTM E-1527-05, Section 10.8

Are you aware if any of the documents listed below exists and if so, whether copies can and will be provided to the Consultant performing the ESA?

	Unaware	Document Exists	Copy will be provided
Environmental site assessment reports <i>PHI/2 ESA</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Environmental compliance audit reports	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Environmental permits (such as solid waste disposal permits, hazardous waste disposal permits, NPDES permits, wastewater permits, underground injection permits)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Registrations for underground and aboveground storage tanks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Material safety data sheets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Community-right-to-know plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Safety plans; preparedness and prevention plans; spill prevention, countermeasure and control plans, etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reports regarding hydrogeologic conditions on the property or surrounding area	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Notices or other correspondence from any governmental agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens encumbering the property	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hazardous waste generator notices or reports	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Underground storage tank registrations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Geotechnical studies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Risk Assessments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Recorded Activity and Use Limitations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Environmental Cleanup Reports	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



ASTM E-1527-05, Section 10.9

Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property? Yes No

Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property? Yes No

Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products? Yes No

Do you have contact information for the prior owner of the property? Yes No
If yes, please provide information below:

Prior Owner's Name SHELDON + GERTRUDE HELFMAN

Contact person GERTRUDE HELFMAN

Address 572 TREAT LANE

ORANGE, CT 06477

Telephone (203) 934-8544

Do you have contact information for the prior occupant of the property? Yes No
If yes, please provide information below:

Prior Occupant's Name _____

Contact person _____

Address _____

Telephone _____

Do you have information on the prior facility manager of the property? Yes No

If yes, please provide information below:
Prior Facility Manager's Name _____

Contact person _____

Address _____

Telephone _____

This form was completed by:

Property Owner Operator Key Site Manager User EP

Name: GEORGE S. SYNOPI, VICE PRESIDENT for FINANCE
ADMINISTRATION

Address: 300 BOSTON POST ROAD

WEST HAVEN, CT 06516

Signature:  Date: 3/13/2012

APPENDIX C

Environmental Data Resources, Inc. Radius Report

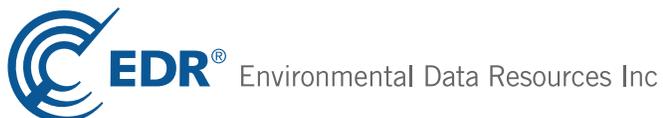


ESUMS

488 Boston Post Road
West Haven, CT 06516

Inquiry Number: 3557976.1s
March 26, 2013

The EDR Radius Map™ Report



440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

GeoCheck - Not Requested

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

488 BOSTON POST ROAD
WEST HAVEN, CT 06516

COORDINATES

Latitude (North): 41.2899000 - 41° 17' 23.64"
Longitude (West): 72.9660000 - 72° 57' 57.60"
Universal Transverse Mercator: Zone 18
UTM X (Meters): 670320.1
UTM Y (Meters): 4572722.5
Elevation: 136 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 41072-C8 NEW HAVEN, CT
Most Recent Revision: 1984

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2010
Source: USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
76 ISADORE ST. / 488 BOSTON POST 76 ISADORE ST. / 488 BOSTON POST RD WEST HAVEN, CT	SPILLS	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
FEDERAL FACILITY..... Federal Facility Site Information listing

Federal CERCLIS NFRAP site List

CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls
LUCIS..... Land Use Control Information System

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS..... Inventory of Hazardous Disposal Sites

EXECUTIVE SUMMARY

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... List of Landfills/Transfer Stations

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

AST..... Marine Terminals and Tank Information
INDIAN UST..... Underground Storage Tanks on Indian Land
FEMA UST..... Underground Storage Tank Listing

State and tribal institutional control / engineering control registries

ENG CONTROLS..... Engineering Controls Listing
AUL..... ELUR Sites

State and tribal voluntary cleanup sites

VCP..... Voluntary Remediation Sites
INDIAN VCP..... Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory
SWRCY..... Recycling Facilities
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
CDL..... Clandestine Drug Lab Listing
US HIST CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information
LIENS..... Environmental Liens Listing
CT PROPERTY..... Property Transfer Filings

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

Other Ascertainable Records

DOT OPS..... Incident and Accident Data
DOD..... Department of Defense Sites

EXECUTIVE SUMMARY

FUDS.....	Formerly Used Defense Sites
CONSENT.....	Superfund (CERCLA) Consent Decrees
ROD.....	Records Of Decision
UMTRA.....	Uranium Mill Tailings Sites
US MINES.....	Mines Master Index File
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS.....	Section 7 Tracking Systems
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System
RMP.....	Risk Management Plans
LWDS.....	Connecticut Leachate and Wastewater Discharge Sites
DRYCLEANERS.....	Drycleaner Facilities
ENF.....	Enforcement Case Listing
NPDES.....	Wastewater Permit Listing
AIRS.....	Permitted Air Sources Listing
INDIAN RESERV.....	Indian Reservations
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
2020 COR ACTION.....	2020 Corrective Action Program List
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
PRP.....	Potentially Responsible Parties
EPA WATCH LIST.....	EPA WATCH LIST
US FIN ASSUR.....	Financial Assurance Information
PCB TRANSFORMER.....	PCB Transformer Registration Database
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
Financial Assurance.....	Financial Assurance Information Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR US Hist Cleaners.....	EDR Exclusive Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 02/12/2013 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
AAMCO TRANSMISSIONS OF WEST HA	672 ORANGE AVE	WSW 1/8 - 1/4 (0.231 mi.)	C32	69

State- and tribal - equivalent CERCLIS

SDADB: Site Discovery and Assessment Database.

A review of the SDADB list, as provided by EDR, and dated 04/23/2010 has revealed that there are 3 SDADB sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NEW HAVEN, UNIVERSITY OF	300 ORANGE AVENUE	NE 1/4 - 1/2 (0.399 mi.)	E37	103
ACE CONSTRUCTION COMPANY	16 HAMILTON STREET	SW 1/4 - 1/2 (0.449 mi.)	39	125
WEST HAVEN CHRYSLER PLYMOUTH I	975 CAMPBELL AVE	SE 1/4 - 1/2 (0.475 mi.)	F42	131

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Protection's Leaking Underground Storage Tank List.

A review of the LUST list, as provided by EDR, and dated 01/31/2013 has revealed that there are 9 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
WHITE'S PLUMBING	589 ORANGE AVE	WNW 0 - 1/8 (0.043 mi.)	B11	19
STROBER CONNECTICUT BUILDING S	598 ORANGE AVENUE	W 0 - 1/8 (0.068 mi.)	B13	23
NUTMEG FARMS	668 ORANGE AVE.	WSW 1/8 - 1/4 (0.225 mi.)	C18	37
VOLVO	795 GRANGE AVE.	WSW 1/4 - 1/2 (0.397 mi.)	35	77

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SOLI'S GARAGE	965 FIRST AVENUE	ESE 1/4 - 1/2 (0.380 mi.)	33	71
ORCHARD HILLS CONDOMINIUMS	309 TERRACE AVENUE	SSW 1/4 - 1/2 (0.387 mi.)	34	74
UNIVERSITY OF NEW HAVEN	300 ORANGE AVE	NE 1/4 - 1/2 (0.399 mi.)	E36	80
Not reported	1239 CAMPBELL AVE	NE 1/4 - 1/2 (0.405 mi.)	E38	110
RESIDENTIAL NEIGHBORHOOD	COLLINS DRIVE	SSW 1/4 - 1/2 (0.470 mi.)	41	128

EXECUTIVE SUMMARY

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Protection's "Town Inventory" UST Listing.

A review of the UST list, as provided by EDR, and dated 01/15/2013 has revealed that there are 5 UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ALLIED, INC.	540 BOSTON POST RD	WNW 0 - 1/8 (0.013 mi.)	A9	14
TIRE COUNTRY	468 BOSTON POST RD	NNE 0 - 1/8 (0.033 mi.)	10	17
STROBER CONN. BUILDING SUPPLY	589 BOSTON POST RD	WNW 0 - 1/8 (0.043 mi.)	B12	22
NUTMEG FARMS, INC.	668 BOSTON POST RD	WSW 1/8 - 1/4 (0.225 mi.)	C17	35
MAY V. CARRIGAN MIDDLE SCHOOL	2 TETLOW ST	WNW 1/8 - 1/4 (0.231 mi.)	D26	60

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Inventory From Connecticut Brownfields Redevelopment Authority.

A review of the BROWNFIELDS list, as provided by EDR, and dated 01/17/2013 has revealed that there is 1 BROWNFIELDS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NUTMEG GAS	668-678 ORANGE AVENUE	WSW 1/8 - 1/4 (0.225 mi.)	C20	41

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 12/10/2012 has revealed that there is 1 US BROWNFIELDS site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FOREST THEATER	10 FOREST ROAD	NE 1/4 - 1/2 (0.461 mi.)	40	126

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or

EXECUTIVE SUMMARY

dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 02/12/2013 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>MAZON MOTORS LTD</i>	<i>559 ORANGE AVE</i>	<i>NW 0 - 1/8 (0.002 mi.)</i>	<i>A5</i>	<i>10</i>
<i>E O MANUFACTURING CO INC</i>	<i>4 HORTON PL</i>	<i>W 1/8 - 1/4 (0.135 mi.)</i>	<i>14</i>	<i>26</i>

MANIFEST: Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

A review of the MANIFEST list, as provided by EDR, and dated 02/18/2013 has revealed that there are 12 MANIFEST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MAZON MOTORS LTD	559 ORANGE AVE	NW 0 - 1/8 (0.002 mi.)	A3	8
MAZON MOTORS LTD	559 ORANGE AVE	NW 0 - 1/8 (0.002 mi.)	A4	9
R&L KRALL	540 ORANGE AVE.	WNW 0 - 1/8 (0.013 mi.)	A8	12
WEST HAVEN CITY OF	668 ORANGE AVENUE	WSW 1/8 - 1/4 (0.225 mi.)	C19	40
WEST HAVEN TOWN OF BD OF EDUCA	2 TETLOW STREET	WNW 1/8 - 1/4 (0.231 mi.)	D22	46
WEST HAVEN TOWN OF MAY V. CARR	2 TETLOW ST.	WNW 1/8 - 1/4 (0.231 mi.)	D23	48
WEST HAVEN PUBLIC SCHOOLS	2 TETLOW ST	WNW 1/8 - 1/4 (0.231 mi.)	D24	49
WEST HAVEN TOWN OF BD OF ED	2 TETLOW ST	WNW 1/8 - 1/4 (0.231 mi.)	D25	55
QQMCO TRANSM	672 ORANGE AVE.	WSW 1/8 - 1/4 (0.231 mi.)	C28	63
AAMCO TRANSPMISSION	672 ORANGE AVE	WSW 1/8 - 1/4 (0.231 mi.)	C29	65
AAMCO TRANSM	672 ORANGE AVE.	WSW 1/8 - 1/4 (0.231 mi.)	C30	68

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NOTRE DAME HIGH SCHOOL	24 RICARDO AVE.	ESE 1/8 - 1/4 (0.179 mi.)	15	33

CPCS: A list of Contaminated or Potentially Contaminated Sites within Connecticut. This list represents the "Hazardous Waste Facilities," as defined in Section 22a-134f of the Connecticut General Statutes (CGS). The list contains the following types of sites: Sites listed on the Inventory of Hazardous Waste Disposal Sites; Sites subject to the Property Transfer Act; Sites at which underground storage tanks are known to have leaked; Sites at which hazardous waste subject to the RCRA; Sites that are included in EPA's (CERCLIS); Sites that are the subject of an order issued by the Commissioner of DEP that requires investigation and remediation of a potential or known source of pollution; and Sites that have entered into one of the Department's Voluntary Remediation Programs.

A review of the CPCS list, as provided by EDR, and dated 06/04/2012 has revealed that there are 7 CPCS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>WHITE'S PLUMBING</i>	<i>589 ORANGE AVE</i>	<i>WNW 0 - 1/8 (0.043 mi.)</i>	<i>B11</i>	<i>19</i>
<i>NUTMEG FARMS</i>	<i>668 ORANGE AVE.</i>	<i>WSW 1/8 - 1/4 (0.225 mi.)</i>	<i>C18</i>	<i>37</i>
<i>VOLVO</i>	<i>795 GRANGE AVE.</i>	<i>WSW 1/4 - 1/2 (0.397 mi.)</i>	<i>35</i>	<i>77</i>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>ORCHARD HILLS CONDOMINIUMS</i>	<i>309 TERRACE AVENUE</i>	<i>SSW 1/4 - 1/2 (0.387 mi.)</i>	<i>34</i>	<i>74</i>
<i>UNIVERSITY OF NEW HAVEN</i>	<i>300 ORANGE AVE</i>	<i>NE 1/4 - 1/2 (0.399 mi.)</i>	<i>E36</i>	<i>80</i>

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
RESIDENTIAL NEIGHBORHOOD WEST HAVEN CHRYSLER-PLYMOUTH/A	COLLINS DRIVE 975 CAMPBELL AVENUE	SSW 1/4 - 1/2 (0.470 mi.) SE 1/4 - 1/2 (0.475 mi.)	41 F43	128 134

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 5 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

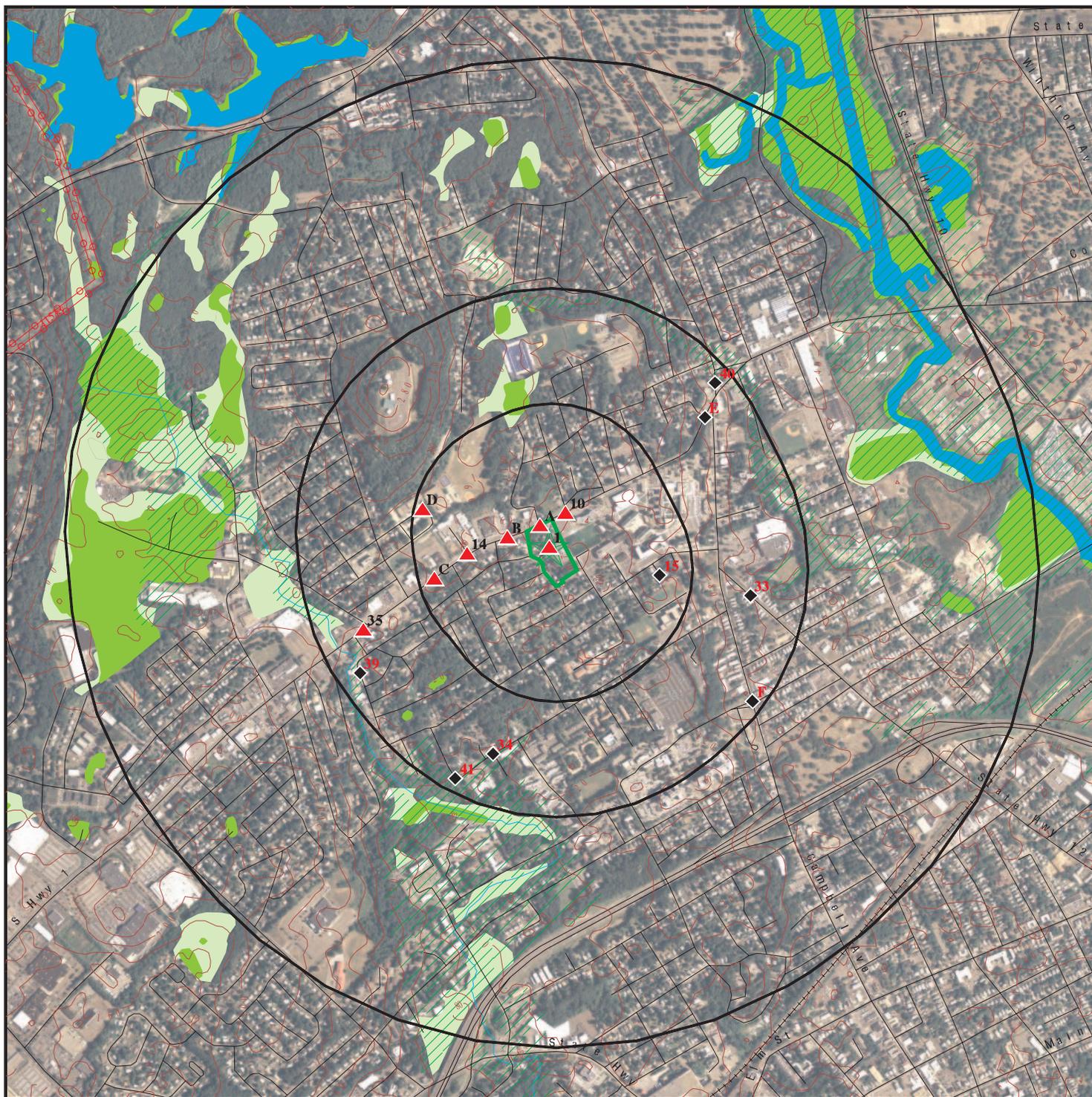
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	504 BOSTON POST RD	0 - 1/8 (0.000 mi.)	A2	8
Not reported	540 BOSTON POST RD	WNW 0 - 1/8 (0.013 mi.)	A6	12
Not reported	540 ORANGE AVE	WNW 0 - 1/8 (0.013 mi.)	A7	12
Not reported	703 BOSTON POST RD	WSW 1/8 - 1/4 (0.215 mi.)	C16	35
Not reported	672 ORANGE AVE	WSW 1/8 - 1/4 (0.231 mi.)	C31	69

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 10 records.

<u>Site Name</u>	<u>Database(s)</u>
CT STATE OF DOT	MANIFEST
THE NINTH SQUARE	MANIFEST
STATE OF CONNECTICUT-DOT	MANIFEST
TEXACO STATION	MANIFEST
BUDGET TRANSMISSION	MANIFEST
UNIVERSITY OF NEW HAVEN	MANIFEST
	SWF/LF
	SWF/LF
YALE UNIVERSITY	LUST, UST, SPILLS
PAINT MART	SDADB

OVERVIEW MAP - 3557976.1s



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Power transmission lines

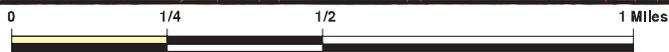
Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: ESUMS
 ADDRESS: 488 Boston Post Road
 West Haven CT 06516
 LAT/LONG: 41.2899 / -72.966

CLIENT: Langan Environmental Services
 CONTACT: Kyle Zalaski
 INQUIRY #: 3557976.1s
 DATE: March 26, 2013 4:35 pm

DETAIL MAP - 3557976.1s



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  0 1/16 1/8 1/4 Miles
-  Indian Reservations BIA
-  Oil & Gas pipelines from USGS
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory
-  State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

<p>SITE NAME: ESUMS ADDRESS: 488 Boston Post Road West Haven CT 06516 LAT/LONG: 41.2899 / -72.966</p>	<p>CLIENT: Langan Environmental Services CONTACT: Kyle Zalaski INQUIRY #: 3557976.1s DATE: March 26, 2013 4:36 pm</p>
---	--

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
CERCLIS	0.500		0	0	0	NR	NR	0
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS	1.000		0	0	0	0	NR	0
SDADB	0.500		0	0	3	NR	NR	3
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500		2	1	6	NR	NR	9
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
UST	0.250		3	2	NR	NR	NR	5

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	1	0	NR	NR	1
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	1	NR	NR	1
Local Lists of Landfill / Solid Waste Disposal Sites								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
LIENS	TP		NR	NR	NR	NR	NR	0
CT PROPERTY	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP	1	NR	NR	NR	NR	NR	1
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	1	NR	NR	NR	2
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
LWDS	0.250		0	0	NR	NR	NR	0
MANIFEST	0.250		3	11	NR	NR	NR	14
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
CPCS	0.500		1	1	5	NR	NR	7
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		3	2	NR	NR	NR	5
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

1

Target
Property

76 ISADORE ST. / 488 BOSTON POST RD
WEST HAVEN, CT

SPILLS S111285118
N/A

Actual:
136 ft.

SPILLS:

Year of Database: 2011
Case Number: 201105981
Who Took Spill: 212
Assigned To: 922
Report Date: 09/26/2011
Report Time: 26 15:14:10
Date Release: 09/26/2011
Time Responded: Not reported
Reported By: 117
Phone: 203 9331616
Representing: West Haven Dispatch
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: #2 FUEL OIL
Qty: 5 (Gallons)
Emergency Measure: Heating Oil, FD responded to dry stream bed with orange substance in it, then backtracked it to possible source of an inground fuel tank with fill pipe sheared off and full of water. FD on-scene, investigating
Water Body: Dry Streambed
Discharger: ATTORNEY EUGENE GORRENTI / TOM GORRENTI
Telephone: 203 5304631
Responsible Party: Not reported
RP Address 1: 488 BOSTON POST ROAD
RP City,St,Zip: WEST HAVEN, CT 06516
Historic: False
Waterbody: False
Time Stamp: 2011-10-26 09:02:04
Sr Inspector: JOHNSTON, ALEXANDER
At Inspctor: Aceto, John
User Stamp: mgranill
Comments: 934 notified, assigned to 922.
Action: Contracted
Other Action: Not reported
Action: Other
Other Action: MCVAC
Action: Investigated
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: LOCAL FIRE DEPARTMENT
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Inground Tank Failure
Other Cause: Not reported
Media ID: Surface Water
Other Media: Not reported
Media ID: Ground Surface

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S111285118

Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Stream/Brook
Other Wtrbody: Not reported

A2

EDR US Hist Auto Stat 1015526683

< 1/8
1 ft.

504 BOSTON POST RD
WEST HAVEN, CT 06516

N/A

Site 1 of 8 in cluster A

Relative:
Higher

EDR Historical Auto Stations:

Name: R & L AUTO SERVICE
Year: 2007

Actual:
154 ft.

Address: 504 BOSTON POST RD

A3

MANIFEST S109720623

NW
< 1/8
0.002 mi.
10 ft.

MAZON MOTORS LTD
559 ORANGE AVE
WEST HAVEN, CT 06516

N/A

Site 2 of 8 in cluster A

Relative:
Higher

CT MANIFEST:

Waste:

Manifest No: CTA0068366
Waste Occurrence: 1
UNNA: 1263
Hazard Class: FLAMMABLE
US Dot Description: WASTE PAINT RELATED MATERIAL LIQUID
No of Containers: 001
Container Type: TT
Quantity: 23
Weight/Volume: G
Additional Description: Y
Handling Code: T01
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Actual:
158 ft.

Waste CD:

Manifest No: CTA0068366
Waste Occurrence: 1
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:

Year: 1985
Manifest ID: CTA0068366
TSDf EPA ID: CTD072138969
TSDf Name: ENVIRONMENTAL WASTE RESOURCES INC
TSDf Address: 130 FREIGHT ST

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MAZON MOTORS LTD (Continued)

S109720623

TSDf City,St,Zip: WATERBURY, CT 06702
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 8/12/1985
Transporter EPA ID: NJD980787147
Transporter Name: WELLINGTON, LTD.
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CT\$000016490
Generator Phone: 2039344700
Generator Mailing Addr: 559 ORANGE AVE
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Yes
Discrepancies: No
Date Shipped: 8/12/1985
Date Received: 8/14/1985
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

A4 MAZON MOTORS LTD
NW 559 ORANGE AVE
< 1/8 WEST HAVEN, CT 06516
0.002 mi.
10 ft. Site 3 of 8 in cluster A

MANIFEST S109726308
N/A

Relative:
Higher

CT MANIFEST:

Waste:

Actual:
158 ft.

Manifest No: CTB0051057
Waste Occurrence: 1
UNNA: 1263
Hazard Class: FLAMMABLE
US Dot Description: WASTE PAINT-RELATED MATERIAL
No of Containers: 001
Container Type: TT
Quantity: 28
Weight/Volume: G
Additional Description: Y
Handling Code: T01
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:

Manifest No: CTB0051057
Waste Occurrence: 1
EPA Waste Code: D001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MAZON MOTORS LTD (Continued)

S109726308

Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:

Year: 1987
Manifest ID: CTB0051057
TSDf EPA ID: CTD072138969
TSDf Name: ENVIRONMENTAL WASTE RESOURCES INC
TSDf Address: 130 FREIGHT ST
TSDf City,St,Zip: WATERBURY, CT 06702
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 1/12/1987
Transporter EPA ID: NJD980787147
Transporter Name: WELLINGTON LTD
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTD018875344
Generator Phone: 2035289111
Generator Mailing Addr: 559 ORANGE AVE
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Yes
Discrepancies: No
Date Shipped: 1/12/1987
Date Received: 1/13/1987
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

A5 MAZON MOTORS LTD
NW 559 ORANGE AVE
< 1/8 WEST HAVEN, CT 06516
0.002 mi.
10 ft. Site 4 of 8 in cluster A

RCRA NonGen / NLR 1000337068
FINDS CTD018875344

Relative: RCRA NonGen / NLR:
Higher Date form received by agency: 10/18/1985
Facility name: MAZON MOTORS LTD
Actual: Facility address: 559 ORANGE AVE
158 ft. WEST HAVEN, CT 06516
EPA ID: CTD018875344
Mailing address: ORANGE AVE
WEST HAVEN, CT 06516
Contact: GEORGE AQUILA
Contact address: 559 ORANGE AVE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MAZON MOTORS LTD (Continued)

1000337068

WEST HAVEN, CT 06516
Contact country: US
Contact telephone: (203) 934-4700
Contact email: Not reported
EPA Region: 01
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: Not reported
Owner/operator address: OWNERSTREET
OWNERCITY, CT 99999
Owner/operator country: Not reported
Owner/operator telephone: (203) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

FINDS:

Registry ID: 110003013587

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MAZON MOTORS LTD (Continued)

1000337068

and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

A6
WNW
< 1/8
0.013 mi.
71 ft.

540 BOSTON POST RD
WEST HAVEN, CT 06516

Site 5 of 8 in cluster A

EDR US Hist Auto Stat 1015545864
N/A

Relative:
Higher

EDR Historical Auto Stations:

Name: R & L AUTO SERVICE INC
Year: 2008
Address: 540 BOSTON POST RD

Name: R & L AUTO SERVICE INC
Year: 2009
Address: 540 BOSTON POST RD

Name: SUNOCO
Year: 2012
Address: 540 BOSTON POST RD

Actual:
159 ft.

A7
WNW
< 1/8
0.013 mi.
71 ft.

540 ORANGE AVE
WEST HAVEN, CT 06516

Site 6 of 8 in cluster A

EDR US Hist Auto Stat 1015545948
N/A

Relative:
Higher

EDR Historical Auto Stations:

Name: R & L AUTO SERVICE INCORPORATED
Year: 1999
Address: 540 ORANGE AVE

Name: R & L AUTO SERVICE INCORPORATED
Year: 2000
Address: 540 ORANGE AVE

Name: R & L AUTO SERVICE INC
Year: 2001
Address: 540 ORANGE AVE

Actual:
159 ft.

A8
WNW
< 1/8
0.013 mi.
71 ft.

R&L KRALL
540 ORANGE AVE.
WEST HAVEN, CT 06516

Site 7 of 8 in cluster A

MANIFEST S109753702
N/A

Relative:
Higher

CT MANIFEST:

Waste:
Manifest No: CTF1200536
Waste Occurrence: 1
UNNA: 1993

Actual:
159 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

R&L KRALL (Continued)

S109753702

Hazard Class: 3
US Dot Description: FLAMMABLE LIQUID N.O.S.
No of Containers: 001
Container Type: TT
Quantity: 84
Weight/Volume: G
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 5/26/2004
DEO Who Last Modified Record: IG

Waste CD:

Manifest No: CTF1200536
Waste Occurrence: 1
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 5/26/2004
DEO Who Last Modified Record: IG

Detail:

Year: 2003
Manifest ID: CTF1200536
TSDf EPA ID: CTD002593887
TSDf Name: BRIDGEPORT UNITED RECYCLE (FORMERLY HITCHCOCK GAS)
TSDf Address: 50 CROSS STREET
TSDf City,St,Zip: BRIDGEPORT, CT 06608
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 11/18/2003
Transporter EPA ID: CTD089620405
Transporter Name: ENVIROSHIELD INC
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTP000027697
Generator Phone: Not reported
Generator Mailing Addr: 540 ORANGE AVE. WEST HAVEN
Generator Mailing Town: Not reported
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: No
Date Shipped: 11/18/2003
Date Received: 11/18/2003
Last modified date: 5/26/2004
Last modified by: IG
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A9
WNW
< 1/8
0.013 mi.
71 ft.

ALLIED, INC.
540 BOSTON POST RD
WEST HAVEN, CT 06516

Site 8 of 8 in cluster A

UST U002025105
N/A

Relative:
Higher

UST:

Actual:
159 ft.

Facility Id: 7889
Alt. Facility ID: 156-7889
Latitude: Not reported
Longitude: Not reported
Owner: 540 Orange Ave, LLC
Owner Address: 540 BOSTON POST RD
Owner Address 2: Not reported
Owner City,St,Zip: WEST HAVEN, CT 065161922

Tank ID: 7889-1
Compartment ID: 7889-1
Compartment Num: 1
Alt. Tank ID: A1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 6000
Substance: Gasoline
Date Installed: 06/01/1972
Date Last Used: Not reported
Closure Status: Tank was Removed From Ground
Pipe Material: Bare or Galvanized Steel
Pipe Mode Description: Not reported
Spill Installed: Spill Bucket
Overfill Installed: Not reported

Tank ID: 7889-10
Compartment ID: 7889-10
Compartment Num: 1
Alt. Tank ID: C2R1
Tank Status: Currently In Use
Tank Material: Coated & Cathodically Protected Steel (sti-P3)
Secondary Material: Not reported
Capacity: 6000
Substance: Gasoline
Date Installed: 01/01/1989
Date Last Used: Not reported
Closure Status: Not reported
Pipe Material: Rigid Fiberglass Reinforced Plastic
Pipe Mode Description: Not reported
Spill Installed: Spill Bucket
Overfill Installed: Ball Float Device

Tank ID: 7889-2
Compartment ID: 7889-2
Compartment Num: 1
Alt. Tank ID: B1
Tank Status: Currently In Use
Tank Material: Coated & Cathodically Protected Steel (sti-P3)
Secondary Material: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ALLIED, INC. (Continued)

U002025105

Capacity: 3000
Substance: Gasoline
Date Installed: 05/01/1983
Date Last Used: Not reported
Closure Status: Not reported
Pipe Material: Rigid Fiberglass Reinforced Plastic
Pipe Mode Description: Not reported
Spill Installed: Spill Bucket
Overfill Installed: Ball Float Device

Tank ID: 7889-3
Compartment ID: 7889-3
Compartment Num: 1
Alt. Tank ID: C1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 6000
Substance: Gasoline
Date Installed: 06/01/1972
Date Last Used: Not reported
Closure Status: Tank was Removed From Ground
Pipe Material: Bare or Galvanized Steel
Pipe Mode Description: Not reported
Spill Installed: Spill Bucket
Overfill Installed: Not reported

Tank ID: 7889-4
Compartment ID: 7889-4
Compartment Num: 1
Alt. Tank ID: C2
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 3000
Substance: Gasoline
Date Installed: 06/01/1972
Date Last Used: Not reported
Closure Status: Tank was Removed From Ground
Pipe Material: Bare or Galvanized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7889-5
Compartment ID: 7889-5
Compartment Num: 1
Alt. Tank ID: D1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 3000
Substance: Diesel
Date Installed: 06/01/1972

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ALLIED, INC. (Continued)

U002025105

Date Last Used: Not reported
Closure Status: Tank was Removed From Ground
Pipe Material: Bare or Galvanized Steel
Pipe Mode Description: Not reported
Spill Installed: Spill Bucket
Overfill Installed: Not reported

Tank ID: 7889-6
Compartment ID: 7889-6
Compartment Num: 1
Alt. Tank ID: E1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 275
Substance: Used Oil
Date Installed: 06/01/1972
Date Last Used: Not reported
Closure Status: Tank was Removed From Ground
Pipe Material: Not reported
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7889-7
Compartment ID: 7889-7
Compartment Num: 1
Alt. Tank ID: F1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 550
Substance: Used Oil
Date Installed: 06/01/1972
Date Last Used: Not reported
Closure Status: Tank was Removed From Ground
Pipe Material: Not reported
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7889-8
Compartment ID: 7889-8
Compartment Num: 1
Alt. Tank ID: A1R1
Tank Status: Currently In Use
Tank Material: Coated & Cathodically Protected Steel (sti-P3)
Secondary Material: Not reported
Capacity: 6000
Substance: Gasoline
Date Installed: 01/01/1989
Date Last Used: Not reported
Closure Status: Not reported
Pipe Material: Rigid Fiberglass Reinforced Plastic

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ALLIED, INC. (Continued)

U002025105

Pipe Mode Description: Not reported
Spill Installed: Spill Bucket
Overfill Installed: Ball Float Device

Tank ID: 7889-9
Compartment ID: 7889-9
Compartment Num: 1
Alt. Tank ID: C1R1
Tank Status: Currently In Use
Tank Material: Coated & Cathodically Protected Steel (sti-P3)
Secondary Material: Not reported
Capacity: 6000
Substance: Gasoline
Date Installed: 01/01/1989
Date Last Used: Not reported
Closure Status: Not reported
Pipe Material: Rigid Fiberglass Reinforced Plastic
Pipe Mode Description: Not reported
Spill Installed: Spill Bucket
Overfill Installed: Ball Float Device

10
NNE
< 1/8
0.033 mi.
174 ft.

TIRE COUNTRY
468 BOSTON POST RD
WEST HAVEN, CT 06516

UST U003731027
N/A

Relative:
Higher

UST:
Facility Id: 12063
Alt. Facility ID: 156-12063
Latitude: Not reported
Longitude: Not reported
Owner: MICHAEL BELLEMARE
Owner Address: 468 BOSTON POST RD
Owner Address 2: Not reported
Owner City,St,Zip: WEST HAVEN, CT 065161933

Actual:
141 ft.

Tank ID: 12063-1
Compartment ID: 12063-1
Compartment Num: 1
Alt. Tank ID: A1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 3000
Substance: Gasoline
Date Installed: 01/01/1969
Date Last Used: 09/01/1993
Closure Status: Tank was Removed From Ground
Pipe Material: Other (Specify)
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 12063-2
Compartment ID: 12063-2

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TIRE COUNTRY (Continued)

U003731027

Compartment Num: 1
Alt. Tank ID: B1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 4000
Substance: Gasoline
Date Installed: 01/01/1969
Date Last Used: 09/01/1993
Closure Status: Tank was Removed From Ground
Pipe Material: Other (Specify)
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 12063-3
Compartment ID: 12063-3
Compartment Num: 1
Alt. Tank ID: C1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 4000
Substance: Gasoline
Date Installed: 01/01/1969
Date Last Used: 09/01/1993
Closure Status: Tank was Removed From Ground
Pipe Material: Other (Specify)
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 12063-4
Compartment ID: 12063-4
Compartment Num: 1
Alt. Tank ID: D1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 550
Substance: Used Oil
Date Installed: 01/01/1950
Date Last Used: 09/01/1993
Closure Status: Tank was Removed From Ground
Pipe Material: Other (Specify)
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 12063-5
Compartment ID: 12063-5
Compartment Num: 1
Alt. Tank ID: E1
Tank Status: Permanently Closed

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

TIRE COUNTRY (Continued)

U003731027

Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 550
Substance: Heating Oil
Date Installed: 01/01/1950
Date Last Used: 09/01/1993
Closure Status: Tank was Removed From Ground
Pipe Material: Other (Specify)
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

**B11
WNW
< 1/8
0.043 mi.
227 ft.**

**WHITE'S PLUMBING
589 ORANGE AVE
WEST HAVEN, CT 06516**

**LUST S105840662
CPCS N/A**

Site 1 of 3 in cluster B

**Relative:
Higher**

LUST:

**Actual:
162 ft.**

LUST Id: 0
UST Facility Id: Not reported
LUST Case Id: 45510
Lust Status: Lust Completed
Processing Status: Not reported
EPA Reportable: False
Motor Fuel: False
Diesel: False
Gasoline: False
Other: True
Other Release: Not reported
No Release: False
Leak: False
Tank: False
Piping: False
Overfill: False
Removal: False
Incident Date: 1997-02-07 00:00:00
Entry Date: Not reported
Site Case Id: 9700668
UST Site Id: Not reported
Cost Recovery Spill Case #: Not reported
Old SITS Number: Not reported
Case Log Id: Not reported
Monthly Report Id: 0
UST Owner Id: Not reported
LUST Owner Id: Not reported
UST Event Id: 4728
Contact Info: Not reported
Contact EMail: Not reported
Site Contact City,St,Zip: UNKNOWN
2nd Contact: Not reported
2nd Contact EMail: Not reported
2nd Contact Address: Not reported
2nd Contact City,St,Zip: UNKNOWN
2nd Contact Address 2: Not reported
2nd Contact City 2: Not reported
2nd Contact Phone Number: Not reported
2nd Contact Fax Number: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WHITE'S PLUMBING (Continued)

S105840662

2nd Contact Type: Not reported
Facility City Num: 156
Site Contact: Not reported
Site Contact Address: Not reported
Site Contact Add 2: Not reported
Site Contact City 2: Not reported
Site Contact Phone: Not reported
Site Contact Fax: Not reported
Site Contact Type: Not reported
Department Contact 1: Not reported
Department Contact 2: Not reported
Referral Source: Not reported
Offsite Source: False
Date Referred: Not reported
Emergency: False
Private Heating Fuel: False
Commercial Heating Fuel: True
Commercial HF < 2100 Gal.: False
Commercial HF > 2100 Gal.: False
Commercial HF - Size Unk: True
No LUST Site: False
Cost Recvry Prgm Candidate: False
OCSR Complete: True
Follow Up Flag: False
Alternate Water Supply: False
Relocation: False
Responsible Party: False
Responsible EMail: Not reported
Resp Party Name: Not reported
Resp Party Address: Not reported
Resp Party City,St,Zip: Not reported
Resp Party Town Number: UNKNOWN
Resp Party Phone: Not reported
Resp Party Fax: Not reported
Resp Party Name 2: Not reported
Resp Party Address 2: Not reported
Resp Party Phone 2: Not reported
Investigator Id: 35
Follow Update: Not reported
Area Lextent: Not reported
Annual Precipitation: Not reported
Affected Population: Not reported
Population Setting: Not reported
Ground Water Direction: Not reported
Ground Water Gradient: Not reported
Hydro Basin: Not reported
Drastic: Not reported
Geo Setting: Not reported
Ground Water Classification: Not reported
Receptor: Not reported
Ground Water Flow Direction: Not reported
Ground Water Depth: Not reported
Areas Of Concern: Not reported
Free Product Inches: Not reported
Fund Date: Not reported
Fund Planned: No
Fund Obligated: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WHITE'S PLUMBING (Continued)

S105840662

Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	#2 oil, , na
Work Performed:	Not reported

CPCS:

Site Type:	LUST
Lust Status:	Pending

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WHITE'S PLUMBING (Continued)

S105840662

PTP Form: Not reported
Program: Not reported
Comments: Not reported
Site Type Definition: Leaking Underground Storage Tanks Pending

**B12
WNW
< 1/8
0.043 mi.
227 ft.**

**STROBER CONN. BUILDING SUPPLY
589 BOSTON POST RD
WEST HAVEN, CT 06516**

**UST U002176786
N/A**

Site 2 of 3 in cluster B

**Relative:
Higher**

UST:

Facility Id: 9968
Alt. Facility ID: 156-9968
Latitude: Not reported
Longitude: Not reported
Owner: SCONN REALTY
Owner Address: 518 HAMILTON AVE
Owner Address 2: Not reported
Owner City,St,Zip: BROOKLYN, NY 112510001

**Actual:
162 ft.**

Tank ID: 9968-1
Compartment ID: 9968-1
Compartment Num: 1
Alt. Tank ID: A1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 4000
Substance: Used Oil
Date Installed: 01/01/1950
Date Last Used: 01/01/1985
Closure Status: Tank was Removed From Ground
Pipe Material: Not reported
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 9968-2
Compartment ID: 9968-2
Compartment Num: 1
Alt. Tank ID: B1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 4000
Substance: Used Oil
Date Installed: 01/01/1950
Date Last Used: 01/01/1985
Closure Status: Tank was Removed From Ground
Pipe Material: Not reported
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 9968-3

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STROBER CONN. BUILDING SUPPLY (Continued)

U002176786

Compartment ID: 9968-3
Compartment Num: 1
Alt. Tank ID: C1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 4000
Substance: Used Oil
Date Installed: 01/01/1950
Date Last Used: 01/01/1985
Closure Status: Tank was Removed From Ground
Pipe Material: Not reported
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 9968-4
Compartment ID: 9968-4
Compartment Num: 1
Alt. Tank ID: D1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 2000
Substance: Used Oil
Date Installed: 01/01/1950
Date Last Used: 01/01/1985
Closure Status: Tank was Removed From Ground
Pipe Material: Not reported
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

B13
West
< 1/8
0.068 mi.
360 ft.

STROBER CONNECTICUT BUILDING SUPPLY (FORMER WHITE PLUMBING P
598 ORANGE AVENUE
WEST HAVEN, CT 06516
Site 3 of 3 in cluster B

LUST S111119743
N/A

Relative:
Higher

LUST:
LUST Id: 0
UST Facility Id: 1271
LUST Case Id: 59961
Lust Status: Investigation
Processing Status: Not reported
EPA Reportable: True
Motor Fuel: False
Diesel: False
Gasoline: False
Other: False
Other Release: Not reported
No Release: False
Leak: False
Tank: False
Piping: False
Overfill: False
Removal: False

Actual:
169 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STROBER CONNECTICUT BUILDING SUPPLY (FORMER WHITE PLUMBING P (Continued)

S111119743

Incident Date: 2001-04-20 00:00:00
Entry Date: 2009-05-29 00:00:00
Site Case Id: 200105421
UST Site Id: 0
Cost Recovery Spill Case #: 0
Old SITS Number: 0
Case Log Id: 0
Monthly Report Id: 0
UST Owner Id: 9055
LUST Owner Id: Not reported
UST Event Id: 0
Contact Info: Not reported
Contact EMail: Not reported
Site Contact City,St,Zip: UNKNOWN
2nd Contact: Not reported
2nd Contact EMail: Not reported
2nd Contact Address: Not reported
2nd Contact City,St,Zip: UNKNOWN
2nd Contact Address 2: Not reported
2nd Contact City 2: Not reported
2nd Contact Phone Number: Not reported
2nd Contact Fax Number: Not reported
2nd Contact Type: Not reported
Facility City Num: 156
Site Contact: Not reported
Site Contact Address: Not reported
Site Contact Add 2: Not reported
Site Contact City 2: Not reported
Site Contact Phone: Not reported
Site Contact Fax: Not reported
Site Contact Type: Not reported
Department Contact 1: Not reported
Department Contact 2: Not reported
Referral Source: Not reported
Offsite Source: False
Date Referred: Not reported
Emergency: False
Private Heating Fuel: False
Commercial Heating Fuel: False
Commercial HF < 2100 Gal.: False
Commercial HF > 2100 Gal.: False
Commercial HF - Size Unk: False
No LUST Site: False
Cost Recvry Prgm Candidate: False
OCSR Complete: False
Follow Up Flag: False
Alternate Water Supply: False
Relocation: False
Responsible Party: False
Responsible EMail: Not reported
Resp Party Name: Stephen's Pipe and Steel Connecticut
Resp Party Address: 776 North Main Street
Resp Party City,St,Zip: Manchester, CT 06042
Resp Party Town Number: 77
Resp Party Phone: 8608120265
Resp Party Fax: Not reported
Resp Party Name 2: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STROBER CONNECTICUT BUILDING SUPPLY (FORMER WHITE PLUMBING P (Continued)

S111119743

Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	0
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	0
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlaid:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	True
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

STROBER CONNECTICUT BUILDING SUPPLY (FORMER WHITE PLUMBING P (Continued))

S111119743

Rem Sys Monitoring Rpt: False
Qrtly Gwater Mon Rpts: False
Closure Req Rpt: False
DEP Closure Letter: False
Referred To: Not reported
No Wells: 0
Lph Wells: 0
User Stamp: Allison Forrest/AForrest
Date Stamp: 2011-11-21 00:00:00
Correspondence: Not reported
Environmental Impact: Not reported
FollowUp: Not reported
GW Comments: Not reported
Location Desc: Not reported
NOV Comments: Not reported
Release Desc: Not reported
Running Comments: Open LUST Cases: 2001-05421
Work Performed: Not reported

14
West
1/8-1/4
0.135 mi.
714 ft.

E O MANUFACTURING CO INC
4 HORTON PL
WEST HAVEN, CT 06516

RCRA NonGen / NLR **1001023332**
FINDS **CT5000001859**
EPA WATCH LIST

Relative:
Higher

RCRA NonGen / NLR:
Date form received by agency: 02/01/1989
Facility name: E O MANUFACTURING CO INC
Facility address: 4 HORTON PL
WEST HAVEN, CT 06516
EPA ID: CT5000001859
Mailing address: HORTON PL
WEST HAVEN, CT 06516
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 01
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Actual:
161 ft.

Owner/Operator Summary:
Owner/operator name: E & O MANUFACTURING CO
Owner/operator address: 4 HORTON PL
WEST HAVEN, CT 06516
Owner/operator country: Not reported
Owner/operator telephone: (203) 932-5981
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

E O MANUFACTURING CO INC (Continued)

1001023332

Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Facility Has Received Notices of Violations:

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 03/10/1995
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: UNILATERAL ORDER, NO PENALTIES
Enforcement action date: 01/24/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 03/10/1995
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 03/10/1995
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: STIPULATED JUDICIAL ORDER, WITH PENALTY
Enforcement action date: 04/08/2003
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 15000
Paid penalty amount: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

E O MANUFACTURING CO INC (Continued)

1001023332

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 03/10/1995
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: REFERRAL TO ATTORNEY GENERAL
Enforcement action date: 10/04/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 03/10/1995
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 12/06/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: REFERRAL TO ATTORNEY GENERAL
Enforcement action date: 10/04/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

E O MANUFACTURING CO INC (Continued)

1001023332

Area of violation: Generators - General
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: REFERRAL TO ATTORNEY GENERAL
Enforcement action date: 10/04/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 12/06/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: INITIAL CIVIL JUDICIAL ACTION FOR COMPLIANCE AND/OR MONETARY PENALTY
Enforcement action date: 12/06/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: UNILATERAL ORDER, NO PENALTIES
Enforcement action date: 01/24/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

E O MANUFACTURING CO INC (Continued)

1001023332

Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/19/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: UNILATERAL ORDER, NO PENALTIES
Enforcement action date: 01/24/2000
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: STIPULATED JUDICIAL ORDER, WITH PENALTY
Enforcement action date: 04/08/2003
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 15000
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: STIPULATED JUDICIAL ORDER, WITH PENALTY
Enforcement action date: 04/08/2003
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 15000
Paid penalty amount: Not reported

Regulation violated: FR - 262.11
Area of violation: Generators - General
Date violation determined: 02/01/1989

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

E O MANUFACTURING CO INC (Continued)

1001023332

Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.34(a)(2)
Area of violation: Generators - Pre-transport
Date violation determined: 02/01/1989
Date achieved compliance: Not reported
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/19/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 11/08/2002
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 01/24/2000
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/03/1998
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - Pre-transport
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/03/1998
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/10/1997
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/10/1997

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

E O MANUFACTURING CO INC (Continued)

1001023332

Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: Generators - Pre-transport
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/10/1995
Evaluation: FOLLOW-UP INSPECTION
Area of violation: Generators - Pre-transport
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/10/1995
Evaluation: FOLLOW-UP INSPECTION
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/01/1989
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 02/01/1989
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - Pre-transport
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110003005603

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

EPA WATCH LIST:

Facility ID: CT5000001859
Program: RCRA Facilities
List date: April 2012 Watch List

Facility ID: CT5000001859
Program: RCRA Facilities
List date: May 2012 Watch List

Facility ID: CT5000001859
Program: RCRA Facilities
List date: June 2012 Watch List

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

15
ESE
1/8-1/4
0.179 mi.
945 ft.

NOTRE DAME HIGH SCHOOL
24 RICARDO AVE.
WEST HAVEN, CT 06516

MANIFEST S109753037
N/A

Relative:
Lower

CT MANIFEST:

Actual:
115 ft.

Waste:

Manifest No: CTF1004649
Waste Occurrence: 1
UNNA: 3264
Hazard Class: 8
US Dot Description: corrosive liquid acidic, inorganic nos
No of Containers: 001
Container Type: DF
Quantity: 100
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Manifest No: CTF1004649
Waste Occurrence: 3
UNNA: 3265
Hazard Class: 8
US Dot Description: CORROSIVE LIQUID, ACIDIC, ORGANIC NOS
No of Containers: 001
Container Type: DF
Quantity: 20
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Manifest No: CTF1004649
Waste Occurrence: 2
UNNA: 1849
Hazard Class: 8
US Dot Description: WASTE SODIUM SULFIDE-HYDRATED
No of Containers: 001
Container Type: DF
Quantity: 10
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:

Manifest No: CTF1004649
Waste Occurrence: 3
EPA Waste Code: D002
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NOTRE DAME HIGH SCHOOL (Continued)

S109753037

Manifest No: CTF1004649
Waste Occurrence: 1
EPA Waste Code: D002
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Manifest No: CTF1004649
Waste Occurrence: 2
EPA Waste Code: D003
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:

Year: 2002
Manifest ID: CTF1004649
TSDf EPA ID: RID040098352
TSDf Name: NORTHLAND ENVIRONMENTAL, INC (STABLEX, RI)
TSDf Address: 252 - 275 ALLENS AVE
TSDf City,St,Zip: PROVIDENCE, RI 02905
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 11/20/2002
Transporter EPA ID: CTD018811802
Transporter Name: ENVIRONMENTAL SERV MITCHELL ASSOC
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTP000026932
Generator Phone: Not reported
Generator Mailing Addr: 24 RICARDO AVE. WEST HAVEN
Generator Mailing Town: Not reported
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: Yes
Date Shipped: 11/20/2002
Date Received: 11/21/2002
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

C16
WSW **703 BOSTON POST RD**
1/8-1/4 **WEST HAVEN, CT 06516**
0.215 mi.
1135 ft. **Site 1 of 11 in cluster C**

EDR US Hist Auto Stat **1015607319**
N/A

Relative: EDR Historical Auto Stations:
Higher Name: GMAN AUTOMOTIVE
 Year: 2006
Actual: Address: 703 BOSTON POST RD
166 ft.

C17 **NUTMEG FARMS, INC.**
WSW **668 BOSTON POST RD**
1/8-1/4 **WEST HAVEN, CT 06516**
0.225 mi.
1187 ft. **Site 2 of 11 in cluster C**

UST **U002025034**
N/A

Relative: UST:
Higher Facility Id: 7811
 Alt. Facility ID: 156-7811
Actual: Latitude: Not reported
164 ft. Longitude: Not reported
 Owner: NUTMEG WEST HAVEN, INC.
 Owner Address: 668 BOSTON POST RD
 Owner Address 2: Not reported
 Owner City,St,Zip: WEST HAVEN, CT 065161901

Tank ID: 7811-1
 Compartment ID: 7811-1
 Compartment Num: 1
 Alt. Tank ID: 1
Tank Status: **Permanently Closed**
 Tank Material: Asphalt Coated or Bare Steel
 Secondary Material: Not reported
 Capacity: 10000
 Substance: Gasoline
 Date Installed: 08/01/1980
 Date Last Used: 03/02/2010
Closure Status: **Tank was Removed From Ground**
 Pipe Material: Bare or Galvanized Steel
 Pipe Mode Description: Not reported
 Spill Installed: Not reported
 Overfill Installed: Not reported

Tank ID: 7811-2
 Compartment ID: 7811-2
 Compartment Num: 1
 Alt. Tank ID: 2
Tank Status: **Permanently Closed**
 Tank Material: Asphalt Coated or Bare Steel
 Secondary Material: Not reported
 Capacity: 10000
 Substance: Gasoline
 Date Installed: 08/01/1980
 Date Last Used: 03/02/2010
Closure Status: **Tank was Removed From Ground**
 Pipe Material: Bare or Galvanized Steel
 Pipe Mode Description: Not reported
 Spill Installed: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NUTMEG FARMS, INC. (Continued)

U002025034

Overfill Installed: Not reported

Tank ID: 7811-3

Compartment ID: 7811-3

Compartment Num: 1

Alt. Tank ID: 3

Tank Status: Permanently Closed

Tank Material: Asphalt Coated or Bare Steel

Secondary Material: Not reported

Capacity: 8000

Substance: Gasoline

Date Installed: 08/01/1980

Date Last Used: 03/02/2010

Closure Status: Tank was Removed From Ground

Pipe Material: Bare or Galvanized Steel

Pipe Mode Description: Not reported

Spill Installed: Not reported

Overfill Installed: Not reported

Tank ID: 7811-4

Compartment ID: 7811-4

Compartment Num: 1

Alt. Tank ID: 4

Tank Status: Permanently Closed

Tank Material: Asphalt Coated or Bare Steel

Secondary Material: Not reported

Capacity: 3000

Substance: Gasoline

Date Installed: 08/01/1980

Date Last Used: 03/02/2010

Closure Status: Tank was Removed From Ground

Pipe Material: Bare or Galvanized Steel

Pipe Mode Description: Not reported

Spill Installed: Not reported

Overfill Installed: Not reported

Tank ID: 7811-5

Compartment ID: 7811-5

Compartment Num: 1

Alt. Tank ID: 5

Tank Status: Permanently Closed

Tank Material: Asphalt Coated or Bare Steel

Secondary Material: Not reported

Capacity: 3000

Substance: Gasoline

Date Installed: 08/01/1980

Date Last Used: 03/02/2010

Closure Status: Tank was Removed From Ground

Pipe Material: Bare or Galvanized Steel

Pipe Mode Description: Not reported

Spill Installed: Not reported

Overfill Installed: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NUTMEG FARMS, INC. (Continued)

U002025034

Tank ID: 7811-6
Compartment ID: 7811-6
Compartment Num: 1
Alt. Tank ID: 6
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 3000
Substance: Heating Oil
Date Installed: 08/01/1980
Date Last Used: 03/02/2010
Closure Status: Tank was Removed From Ground
Pipe Material: Bare or Galvanized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

C18
WSW
1/8-1/4
0.225 mi.
1187 ft.

NUTMEG FARMS
668 ORANGE AVE.
WEST HAVEN, CT 06516
Site 3 of 11 in cluster C

LUST S110775779
LIENS N/A
CPCS

Relative:
Higher

Actual:
164 ft.

LUST:
LUST Id: 876
UST Facility Id: Not reported
LUST Case Id: 29004
Lust Status: Lust Completed
Processing Status: Not reported
EPA Reportable: False
Motor Fuel: False
Diesel: False
Gasoline: False
Other: False
Other Release: Not reported
No Release: False
Leak: False
Tank: False
Piping: False
Overfill: False
Removal: False
Incident Date: 1999-08-28 00:00:00
Entry Date: Not reported
Site Case Id: 9905810
UST Site Id: Not reported
Cost Recovery Spill Case #: Not reported
Old SITS Number: Not reported
Case Log Id: Not reported
Monthly Report Id: 0
UST Owner Id: Not reported
LUST Owner Id: Not reported
UST Event Id: 9015
Contact Info: Not reported
Contact EMail: Not reported
Site Contact City,St,Zip: UNKNOWN
2nd Contact: Not reported
2nd Contact EMail: Not reported
2nd Contact Address: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NUTMEG FARMS (Continued)

S110775779

2nd Contact City,St,Zip: UNKNOWN
2nd Contact Address 2: Not reported
2nd Contact City 2: Not reported
2nd Contact Phone Number: Not reported
2nd Contact Fax Number: Not reported
2nd Contact Type: Not reported
Facility City Num: 156
Site Contact: Not reported
Site Contact Address: Not reported
Site Contact Add 2: Not reported
Site Contact City 2: Not reported
Site Contact Phone: Not reported
Site Contact Fax: Not reported
Site Contact Type: Not reported
Department Contact 1: Not reported
Department Contact 2: Not reported
Referral Source: Not reported
Offsite Source: False
Date Referred: Not reported
Emergency: False
Private Heating Fuel: True
Commercial Heating Fuel: False
Commercial HF < 2100 Gal.: False
Commercial HF > 2100 Gal.: False
Commercial HF - Size Unk: False
No LUST Site: False
Cost Recvry Prgm Candidate: False
OCSR Complete: True
Follow Up Flag: False
Alternate Water Supply: False
Relocation: False
Responsible Party: False
Responsible EMail: Not reported
Resp Party Name: Not reported
Resp Party Address: Not reported
Resp Party City,St,Zip: Not reported
Resp Party Town Number: UNKNOWN
Resp Party Phone: Not reported
Resp Party Fax: Not reported
Resp Party Name 2: Not reported
Resp Party Address 2: Not reported
Resp Party Phone 2: Not reported
Investigator Id: 35
Follow Update: Not reported
Area Lextent: Not reported
Annual Precipitation: Not reported
Affected Population: Not reported
Population Setting: Not reported
Ground Water Direction: Not reported
Ground Water Gradient: Not reported
Hydro Basin: Not reported
Drastic: Not reported
Geo Setting: Not reported
Ground Water Classification: Not reported
Receptor: Not reported
Ground Water Flow Direction: Not reported
Ground Water Depth: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NUTMEG FARMS (Continued)

S110775779

Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlaid:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	200, Heating Oil, PRIVATE, REPORT OF A HOUSE FIRE, 8 GAL LEAKED FROM

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NUTMEG FARMS (Continued)

S110775779

Work Performed: A 200 GAL TANK
Not reported

LIENS:

Spill/Case No: 0095-05920
Lien Date: 08/01/2008
Lien Amount: 38407.3

CPCS:

Site Type: LUST
Lust Status: Cleanup Initiated
PTP Form: Not reported
Program: Not reported
Comments: Spill Report Id: 95-5920 Interim Report Spill Case Id: 05920 Case Log
File #: 031 Lust Referral Site. According To Spill Report 95-5920,
Gasoline Odor Was Found In Wiggins Residence Well. Contamination Seems
To Be Coming From A Local Gas Station
Site Type Definition: Leaking Underground Storage Tanks Rem. Started

C19
WSW
1/8-1/4
0.225 mi.
1187 ft.

WEST HAVEN CITY OF
668 ORANGE AVENUE
WEST HAVEN, CT 06156

MANIFEST S109752082
N/A

Site 4 of 11 in cluster C

Relative:
Higher

CT MANIFEST:

Actual:
164 ft.

Waste:
Manifest No: CTF0814507
Waste Occurrence: 1
UNNA: 1203
Hazard Class: 3
US Dot Description: gasahol, gasoline
No of Containers: 001
Container Type: TT
Quantity: 428
Weight/Volume: G
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:

Manifest No: CTF0814507
Waste Occurrence: 1
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:

Year: 2001
Manifest ID: CTF0814507
TSDf EPA ID: CTD002593887
TSDf Name: BRIDGEPORT UNITED RECYCLE (FORMERLY HITCHCOCK GAS)
TSDf Address: 50 CROSS STREET

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST HAVEN CITY OF (Continued)

S109752082

TSDf City,St,Zip: BRIDGEPORT, CT 06608
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 6/22/2001
Transporter EPA ID: CTR000003806
Transporter Name: EARTH TECHNOLOGY INC
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTP000025781
Generator Phone: Not reported
Generator Mailing Addr: 668 ORANGE AVENUE
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06156
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: No
Date Shipped: 6/22/2001
Date Received: 6/22/2001
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

C20
WSW
1/8-1/4
0.225 mi.
1187 ft.

NUTMEG GAS
668-678 ORANGE AVENUE
WEST HAVEN, CT

BROWNFIELDS **S107603297**
N/A

Site 5 of 11 in cluster C

Relative:
Higher

CT BROWNFIELD:

Spill ID: 158
Acres: 0.5
Past Use: Retail/ Petroleum
Road Access: I-95

Actual:
164 ft.

BROWNFIELDS 2:

Region: 2
Acreage: 0.5
Past Use: Retail/ Petroleum
Contact Party: CBRA

MAP FINDINGS

Map ID	Direction	Distance	Elevation	Site	Database(s)	EDR ID Number	EPA ID Number
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C21
WSW
1/8-1/4
0.225 mi.
1187 ft.

CITY OF WEST HAVEN
668 ORANGE AVENUE
WEST HAVEN, CT 06516

Site 6 of 11 in cluster C

MANIFEST **1009221102**
N/A

Relative:
Higher

NY MANIFEST:
 EPA ID: CTP039373599
 Country: USA
 Mailing Name: CITY OF WEST HAVEN
 Mailing Contact: MICHAEL T MCCURRY
 Mailing Address: 668 ORANGE AVENUE
 Mailing Address 2: Not reported
 Mailing City: WEST HAVEN
 Mailing State: CT
 Mailing Zip: 06516
 Mailing Zip4: Not reported
 Mailing Country: USA
 Mailing Phone: 203-937-3599

Actual:
164 ft.

Document ID: NYG3319146
 Manifest Status: Not reported
 Trans1 State ID: CTD001162072
 Trans2 State ID: CTD001162072
 Generator Ship Date: 06/11/2002
 Trans1 Recv Date: 06/11/2002
 Trans2 Recv Date: 06/13/2002
 TSD Site Recv Date: 06/14/2002
 Part A Recv Date: Not reported
 Part B Recv Date: Not reported
 Generator EPA ID: CTP039373599
 Trans1 EPA ID: NYD049836679
 Trans2 EPA ID: Not reported
 TSD ID: 26986ACT
 Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
 Quantity: 01161
 Units: K - Kilograms (2.2 pounds)
 Number of Containers: 001
 Container Type: CM - Metal boxes, cases, roll-offs
 Handling Method: L Landfill.
 Specific Gravity: 01.00
 Year: 2002

Document ID: NYG2949084
 Manifest Status: Not reported
 Trans1 State ID: CTD001162072
 Trans2 State ID: CTD983896341
 Generator Ship Date: 06/11/2002
 Trans1 Recv Date: 06/12/2002
 Trans2 Recv Date: 06/13/2002
 TSD Site Recv Date: 06/13/2002
 Part A Recv Date: Not reported
 Part B Recv Date: Not reported
 Generator EPA ID: CTP039373599
 Trans1 EPA ID: NYD049836679
 Trans2 EPA ID: Not reported
 TSD ID: 30270ACT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF WEST HAVEN (Continued)

1009221102

Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 01810
Units: K - Kilograms (2.2 pounds)
Number of Containers: 010
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: B002 - PETROLEUM OIL WITH 50 BUT < 500 PPM PCB
Quantity: 00368
Units: K - Kilograms (2.2 pounds)
Number of Containers: 002
Container Type: DM - Metal drums, barrels
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 00185
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 2002

Document ID: NYG5259501
Manifest Status: Not reported
Trans1 State ID: 32802ACT
Trans2 State ID: Not reported
Generator Ship Date: 12/22/2004
Trans1 Recv Date: 12/22/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 12/23/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTP039373599
Trans1 EPA ID: CTD011162072
Trans2 EPA ID: Not reported
TSD ID: NYD049836
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 20076
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 2004

Document ID: NYG5260995
Manifest Status: Not reported
Trans1 State ID: V53280CT
Trans2 State ID: Not reported
Generator Ship Date: 12/28/2004
Trans1 Recv Date: 12/28/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 12/29/2004
Part A Recv Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF WEST HAVEN (Continued)

1009221102

Part B Recv Date: Not reported
Generator EPA ID: CTP039373599
Trans1 EPA ID: CTD001162072
Trans2 EPA ID: Not reported
TSD ID: NYD049836
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 07031
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 2004

Document ID: NYG5261004
Manifest Status: Not reported
Trans1 State ID: V53280CT
Trans2 State ID: Not reported
Generator Ship Date: 12/22/2004
Trans1 Recv Date: 12/22/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 12/23/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTP039373599
Trans1 EPA ID: CTD001162072
Trans2 EPA ID: Not reported
TSD ID: NYD049836
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 24304
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 2004

Document ID: NYG5258268
Manifest Status: Not reported
Trans1 State ID: CTD001162072
Trans2 State ID: Not reported
Generator Ship Date: 01/04/2005
Trans1 Recv Date: 01/04/2005
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/05/2005
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTP039373599
Trans1 EPA ID: V53280CT
Trans2 EPA ID: Not reported
TSD ID: NYD049836679
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 16302
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF WEST HAVEN (Continued)

1009221102

Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: Not reported

Document ID: NYG5383206
Manifest Status: Not reported
Trans1 State ID: CTD001162072
Trans2 State ID: Not reported
Generator Ship Date: 11/01/2005
Trans1 Recv Date: 11/01/2005
Trans2 Recv Date: Not reported
TSD Site Recv Date: 11/02/2005
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTP039373599
Trans1 EPA ID: V53280CT
Trans2 EPA ID: Not reported
TSD ID: NYD049836679
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 14896
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: Not reported

Document ID: NYG5258268
Manifest Status: Not reported
Trans1 State ID: CTD001162072
Trans2 State ID: Not reported
Generator Ship Date: 01/04/2005
Trans1 Recv Date: 01/04/2005
Trans2 Recv Date: Not reported
TSD Site Recv Date: 01/05/2005
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTP039373599
Trans1 EPA ID: V53280CT
Trans2 EPA ID: Not reported
TSD ID: NYD049836679
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 16302
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 2005

Document ID: NYG5383206
Manifest Status: Not reported
Trans1 State ID: CTD001162072

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF WEST HAVEN (Continued)

1009221102

Trans2 State ID: Not reported
Generator Ship Date: 11/01/2005
Trans1 Recv Date: 11/01/2005
Trans2 Recv Date: Not reported
TSD Site Recv Date: 11/02/2005
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTP039373599
Trans1 EPA ID: V53280CT
Trans2 EPA ID: Not reported
TSD ID: NYD049836679
Waste Code: B007 - OTHER MISCELLANEOUS PCB WASTES
Quantity: 14896
Units: K - Kilograms (2.2 pounds)
Number of Containers: 001
Container Type: CM - Metal boxes, cases, roll-offs
Handling Method: L Landfill.
Specific Gravity: 01.00
Year: 2005

D22
WNW
1/8-1/4
0.231 mi.
1219 ft.

WEST HAVEN TOWN OF BD OF EDUCATION
2 TETLOW STREET
WEST HAVEN, CT 06516

MANIFEST S109751468
N/A

Site 1 of 6 in cluster D

Relative:
Higher

CT MANIFEST:

Actual:
168 ft.

Waste:
Manifest No: CTF0901208
Waste Occurrence: 1
UNNA: 1263
Hazard Class: 3
US Dot Description: paint related material, paint
No of Containers: 001
Container Type: DM
Quantity: 55
Weight/Volume: G
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Manifest No: CTF0901208
Waste Occurrence: 2
UNNA: 1263
Hazard Class: 3
US Dot Description: paint related material, paint
No of Containers: 001
Container Type: DM
Quantity: 30
Weight/Volume: G
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST HAVEN TOWN OF BD OF EDUCATION (Continued)

S109751468

Waste CD:

Manifest No: CTF0901208
Waste Occurrence: 1
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Manifest No: CTF0901208
Waste Occurrence: 2
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:

Year: 2000
Manifest ID: CTF0901208
TSDf EPA ID: RID040098352
TSDf Name: NORTHLAND ENVIRONMENTAL, INC (STABLEX, RI)
TSDf Address: 252 - 275 ALLENS AVE
TSDf City,St,Zip: PROVIDENCE, RI 02905
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 9/29/2000
Transporter EPA ID: CTR000008151
Transporter Name: D TOX ENVIRONMENTAL CONTRACTOR
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTP000024072
Generator Phone: Not reported
Generator Mailing Addr: 2 TETLOW STREET
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: No
Date Shipped: 9/29/2000
Date Received: 10/3/2000
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

D23
WNW
1/8-1/4
0.231 mi.
1219 ft.

WEST HAVEN TOWN OF MAY V. CARRIGAN SCHOOL
2 TETLOW ST.
WEST HAVEN, CT 06516

MANIFEST S109749892
N/A

Site 2 of 6 in cluster D

Relative:
Higher

CT MANIFEST:

Actual:
168 ft.

Waste:

Manifest No: CTF0757013
Waste Occurrence: 1
UNNA: 3077
Hazard Class: 9
US Dot Description: ENVIRONMENTALLY HAZ. SUBSTANCES,SOLID
No of Containers: 005
Container Type: CF
Quantity: 50
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 4/26/2004
DEO Who Last Modified Record: IG

Waste CD:

Manifest No: CTF0757013
Waste Occurrence: 1
EPA Waste Code: D009
Recycled Waste?: F
Date Record Was Last Modified: 4/26/2004
DEO Who Last Modified Record: IG

Detail:

Year: 1999
Manifest ID: CTF0757013
TSDf EPA ID: CT5000001495
TSDf Name: NORTHEAST LAMP RECYCLING INC
TSDf Address: 250 MAIN ST
TSDf City,St,Zip: EAST WINDSOR, CT 06088
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 3/1/1999
Transporter EPA ID: CT5000001495
Transporter Name: NORTHEAST LAMP RECYCLING INC
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTP000022327
Generator Phone: 2039374390
Generator Mailing Addr: 2 TETLOW ST. WEST HAVEN
Generator Mailing Town: Not reported
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST HAVEN TOWN OF MAY V. CARRIGAN SCHOOL (Continued)

S109749892

Special Handling: Not reported
Discrepancies: No
Date Shipped: 3/1/1999
Date Received: 3/1/1999
Last modified date: 4/26/2004
Last modified by: IG
Comments: Not reported

D24
WNW
1/8-1/4
0.231 mi.
1219 ft.

WEST HAVEN PUBLIC SCHOOLS
2 TETLOW ST
WEST HAVEN, CT 06516

MANIFEST S109754330
N/A

Site 3 of 6 in cluster D

Relative:
Higher

CT MANIFEST:

Waste:

Actual:
168 ft.

Manifest No: nja5105172
Waste Occurrence: 5
UNNA: 1325
Hazard Class: 4.1
US Dot Description: FLAMMABLE SOLIDS, ORGANIC, N.O.S.
No of Containers: 001
Container Type: DF
Quantity: 20
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 6
UNNA: 3099
Hazard Class: 5.1
US Dot Description: OXIDIZING LIQUID, TOXIC, N.O.S.
No of Containers: 001
Container Type: DF
Quantity: 60
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 1
UNNA: 1993
Hazard Class: 3
US Dot Description: FLAMMABLE LIQUIDS, N.O.S.
No of Containers: 001
Container Type: DF
Quantity: 40
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST HAVEN PUBLIC SCHOOLS (Continued)

S109754330

DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 4
UNNA: 3179
Hazard Class: 4.1
US Dot Description: FLAMMABLE SOLID, TOXIC, INORGANIC, N.O.S.
No of Containers: 001
Container Type: DF
Quantity: 1
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 11
UNNA: 3264
Hazard Class: 8
US Dot Description: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
No of Containers: 001
Container Type: DF
Quantity: 30
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 3
UNNA: 2209
Hazard Class: 8
US Dot Description: FORMALDEHYDE, SOLUTION (GREATER THAN 25%)
No of Containers: 001
Container Type: DF
Quantity: 50
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 10
UNNA: 1564
Hazard Class: 6.1
US Dot Description: barium compounds nos
No of Containers: 001
Container Type: DF
Quantity: 3
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST HAVEN PUBLIC SCHOOLS (Continued)

S109754330

Manifest No: nja5105172
Waste Occurrence: 12
UNNA: 3266
Hazard Class: 8
US Dot Description: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
No of Containers: 001
Container Type: DF
Quantity: 75
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 2
UNNA: 3286
Hazard Class: 3
US Dot Description: FLAMMABLE LIQUIDS, TOXIC, CORROSIVE, N.O.S.
No of Containers: 001
Container Type: DF
Quantity: 10
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 7
UNNA: 1663
Hazard Class: 5.1
US Dot Description: waste chromium trioxide anhydrous
No of Containers: 001
Container Type: DF
Quantity: 1
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 9
UNNA: 2810
Hazard Class: 6.1
US Dot Description: TOXIC LIQUIDS, ORGANIC, N.O.S.
No of Containers: 001
Container Type: DF
Quantity: 1
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST HAVEN PUBLIC SCHOOLS (Continued)

S109754330

Waste Occurrence: 13
UNNA: 2820
Hazard Class: 8
US Dot Description: waste butyric acid
No of Containers: 001
Container Type: DF
Quantity: 4
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 8
UNNA: 1588
Hazard Class: 6.1
US Dot Description: CYANIDES, INORGANIC, SOLID, N.O.S.
No of Containers: 001
Container Type: CF
Quantity: 1
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 14
UNNA: 1993
Hazard Class: COMBUSTIBLE
US Dot Description: COMBUSTIBLE LIQUID, N.O.S.
No of Containers: 001
Container Type: DF
Quantity: 100
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Waste CD:

Manifest No: nja5105172
Waste Occurrence: 12
EPA Waste Code: D002
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 3
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST HAVEN PUBLIC SCHOOLS (Continued)

S109754330

Waste Occurrence: 6
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 11
EPA Waste Code: D002
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 7
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 8
EPA Waste Code: P030
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 9
EPA Waste Code: P075
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 14
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 2
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 4
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST HAVEN PUBLIC SCHOOLS (Continued)

S109754330

EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 13
EPA Waste Code: D002
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 5
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Manifest No: nja5105172
Waste Occurrence: 10
EPA Waste Code: D005
Recycled Waste?: F
Date Record Was Last Modified: 3/9/2007
DEO Who Last Modified Record: DMG

Detail:

Year: 2005
Manifest ID: nja5105172
TSDF EPA ID: NJD980536593
TSDF Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDF Address: 1 EDEN LANE
TSDF City,St,Zip: FLANDERS, NJ 07836
TSDF Country: USA
TSDF Telephone: 9736913923
Transport Date: 4/15/2005
Transporter EPA ID: NJD080631369
Transporter Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
Transporter Country: USA
Transporter Phone: (973)691-7321
Trans 2 Date: 4/20/2005
Trans 2 EPA ID: NJD054126164
Trans 2 Name: FREEHOLD CARTAGE, INC.
Trans 2 Address: P.O. BOX 5010
Trans 2 City,St,Zip: FREEHOLD, NJ 07728
Trans 2 Country: USA
Trans 2 Phone: (732)462-1001
EPA ID: CTP000028649
Generator Phone: (203)937-4390
Generator Mailing Addr: 2 TETLOW ST
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516-
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: Not reported
Date Shipped: 4/15/2005

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST HAVEN PUBLIC SCHOOLS (Continued)

S109754330

Date Received: 4/21/2005
Last modified date: 3/9/2007
Last modified by: DMG
Comments: Not reported

D25
WNW
1/8-1/4
0.231 mi.
1219 ft.

WEST HAVEN TOWN OF BD OF ED
2 TETLOW ST
WEST HAVEN, CT 06516

MANIFEST S109755190
N/A

Site 4 of 6 in cluster D

Relative:
Higher

CT MANIFEST:

Actual:
168 ft.

Waste:

Manifest No: 000105172ves
Waste Occurrence: 1
UNNA: 3264
Hazard Class: 8
US Dot Description: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
No of Containers: 3
Container Type: DF
Quantity: 380
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Manifest No: 000105172ves
Waste Occurrence: 1
UNNA: 3264
Hazard Class: 8
US Dot Description: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
No of Containers: 3
Container Type: DF
Quantity: 380
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Waste CD:

Manifest No: 000105172ves
Waste Occurrence: 1
EPA Waste Code: U122
Recycled Waste?: F
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Manifest No: 000105172ves
Waste Occurrence: 1
EPA Waste Code: U122
Recycled Waste?: False
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST HAVEN TOWN OF BD OF ED (Continued)

S109755190

Detail:

Year: 2007
Manifest ID: 000105172ves
TSDf EPA ID: NJD980536593
TSDf Name: VEOLIA TECHNICAL SOLUTIONS LLC
TSDf Address: 1 EDEN LANE
TSDf City,St,Zip: FLANDERS, NJ 07836
TSDf Country: USA
TSDf Telephone: 9736913923
Transport Date: 5/21/2007
Transporter EPA ID: NJD080631369
Transporter Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
Transporter Country: USA
Transporter Phone: (973)691-7321
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTP000029867
Generator Phone: (203)937-4347
Generator Mailing Addr: 25 OGDEN ST
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516-
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: Not reported
Date Shipped: 5/21/2007
Date Received: 6/1/2007
Last modified date: 8/5/2008
Last modified by: JEB
Comments: Not reported

Year: 2007
Manifest ID: 000105172ves
TSDf EPA ID: NJD980536593
TSDf Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDf Address: 1 EDEN LANE
TSDf City,St,Zip: FLANDERS, NJ 07836
TSDf Country: USA
TSDf Telephone: 9736913923
Transport Date: 5/21/2007
Transporter EPA ID: NJD080631369
Transporter Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
Transporter Country: USA
Transporter Phone: (973)691-7321
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTP000029867

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST HAVEN TOWN OF BD OF ED (Continued)

S109755190

Generator Phone: (203)937-4347
Generator Mailing Addr: 25 OGDEN ST
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516-
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: Not reported
Date Shipped: 5/21/2007
Date Received: 6/1/2007
Last modified date: 8/5/2008
Last modified by: JEB
Comments: Not reported

Waste:

Manifest No: 000105304ves
Waste Occurrence: 1
UNNA: 1993
Hazard Class: 3
US Dot Description: FLAMMABLE LIQUIDS, N.O.S.
No of Containers: 1
Container Type: DF
Quantity: 55
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Manifest No: 000105304ves
Waste Occurrence: 2
UNNA: 1760
Hazard Class: 8
US Dot Description: CORROSIVE LIQUIDS, N.O.S.
No of Containers: 4
Container Type: DF
Quantity: 240
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Manifest No: 000105304ves
Waste Occurrence: 2
UNNA: 1760
Hazard Class: 8
US Dot Description: CORROSIVE LIQUIDS, N.O.S.
No of Containers: 4
Container Type: DF
Quantity: 240
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST HAVEN TOWN OF BD OF ED (Continued)

S109755190

Manifest No: 000105304ves
Waste Occurrence: 1
UNNA: 1993
Hazard Class: 3
US Dot Description: FLAMMABLE LIQUIDS, N.O.S.
No of Containers: 1
Container Type: DF
Quantity: 55
Weight/Volume: P
Additional Description: Not reported
Handling Code: Not reported
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Waste CD:

Manifest No: 000105304ves
Waste Occurrence: 1
EPA Waste Code: F003
Recycled Waste?: F
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Manifest No: 000105304ves
Waste Occurrence: 2
EPA Waste Code: U122
Recycled Waste?: F
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Manifest No: 000105304ves
Waste Occurrence: 1
EPA Waste Code: F003
Recycled Waste?: False
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Manifest No: 000105304ves
Waste Occurrence: 2
EPA Waste Code: U122
Recycled Waste?: False
Date Record Was Last Modified: 8/5/2008
DEO Who Last Modified Record: JEB

Detail:

Year: 2007
Manifest ID: 000105304ves
TSDf EPA ID: NJD980536593
TSDf Name: VEOLIAS TECHNICAL SOLUTIONS LLC
TSDf Address: 1 EDEN LANE
TSDf City,St,Zip: FLANDERS, NJ 07836
TSDf Country: USA
TSDf Telephone: 9736913923
Transport Date: 5/18/2007
Transporter EPA ID: NJD080631369
Transporter Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
Transporter Country: USA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST HAVEN TOWN OF BD OF ED (Continued)

S109755190

Transporter Phone: (973)691-7321
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: ctp000029867
Generator Phone: (203)937-4347
Generator Mailing Addr: 25 OGDEN ST
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516-
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: Not reported
Date Shipped: 5/18/2007
Date Received: 5/24/2007
Last modified date: 8/5/2008
Last modified by: JEB
Comments: Not reported

Year: 2007
Manifest ID: 000105304ves
TSDf EPA ID: NJD980536593
TSDf Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
TSDf Address: 1 EDEN LANE
TSDf City,St,Zip: FLANDERS, NJ 07836
TSDf Country: USA
TSDf Telephone: 9736913923
Transport Date: 5/18/2007
Transporter EPA ID: NJD080631369
Transporter Name: VEOLIA ES TECHNICAL SOLUTIONS LLC
Transporter Country: USA
Transporter Phone: (973)691-7321
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: ctp000029867
Generator Phone: (203)937-4347
Generator Mailing Addr: 25 OGDEN ST
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516-
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: Not reported
Date Shipped: 5/18/2007
Date Received: 5/24/2007
Last modified date: 8/5/2008
Last modified by: JEB
Comments: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

D26
WNW
1/8-1/4
0.231 mi.
1219 ft.

MAY V. CARRIGAN MIDDLE SCHOOL
2 TETLOW ST
WEST HAVEN, CT 06516

UST **U002025074**
N/A

Site 5 of 6 in cluster D

Relative:
Higher

UST:

Facility Id: 7857
Alt. Facility ID: 156-7857
Latitude: Not reported
Longitude: Not reported
Owner: CITY OF WEST HAVEN
Owner Address: 355 MAIN ST
Owner Address 2: Not reported
Owner City,St,Zip: WEST HAVEN, CT 065164310

Actual:
168 ft.

Tank ID: 7857-1
Compartment ID: 7857-1
Compartment Num: 1
Alt. Tank ID: D1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 10000
Substance: Heating Oil
Date Installed: 03/01/1967
Date Last Used: 08/01/1990
Closure Status: Tank was Removed From Ground
Pipe Material: Bare or Galvanized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

D27
WNW
1/8-1/4
0.231 mi.
1219 ft.

CARRIGAN MIDDLE SCHOOL
2 TETLOW STREET
WEST HAVEN, CT 06516

MANIFEST **S107870775**
N/A

Site 6 of 6 in cluster D

Relative:
Higher

NJ MANIFEST:

Manifest Code: NJA5105172
EPA ID: CTP000028649
Date Shipped: 04/15/2005
TSDF EPA ID: NJD980536593
Transporter EPA ID: NJD080631369
Transporter 2 EPA ID: NJD054126164
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 04/15/2005
Date Trans2 Transported Waste: 04/20/2005
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported

Actual:
168 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARRIGAN MIDDLE SCHOOL (Continued)

S107870775

Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 04/21/2005
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Generator EPA Facility Name: Not reported
Transporter-1 EPA Facility Name: Not reported
Transporter-2 EPA Facility Name: Not reported
Transporter-3 EPA Facility Name: Not reported
Transporter-4 EPA Facility Name: Not reported
Transporter-5 EPA Facility Name: Not reported
TSDF EPA Facility Name: Not reported
QTY Units: Not reported
Transporter SEQ ID: Not reported
Transporter-1 Date: Not reported
Waste SEQ ID: Not reported
Waste Type Code 2: Not reported
Waste Type Code 3: Not reported
Waste Type Code 4: Not reported
Waste Type Code 5: Not reported
Waste Type Code 6: Not reported
Date Accepted: Not reported
Manifest Discrepancy Type: Not reported
Data Entry Number: 06140522
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: Not reported
Manifest Year: Not reported
Quantity: Not reported
Unit: Not reported
Hand Code: Not reported

Manifest Code: 000105172VES
EPA ID: CTP000028649
Date Shipped: 05/21/2007
TSDF EPA ID: NJD980536593
Transporter EPA ID: NJD080631369
Transporter 2 EPA ID: NJD054126164
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 05/21/2007
Date Trans2 Transported Waste: 05/30/2007
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CARRIGAN MIDDLE SCHOOL (Continued)

S107870775

Date Trans9 Transported Waste: Not reported
Date Trans10 Transported Waste: Not reported
Date TSDF Received Waste: 06/01/2007
Tranporter 1 Decal: Not reported
Tranporter 2 Decal: Not reported
Generator EPA Facility Name: Not reported
Transporter-1 EPA Facility Name: Not reported
Transporter-2 EPA Facility Name: Not reported
Transporter-3 EPA Facility Name: Not reported
Transporter-4 EPA Facility Name: Not reported
Transporter-5 EPA Facility Name: Not reported
TSDF EPA Facility Name: Not reported
QTY Units: Not reported
Transporter SEQ ID: Not reported
Transporter-1 Date: Not reported
Waste SEQ ID: Not reported
Waste Type Code 2: Not reported
Waste Type Code 3: Not reported
Waste Type Code 4: Not reported
Waste Type Code 5: Not reported
Waste Type Code 6: Not reported
Date Accepted: Not reported
Manifest Discrepancy Type: Not reported
Data Entry Number: Not reported
Reference Manifest Number: Not reported
Was Load Rejected (Y/N): No
Reason Load Was Rejected: Not reported
Waste Code: U122
Manifest Year: 2007 New Jersey Manifest Data
Quantity: 360
Unit: P
Hand Code: H14

Manifest Code: 000368419VES
EPA ID: CTP000028649
Date Shipped: 08/31/2009
TSDF EPA ID: NJD980536593
Transporter EPA ID: NJD080631369
Transporter 2 EPA ID: NJD054126164
Transporter 3 EPA ID: Not reported
Transporter 4 EPA ID: Not reported
Transporter 5 EPA ID: Not reported
Transporter 6 EPA ID: Not reported
Transporter 7 EPA ID: Not reported
Transporter 8 EPA ID: Not reported
Transporter 10 EPA ID: Not reported
Date Trans1 Transported Waste: 08/31/2009
Date Trans2 Transported Waste: 09/04/2009
Date Trans3 Transported Waste: Not reported
Date Trans4 Transported Waste: Not reported
Date Trans5 Transported Waste: Not reported
Date Trans6 Transported Waste: Not reported
Date Trans7 Transported Waste: Not reported
Date Trans8 Transported Waste: Not reported
Date Trans9 Transported Waste: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

CARRIGAN MIDDLE SCHOOL (Continued)

S107870775

Date Trans10 Transported Waste: Not reported
 Date TSDf Received Waste: 09/08/2009
 Transporter 1 Decal: Not reported
 Transporter 2 Decal: Not reported
 Generator EPA Facility Name: Not reported
 Transporter-1 EPA Facility Name: Not reported
 Transporter-2 EPA Facility Name: Not reported
 Transporter-3 EPA Facility Name: Not reported
 Transporter-4 EPA Facility Name: Not reported
 Transporter-5 EPA Facility Name: Not reported
 TSDf EPA Facility Name: Not reported
 QTY Units: Not reported
 Transporter SEQ ID: Not reported
 Transporter-1 Date: Not reported
 Waste SEQ ID: Not reported
 Waste Type Code 2: Not reported
 Waste Type Code 3: Not reported
 Waste Type Code 4: Not reported
 Waste Type Code 5: Not reported
 Waste Type Code 6: Not reported
 Date Accepted: Not reported
 Manifest Discrepancy Type: Not reported
 Data Entry Number: Not reported
 Reference Manifest Number: Not reported
 Was Load Rejected (Y/N): No
 Reason Load Was Rejected: Not reported
 Waste Code: D005
 Manifest Year: 2009 New Jersey Manifest Data
 Quantity: 60
 Unit: P
 Hand Code: H141

Waste Code: D001
 Manifest Year: 2009 New Jersey Manifest Data
 Quantity: 40
 Unit: P
 Hand Code: H141

C28
WSW
 1/8-1/4
 0.231 mi.
 1220 ft.

QQMCO TRANSM
672 ORANGE AVE.
WEST HAVEN, CT 06516
Site 7 of 11 in cluster C

MANIFEST S109741596
N/A

Relative:
Higher

CT MANIFEST:

Waste:

Actual:
162 ft.

Manifest No: CTF0003270
 Waste Occurrence: 1
 UNNA: 1255
 Hazard Class: COMBUSTIBL
 US Dot Description: WASTE PETROLEUM NAPHTHA
 No of Containers: 004
 Container Type: DM
 Quantity: 344
 Weight/Volume: P

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

QQMCO TRANSM (Continued)

S109741596

Additional Description: Y
Handling Code: S02
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:

Manifest No: CTF0003270
Waste Occurrence: 1
EPA Waste Code: D001
Recycled Waste?: T
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:

Year: 1991
Manifest ID: CTF0003270
TSDf EPA ID: CTD980667927
TSDf Name: SAFETY KLEEN CORP 2-112-01
TSDf Address: 11 TIPPING DR LOT #4
TSDf City,St,Zip: BRANFORD, CT 06405
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 12/12/1991
Transporter EPA ID: ILD051060408
Transporter Name: SAFETY-KLEEN CORP. (TRANSPORTER ONLY)
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTP000012502
Generator Phone: 2039348374
Generator Mailing Addr: 672 ORANGE AVE.
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Yes
Discrepancies: No
Date Shipped: 12/12/1991
Date Received: 12/12/1991
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number
EPA ID Number

C29 **AAMCO TRANSMISSION**
WSW **672 ORANGE AVE**
1/8-1/4 **WEST HAVEN, CT 06516**
0.231 mi.
1220 ft. **Site 8 of 11 in cluster C**

MANIFEST **S109733968**
N/A

Relative:
Higher

CT MANIFEST:

Actual:
162 ft.

Waste:

Manifest No: MAH060421
Waste Occurrence: 1
UNNA: 1993
Hazard Class: 6.7
US Dot Description: WASTE COMBUSTIBLE LIQUID
No of Containers: 004
Container Type: DM
Quantity: 44
Weight/Volume: G
Additional Description: Y
Handling Code: S02
Date Record Was Last Modified: 4/26/2004
DEO Who Last Modified Record: IG

Waste CD:

Manifest No: MAH060421
Waste Occurrence: 1
EPA Waste Code: D001
Recycled Waste?: T
Date Record Was Last Modified: 4/26/2004
DEO Who Last Modified Record: IG

Detail:

Year: 1994
Manifest ID: MAH060421
TSDf EPA ID: CTD980667927
TSDf Name: SAFETY KLEEN CORP 2-112-01
TSDf Address: 11 TIPPING DR LOT #4
TSDf City,St,Zip: BRANFORD, CT 06405
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 6/17/1994
Transporter EPA ID: ILD984908202
Transporter Name: SAFETY-KLEEN CORP.
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTD983900721
Generator Phone: 2039348374
Generator Mailing Addr: 672 ORANGE AVE
Generator Mailing Town: WEST HAVEN
Generator Mailing State: N,
Generator Mailing Zip: 06516
Generator Mailing Country: USA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AAMCO TRANSPMISSION (Continued)

S109733968

Special Handling: Yes
Discrepancies: Yes
Date Shipped: 6/17/1994
Date Received: 6/17/1994
Last modified date: 4/26/2004
Last modified by: IG
Comments: Not reported

Waste:

Manifest No: CTF0219083
Waste Occurrence: 1
UNNA: 1993
Hazard Class: COMBUSTIBL
US Dot Description: WASTE COMBUSTIBLE LIQUID
No of Containers: 004
Container Type: DM
Quantity: 64
Weight/Volume: G
Additional Description: Y
Handling Code: S02
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:

Manifest No: CTF0219083
Waste Occurrence: 1
EPA Waste Code: D001
Recycled Waste?: T
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:

Year: 1993
Manifest ID: CTF0219083
TSDf EPA ID: CTD980667927
TSDf Name: SAFETY KLEEN CORP 2-112-01
TSDf Address: 11 TIPPING DR LOT #4
TSDf City,St,Zip: BRANFORD, CT 06405
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 7/2/1993
Transporter EPA ID: ILD984908202
Transporter Name: SAFETY-KLEEN CORP.
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTD983900721
Generator Phone: 2039348374
Generator Mailing Addr: 672 ORANGE AVE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AAMCO TRANSMISSION (Continued)

S109733968

Generator Mailing Town: WEST HAVEN
Generator Mailing State: N,
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Yes
Discrepancies: Yes
Date Shipped: 7/2/1993
Date Received: 7/2/1993
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

Waste:

Manifest No: CTF0136355
Waste Occurrence: 1
UNNA: 1993
Hazard Class: COMBUSTIBL
US Dot Description: WASTE COMBUSTIBLE LIQUID
No of Containers: 002
Container Type: DM
Quantity: 172
Weight/Volume: P
Additional Description: Y
Handling Code: S02
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:

Manifest No: CTF0136355
Waste Occurrence: 1
EPA Waste Code: D001
Recycled Waste?: T
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:

Year: 1992
Manifest ID: CTF0136355
TSDf EPA ID: CTD980667927
TSDf Name: SAFETY KLEEN CORP 2-112-01
TSDf Address: 11 TIPPING DR LOT #4
TSDf City,St,Zip: BRANFORD, CT 06405
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 7/30/1992
Transporter EPA ID: ILD051060408
Transporter Name: SAFETY-KLEEN CORP. (TRANSPORTER ONLY)
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AAMCO TRANSMISSION (Continued)

S109733968

Trans 2 Phone: Not reported
EPA ID: CTD983900721
Generator Phone: 2039348374
Generator Mailing Addr: 672 ORANGE AVE
Generator Mailing Town: WEST HAVEN
Generator Mailing State: N,
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Yes
Discrepancies: No
Date Shipped: 7/30/1992
Date Received: 7/30/1992
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

C30
WSW
1/8-1/4
0.231 mi.
1220 ft.

AAMCO TRANSM
672 ORANGE AVE.
WEST HAVE, CT 06516
Site 9 of 11 in cluster C

MANIFEST S109741595
N/A

Relative:
Higher

CT MANIFEST:

Actual:
162 ft.

Waste:

Manifest No: CTF0162397
Waste Occurrence: 1
UNNA: 1255
Hazard Class: COMBUSTIBL
US Dot Description: WASTE PETROLEUM NAPHTHA
No of Containers: 005
Container Type: DM
Quantity: 389
Weight/Volume: P
Additional Description: Y
Handling Code: S02
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:

Manifest No: CTF0162397
Waste Occurrence: 1
EPA Waste Code: D001
Recycled Waste?: T
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:

Year: 1992
Manifest ID: CTF0162397
TSDf EPA ID: CTD980667927
TSDf Name: SAFETY KLEEN CORP 2-112-01
TSDf Address: 11 TIPPING DR LOT #4
TSDf City,St,Zip: BRANFORD, CT 06405
TSDf Country: USA
TSDf Telephone: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AAMCO TRANSM (Continued)

S109741595

Transport Date: 2/25/1992
Transporter EPA ID: ILD051060408
Transporter Name: SAFETY-KLEEN CORP. (TRANSPORTER ONLY)
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTP000012502
Generator Phone: 2039348374
Generator Mailing Addr: 672 ORANGE AVE.
Generator Mailing Town: WEST HAVE
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Yes
Discrepancies: No
Date Shipped: 2/25/1992
Date Received: 2/25/1992
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

C31
WSW
1/8-1/4
0.231 mi.
1220 ft.

672 ORANGE AVE
WEST HAVEN, CT 06516
Site 10 of 11 in cluster C

EDR US Hist Auto Stat 1015596858
N/A

Relative:
Higher

EDR Historical Auto Stations:

Name: A A M C O AUTOMATIC TRANSMISSIONS
Year: 1999

Actual:
162 ft.

Address: 672 ORANGE AVE

Name: A A M C O AUTOMATIC TRANSMISSIONS
Year: 2000
Address: 672 ORANGE AVE

C32
WSW
1/8-1/4
0.231 mi.
1220 ft.

AAMCO TRANSMISSIONS OF WEST HAVEN
672 ORANGE AVE
WEST HAVEN, CT 06516
Site 11 of 11 in cluster C

RCRA-SQG 1000686955
FINDS CTD983900721

Relative:
Higher

RCRA-SQG:

Date form received by agency: 10/19/2012
Facility name: AAMCO TRANSMISSIONS OF WEST HAVEN
Facility address: 672 ORANGE AVE
WEST HAVEN, CT 06516

Actual:
162 ft.

EPA ID: CTD983900721
Mailing address: ORANGE AVE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AAMCO TRANSMISSIONS OF WEST HAVEN (Continued)

1000686955

Contact: WEST HAVEN, CT 06516
Contact address: DANIEL ALBIZU
ORANGE AVE
WEST HAVEN, CT 06516
Contact country: US
Contact telephone: (203) 934-8371
Contact email: Not reported
EPA Region: 01
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: AAMCO TRANSMISSION OF WEST HAVEN
Owner/operator address: 781 ORANGE AVE
WEST HAVEN, CT 06516
Owner/operator country: Not reported
Owner/operator telephone: (203) 934-8371
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/0001
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 02/26/2002
Facility name: AAMCO TRANSMISSIONS OF WEST HAVEN
Classification: Small Quantity Generator

Date form received by agency: 12/30/1991
Facility name: AAMCO TRANSMISSIONS OF WEST HAVEN
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

AAMCO TRANSMISSIONS OF WEST HAVEN (Continued)

1000686955

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D018
 Waste name: BENZENE

Waste code: D039
 Waste name: TETRACHLOROETHYLENE

Violation Status: No violations found

FINDS:

Registry ID: 110002493365

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**33
 ESE
 1/4-1/2
 0.380 mi.
 2005 ft.**

**SOLI'S GARAGE
 965 FIRST AVENUE
 WEST HAVEN, CT**

**LUST S110280401
 N/A**

**Relative:
 Lower**

LUST:

LUST Id: 0
 UST Facility Id: Not reported
 LUST Case Id: 48742
 Lust Status: Lust Completed
 Processing Status: Not reported
 EPA Reportable: False
 Motor Fuel: False
 Diesel: False
 Gasoline: False
 Other: False
 Other Release: Not reported
 No Release: False
 Leak: False
 Tank: True
 Piping: False
 Overfill: False
 Removal: True
 Incident Date: 1994-06-03 00:00:00
 Entry Date: Not reported
 Site Case Id: Not reported
 UST Site Id: Not reported
 Cost Recovery Spill Case #: Not reported
 Old SITS Number: Not reported

**Actual:
 61 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOLI'S GARAGE (Continued)

S110280401

Case Log Id: Not reported
Monthly Report Id: 0
UST Owner Id: Not reported
LUST Owner Id: Not reported
UST Event Id: 1817
Contact Info: Not reported
Contact EMail: Not reported
Site Contact City,St,Zip: UNKNOWN
2nd Contact: Richard Louis (Enviroshield)
2nd Contact EMail: Not reported
2nd Contact Address: P.O.1296
2nd Contact City,St,Zip: 138, CT 06615
2nd Contact Address 2: 250 Moffitt Street
2nd Contact City 2: Stratford
2nd Contact Phone Number: 2033805644
2nd Contact Fax Number: 2033788736
2nd Contact Type: Vice President
Facility City Num: 156
Site Contact: Not reported
Site Contact Address: Not reported
Site Contact Add 2: Not reported
Site Contact City 2: Not reported
Site Contact Phone: Not reported
Site Contact Fax: Not reported
Site Contact Type: Not reported
Department Contact 1: Not reported
Department Contact 2: Not reported
Referral Source: Not reported
Offsite Source: False
Date Referred: Not reported
Emergency: False
Private Heating Fuel: True
Commercial Heating Fuel: False
Commercial HF < 2100 Gal.: False
Commercial HF > 2100 Gal.: False
Commercial HF - Size Unk: False
No LUST Site: False
Cost Recvry Prgm Candidate: False
OCSR Complete: False
Follow Up Flag: False
Alternate Water Supply: False
Relocation: False
Responsible Party: False
Responsible EMail: Not reported
Resp Party Name: Lennox Stuart
Resp Party Address: 37 Tulip Tree Lane
Resp Party City,St,Zip: Darien, CT 06820
Resp Party Town Number: 35
Resp Party Phone: Not reported
Resp Party Fax: Not reported
Resp Party Name 2: Not reported
Resp Party Address 2: Not reported
Resp Party Phone 2: Not reported
Investigator Id: 24
Follow Update: Not reported
Area Lextent: Not reported
Annual Precipitation: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOLI'S GARAGE (Continued)

S110280401

Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlaid:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	True
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	True
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

SOLI'S GARAGE (Continued)

S110280401

Lph Wells: Not reported
 User Stamp: Allison Forrest/AForrest
 Date Stamp: 2010-03-18 00:00:00
 Correspondence: Not reported
 Environmental Impact: Not reported
 FollowUp: Not reported
 GW Comments: No potable water wells on site
 Location Desc: Not reported
 NOV Comments: Not reported
 Release Desc: Not reported
 Running Comments: Not reported
 Work Performed: Not reported

34
SSW
 1/4-1/2
 0.387 mi.
 2046 ft.

ORCHARD HILLS CONDOMINIUMS
309 TERRACE AVENUE
WEST HAVEN, CT 06516

LUST S105739173
CPCS N/A

Relative:
Lower

LUST:

Actual:
112 ft.

LUST Id: 0
 UST Facility Id: Not reported
 LUST Case Id: 45618
 Lust Status: Lust Completed
 Processing Status: Not reported
 EPA Reportable: False
 Motor Fuel: False
 Diesel: False
 Gasoline: False
 Other: False
 Other Release: Not reported
 No Release: False
 Leak: False
 Tank: False
 Piping: False
 Overfill: False
 Removal: False
 Incident Date: 1997-04-08 00:00:00
 Entry Date: Not reported
 Site Case Id: 9701680
 UST Site Id: Not reported
 Cost Recovery Spill Case #: Not reported
 Old SITS Number: Not reported
 Case Log Id: Not reported
 Monthly Report Id: 0
 UST Owner Id: Not reported
 LUST Owner Id: Not reported
 UST Event Id: 4845
 Contact Info: Not reported
 Contact EMail: Not reported
 Site Contact City,St,Zip: UNKNOWN
 2nd Contact: Not reported
 2nd Contact EMail: Not reported
 2nd Contact Address: Not reported
 2nd Contact City,St,Zip: UNKNOWN
 2nd Contact Address 2: Not reported
 2nd Contact City 2: Not reported
 2nd Contact Phone Number: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ORCHARD HILLS CONDOMINIUMS (Continued)

S105739173

2nd Contact Fax Number: Not reported
2nd Contact Type: Not reported
Facility City Num: 156
Site Contact: Not reported
Site Contact Address: Not reported
Site Contact Add 2: Not reported
Site Contact City 2: Not reported
Site Contact Phone: Not reported
Site Contact Fax: Not reported
Site Contact Type: Not reported
Department Contact 1: Not reported
Department Contact 2: Not reported
Referral Source: Not reported
Offsite Source: False
Date Referred: Not reported
Emergency: False
Private Heating Fuel: True
Commercial Heating Fuel: False
Commercial HF < 2100 Gal.: False
Commercial HF > 2100 Gal.: False
Commercial HF - Size Unk: False
No LUST Site: False
Cost Recvry Prgm Candidate: False
OCSR Complete: True
Follow Up Flag: False
Alternate Water Supply: False
Relocation: False
Responsible Party: False
Responsible EMail: Not reported
Resp Party Name: Not reported
Resp Party Address: Not reported
Resp Party City,St,Zip: Not reported
Resp Party Town Number: UNKNOWN
Resp Party Phone: Not reported
Resp Party Fax: Not reported
Resp Party Name 2: Not reported
Resp Party Address 2: Not reported
Resp Party Phone 2: Not reported
Investigator Id: 35
Follow Update: Not reported
Area Lextent: Not reported
Annual Precipitation: Not reported
Affected Population: Not reported
Population Setting: Not reported
Ground Water Direction: Not reported
Ground Water Gradient: Not reported
Hydro Basin: Not reported
Drastic: Not reported
Geo Setting: Not reported
Ground Water Classification: Not reported
Receptor: Not reported
Ground Water Flow Direction: Not reported
Ground Water Depth: Not reported
Areas Of Concern: Not reported
Free Product Inches: Not reported
Fund Date: Not reported
Fund Planned: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ORCHARD HILLS CONDOMINIUMS (Continued)

S105739173

Fund Obligated:	No
Fund Outlaid:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	#2 HEATING OIL, , removed 1-550 gallon tank and 5yards of contamination
Work Performed:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ORCHARD HILLS CONDOMINIUMS (Continued)

S105739173

CPCS:

Site Type: LUST
Lust Status: Pending
PTP Form: Not reported
Program: Not reported
Comments: Emergency Response To Complaints Of Home Wells Smelling Like Smoke Soon After A Natural Gas Explosion At Condo Complex. Eleven Home Wells Sampled And Geoprobe Investigation On Condo Complex Looking For Other Accelerants.
Site Type Definition: Leaking Underground Storage Tanks Pending

35
WSW
1/4-1/2
0.397 mi.
2094 ft.

VOLVO
795 GRANGE AVE.
WEST HAVEN, CT 06516

LUST S101640060
CPCS N/A

Relative:
Higher

LUST:

Actual:
136 ft.

LUST Id: 2596
UST Facility Id: Not reported
LUST Case Id: 30667
Lust Status: Lust Completed
Processing Status: Not reported
EPA Reportable: False
Motor Fuel: False
Diesel: False
Gasoline: False
Other: False
Other Release: Not reported
No Release: False
Leak: False
Tank: False
Piping: False
Overfill: False
Removal: False
Incident Date: 1994-05-27 00:00:00
Entry Date: Not reported
Site Case Id: Not reported
UST Site Id: Not reported
Cost Recovery Spill Case #: Not reported
Old SITS Number: Not reported
Case Log Id: Not reported
Monthly Report Id: 0
UST Owner Id: Not reported
LUST Owner Id: Not reported
UST Event Id: 1579
Contact Info: Not reported
Contact EMail: Not reported
Site Contact City,St,Zip: UNKNOWN
2nd Contact: Not reported
2nd Contact EMail: Not reported
2nd Contact Address: Not reported
2nd Contact City,St,Zip: UNKNOWN
2nd Contact Address 2: Not reported
2nd Contact City 2: Not reported
2nd Contact Phone Number: Not reported
2nd Contact Fax Number: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VOLVO (Continued)

S101640060

2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	True
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSRD Complete:	False
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	UNKNOWN
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	23
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

VOLVO (Continued)

S101640060

Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported
NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	Not reported
Lph Wells:	Not reported
User Stamp:	Not reported
Date Stamp:	Not reported
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	Not reported
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	Not reported
Work Performed:	Not reported

CPCS:

Site Type:	LUST
Lust Status:	LUST Completed (DEP's significant hazard definition)

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

VOLVO (Continued)

S101640060

PTP Form: Not reported
 Program: Not reported
 Comments: Not reported
 Site Type Definition: Leaking Underground Storage Tanks Completed

**E36
 NE
 1/4-1/2
 0.399 mi.
 2105 ft.**

**UNIVERSITY OF NEW HAVEN
 300 ORANGE AVE
 WEST HAVEN, CT 06516**

Site 1 of 3 in cluster E

**RCRA-SQG 1005904601
 FTTS CTR000502658
 HIST FTTS
 FINDS
 LUST
 MANIFEST
 US AIRS
 CPCS**

**Relative:
 Lower**

**Actual:
 69 ft.**

RCRA-SQG:
 Date form received by agency: 09/15/2011
 Facility name: UNIVERSITY OF NEW HAVEN
 Facility address: 300 ORANGE AVE
 WEST HAVEN, CT 06516
 EPA ID: CTR000502658
 Mailing address: ORANGE AVE
 WEST HAVEN, CT 06516
 Contact: RONALD M QUAGLIANI
 Contact address: ORANGE AVE
 WEST HAVEN, CT 06516
 Contact country: US
 Contact telephone: (203) 932-7147
 Contact email: RQUAGLIANI@NEWHAVEN.EDU
 EPA Region: 01
 Classification: Small Small Quantity Generator
 Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
 Owner/operator name: UNIVERSITY OF NEW HAVEN
 Owner/operator address: 300 ORANGE AVE
 WEST HAVEN, CT 06516
 Owner/operator country: US
 Owner/operator telephone: (203) 932-7100
 Legal status: Private
 Owner/Operator Type: Owner
 Owner/Op start date: 01/01/1920
 Owner/Op end date: Not reported

Owner/operator name: UNIVERSITY OF NEW HAVEN
 Owner/operator address: 300 ORANGE AVE
 WEST HAVEN, CT 06516
 Owner/operator country: US
 Owner/operator telephone: (203) 932-7100
 Legal status: Private
 Owner/Operator Type: Operator
 Owner/Op start date: 01/01/1920
 Owner/Op end date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF NEW HAVEN (Continued)

1005904601

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:

Date form received by agency: 09/13/2011
Facility name: UNIVERSITY OF NEW HAVEN
Classification: Small Quantity Generator

Date form received by agency: 09/25/2002
Facility name: UNIVERSITY OF NEW HAVEN
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 08/27/2002
Facility name: UNIVERSITY OF NEW HAVEN
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: CR02
Waste name: WASTE OIL

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF NEW HAVEN (Continued)

1005904601

DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D004
Waste name: ARSENIC

Waste code: D005
Waste name: BARIUM

Waste code: D006
Waste name: CADMIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D011
Waste name: SILVER

Waste code: D018
Waste name: BENZENE

Waste code: D021
Waste name: CHLOROBENZENE

Waste code: D022
Waste name: CHLOROFORM

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: D038
Waste name: PYRIDINE

Waste code: D040
Waste name: TRICHLOROETHYLENE

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT

Map ID
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MAP FINDINGS

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EDR ID Number
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UNIVERSITY OF NEW HAVEN (Continued)

1005904601

MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: P120
Waste name: VANADIUM OXIDE V2O5

Waste code: U123
Waste name: FORMIC ACID (C,T)

Waste code: U165
Waste name: NAPHTHALENE

Waste code: U170
Waste name: P-NITROPHENOL

Waste code: U188
Waste name: PHENOL

Waste code: U196
Waste name: PYRIDINE

Waste code: U225
Waste name: BROMOFORM

Violation Status: No violations found

FTTS INSP:

Inspection Number: 19911015CT022 1
Region: 01
Inspection Date: 10/15/91
Inspector: KWIATKOWSKI
Violation occurred: No
Investigation Type: Section 6 PCB State Conducted
Investigation Reason: Neutral Scheme, State
Legislation Code: TSCA
Facility Function: User

HIST FTTS INSP:

Inspection Number: 19911015CT022 1
Region: 01
Inspection Date: Not reported
Inspector: KWIATKOWSKI

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MAP FINDINGS

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UNIVERSITY OF NEW HAVEN (Continued)

1005904601

Violation occurred: No
Investigation Type: Section 6 PCB State Conducted
Investigation Reason: Neutral Scheme, State
Legislation Code: TSCA
Facility Function: User

FINDS:

Registry ID: 110001404542

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

Connecticut Site Information Management System (SIMS) is part of a suite of web-based applications designed to allow the Connecticut Department of Environmental Protection (DEP) staff to harmonize environmental interest information from disparate systems in a single agency-wide data repository (known as CFI). SIMS provides tools for identifying and resolving duplicate data, querying data (using both tabular and geospatial methods), and viewing/maintaining documents associated to the data.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

LUST:

Map ID
Direction
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF NEW HAVEN (Continued)

1005904601

LUST Id: 4281
UST Facility Id: Not reported
LUST Case Id: 32453
Lust Status: Lust Completed
Processing Status: Not reported
EPA Reportable: False
Motor Fuel: False
Diesel: False
Gasoline: False
Other: False
Other Release: Not reported
No Release: False
Leak: False
Tank: False
Piping: False
Overfill: False
Removal: False
Incident Date: 1998-08-14 00:00:00
Entry Date: Not reported
Site Case Id: 9805428
UST Site Id: Not reported
Cost Recovery Spill Case #: Not reported
Old SITS Number: Not reported
Case Log Id: Not reported
Monthly Report Id: 0
UST Owner Id: Not reported
LUST Owner Id: Not reported
UST Event Id: 6583
Contact Info: Not reported
Contact EMail: Not reported
Site Contact City,St,Zip: UNKNOWN
2nd Contact: Not reported
2nd Contact EMail: Not reported
2nd Contact Address: Not reported
2nd Contact City,St,Zip: UNKNOWN
2nd Contact Address 2: Not reported
2nd Contact City 2: Not reported
2nd Contact Phone Number: Not reported
2nd Contact Fax Number: Not reported
2nd Contact Type: Not reported
Facility City Num: 156
Site Contact: Not reported
Site Contact Address: Not reported
Site Contact Add 2: Not reported
Site Contact City 2: Not reported
Site Contact Phone: Not reported
Site Contact Fax: Not reported
Site Contact Type: Not reported
Department Contact 1: Not reported
Department Contact 2: Not reported
Referral Source: Not reported
Offsite Source: False
Date Referred: Not reported
Emergency: False
Private Heating Fuel: True
Commercial Heating Fuel: False
Commercial HF < 2100 Gal.: False

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MAP FINDINGS

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UNIVERSITY OF NEW HAVEN (Continued)

1005904601

Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSR Complete:	True
Follow Up Flag:	False
Alternate Water Supply:	False
Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Not reported
Resp Party Address:	Not reported
Resp Party City,St,Zip:	Not reported
Resp Party Town Number:	UNKNOWN
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	35
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	Not reported
Receptor:	Not reported
Ground Water Flow Direction:	Not reported
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	Not reported
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlaid:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	False
NOV Action:	None

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MAP FINDINGS

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UNIVERSITY OF NEW HAVEN (Continued)

1005904601

NOV Issued: Not reported
NOV Due: Not reported
NOV Received: Not reported
NOV Closed: Not reported
NOV Disc Date: Not reported
NOV Issued Date: Not reported
NOV Compliance Sched: Not reported
NOV Admin Order: Not reported
NOV Referred To Ag: Not reported
Stop All NOV Actions: False
Release Invest Rpt: False
DEP App Letter 1: False
Correct Action Plan: False
DEP App Letter 2: False
Rem Sys Install: False
Rem Sys Install Date: Not reported
Closure Date: Not reported
Rem Sys Monitoring Rpt: False
Qrtly Gwater Mon Rpts: False
Closure Req Rpt: False
DEP Closure Letter: False
Referred To: Not reported
No Wells: Not reported
Lph Wells: Not reported
User Stamp: Not reported
Date Stamp: Not reported
Correspondence: Not reported
Environmental Impact: Not reported
FollowUp: Not reported
GW Comments: Not reported
Location Desc: Not reported
NOV Comments: Not reported
Release Desc: Not reported
Running Comments: #2 fuel oil, , removed 275g lust
Work Performed: Not reported

NY MANIFEST:

EPA ID: CTR000502658
Country: USA
Mailing Name: UNIVER OF NEW HAVEN ENV HEALTH & SAFETY
Mailing Contact: ROBERT RYCHLOVSKY
Mailing Address: 300 BOSTON POST RD
Mailing Address 2: Not reported
Mailing City: WEST HAVEN
Mailing State: CT
Mailing Zip: 06516
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 203-932-7141

Document ID: NYG4246596
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 08/16/2005
Trans1 Recv Date: 08/16/2005

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UNIVERSITY OF NEW HAVEN (Continued)

1005904601

Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/31/2005
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: MAJ84959
Trans2 EPA ID: Not reported
TSDF ID: NYD077444263
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00348
Units: P - Pounds
Number of Containers: 002
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00189
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: Not reported
Specific Gravity: 01.00
Waste Code: Not reported
Quantity: Not reported
Units: Not reported
Number of Containers: Not reported
Container Type: Not reported
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: Not reported
Year: 2005

Document ID: NYG4246596
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 08/16/2005
Trans1 Recv Date: 08/16/2005
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/31/2005
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: MAJ84959
Trans2 EPA ID: Not reported
TSDF ID: NYD077444263
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00348
Units: P - Pounds
Number of Containers: 002
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00189
Units: P - Pounds
Number of Containers: 001

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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF NEW HAVEN (Continued)

1005904601

Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: Not reported
Specific Gravity: 01.00
Waste Code: Not reported
Quantity: Not reported
Units: Not reported
Number of Containers: Not reported
Container Type: Not reported
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: Not reported
Year: Not reported

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2008-07-28
Trans1 Recv Date: 2008-07-28
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2008-08-11
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 10.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 1.0
Year: 2008
Manifest Tracking Num: 005081274JJK
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2009-07-01
Trans1 Recv Date: 2009-07-01
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2009-07-21

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1005904601

Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 26.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 2009
Manifest Tracking Num: 002870061FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2009-07-01
Trans1 Recv Date: 2009-07-01
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2009-07-21
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 13.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 2009
Manifest Tracking Num: 002870061FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N

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UNIVERSITY OF NEW HAVEN (Continued)

1005904601

Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2009-07-01
Trans1 Recv Date: 2009-07-01
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2009-07-21
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 8.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 2009
Manifest Tracking Num: 002870061FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2009-07-01
Trans1 Recv Date: 2009-07-01
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2009-07-21
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263

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UNIVERSITY OF NEW HAVEN (Continued)

1005904601

Waste Code: Not reported
Quantity: 8.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 1.0
Year: 2009
Manifest Tracking Num: 002870061FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2009-07-01
Trans1 Recv Date: 2009-07-01
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2009-07-21
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 10.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 2009
Manifest Tracking Num: 002870061FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

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MAP FINDINGS

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Database(s)

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EPA ID Number

UNIVERSITY OF NEW HAVEN (Continued)

1005904601

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2009-07-01
Trans1 Recv Date: 2009-07-01
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2009-07-21
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 10.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 1.0
Year: 2009
Manifest Tracking Num: 002870061FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2009-07-01
Trans1 Recv Date: 2009-07-01
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2009-07-21
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 27.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF NEW HAVEN (Continued)

1005904601

Year: 2009
Manifest Tracking Num: 002870061FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2009-03-19
Trans1 Recv Date: 2009-03-19
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2009-03-26
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 9.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 1.0

Year: 2009
Manifest Tracking Num: 005084862JJK
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: NYG2697201
Manifest Status: Not reported
Trans1 State ID: MAK14243
Trans2 State ID: Not reported
Generator Ship Date: 08/09/2004
Trans1 Recv Date: 08/09/2004

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1005904601

Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/25/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: MAD985286988
Trans2 EPA ID: Not reported
TSD ID: NYD077444
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00044
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00083
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00101
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D011 - SILVER 5.0 MG/L TCLP
Quantity: 00055
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 2004

Document ID: NYG2697246
Manifest Status: Not reported
Trans1 State ID: MAK14243
Trans2 State ID: Not reported
Generator Ship Date: 08/09/2004
Trans1 Recv Date: 08/09/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/25/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: MAD985286988
Trans2 EPA ID: Not reported
TSD ID: NYD077444
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00017
Units: P - Pounds
Number of Containers: 001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF NEW HAVEN (Continued)

1005904601

Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00084
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00060
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00054
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 2004

Document ID: NYG2697246
Manifest Status: Not reported
Trans1 State ID: MAK14243
Trans2 State ID: Not reported
Generator Ship Date: 08/09/2004
Trans1 Recv Date: 08/09/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/25/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: MAD985286988
Trans2 EPA ID: Not reported
TSD ID: NYD077444
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00048
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D006 - CADMIUM 1.0 MG/L TCLP
Quantity: 00020
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00007

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF NEW HAVEN (Continued)

1005904601

Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D009 - MERCURY 0.2 MG/L TCLP
Quantity: 00010
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 01.00
Year: 2004

Document ID: NYG2697246
Manifest Status: Not reported
Trans1 State ID: MAK14243
Trans2 State ID: Not reported
Generator Ship Date: 08/09/2004
Trans1 Recv Date: 08/09/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/25/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: MAD985286988
Trans2 EPA ID: Not reported
TSD ID: NYD077444
Waste Code: D005 - BARIUM 100.0 MG/L TCLP
Quantity: 00139
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Quantity: 00036
Units: P - Pounds
Number of Containers: 002
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D003 - NON-LISTED REACTIVE WASTES
Quantity: 00007
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Waste Code: D003 - NON-LISTED REACTIVE WASTES
Quantity: 00011
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF NEW HAVEN (Continued)

1005904601

Year: 2004

Document ID: NYG2697246
Manifest Status: Not reported
Trans1 State ID: MAK14243
Trans2 State ID: Not reported
Generator Ship Date: 08/09/2004
Trans1 Recv Date: 08/09/2004
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/25/2004
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: MAD985286988
Trans2 EPA ID: Not reported
TSD ID: NYD077444
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00006
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00024
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 01.00
Waste Code: P105 - SODIUM AZIDE
Quantity: 00006
Units: P - Pounds
Number of Containers: 001
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 01.00
Year: 2004

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2008-07-28
Trans1 Recv Date: 2008-07-28
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2008-08-11
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 10.0

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF NEW HAVEN (Continued)

1005904601

Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 1.0
Year: 2008
Manifest Tracking Num: 005081274JJK
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2009-03-19
Trans1 Recv Date: 2009-03-19
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2009-03-26
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: NYD077444263
Waste Code: Not reported
Quantity: 9.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 1.0
Year: 2009
Manifest Tracking Num: 005084862JJK
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF NEW HAVEN (Continued)

1005904601

Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2009-03-19
Trans1 Recv Date: 2009-03-19
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2009-03-26
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 9.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 1.0
Year: 2009
Manifest Tracking Num: 005084862JJK
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: MAD985286988
Trans2 State ID: Not reported
Generator Ship Date: 2009-07-01
Trans1 Recv Date: 2009-07-01
Trans2 Recv Date: Not reported
TSD Site Recv Date: 2009-07-21
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: CTR000502658
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSD ID: NYD077444263
Waste Code: Not reported
Quantity: 13.0
Units: P - Pounds
Number of Containers: 1.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: B Incineration, heat recovery, burning.
Specific Gravity: 1.0
Year: 2009

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF NEW HAVEN (Continued)

1005904601

Manifest Tracking Num: 002870061FLE
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

[Click this hyperlink](#) while viewing on your computer to access
40 additional NY_MANIFEST: record(s) in the EDR Site Report.

AIRS (AFS):

Airs Minor Details:

EPA plant ID: 110001404542
Plant name: UNIVERSITY OF NEW HAVEN
Plant address: 300 ORANGE AVE
WEST HAVEN, CT 06516
County: NEW HAVEN
Region code: 01
Dunn & Bradst #: 067075382
Air quality cntrl region: 042
Sic code: 8221
Sic code desc: Not reported
North Am. industrial classf: 611310
NAIC code description: Colleges, Universities, and Professional Schools
Default compliance status: UNKNOWN COMPLIANCE STATUS
Default classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Govt facility: ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR
LOCAL GOVERNMENT
Current HPV: Not reported

Historical Compliance Minor Sources:

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 0904
Air prog code hist file: 0
State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1001
Air prog code hist file: 0
State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1003
Air prog code hist file: 0
State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1101
Air prog code hist file: 0
State compliance status: UNKNOWN COMPLIANCE STATUS

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF NEW HAVEN (Continued)

1005904601

Hist compliance date: 1102
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1104
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1202
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1203
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1002
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1004
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1103
Air prog code hist file: 0

State compliance status: UNKNOWN COMPLIANCE STATUS
Hist compliance date: 1201
Air prog code hist file: 0

Compliance & Violation Data by Minor Sources:

Air program code: SIP SOURCE
Plant air program pollutant: CARBON MONOXIDE
Default pollutant classification: CLASS IS UNKNOWN
Def. poll. compliance status: NO APPLICABLE STATE REGULATION
Def. attainment/non atnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: SIP SOURCE
Plant air program pollutant: SULFUR DIOXIDE
Default pollutant classification: CLASS IS UNKNOWN
Def. poll. compliance status: UNKNOWN COMPLIANCE STATUS
Def. attainment/non atnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: SIP SOURCE
Plant air program pollutant: VOLATILE ORGANIC COMPOUNDS
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: UNKNOWN COMPLIANCE STATUS
Def. attainment/non atnmnt: Not reported
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: SIP SOURCE

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

UNIVERSITY OF NEW HAVEN (Continued)

1005904601

Plant air program pollutant: TOTAL PARTICULATE MATTER
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: UNKNOWN COMPLIANCE STATUS
Def. attainment/non attainment: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

CPCS:

Site Type: LUST
Lust Status: Investigation
PTP Form: Not reported
Program: Not reported
Comments: #2 Heating Oil, , Tank & Soil Removal - Pump Out Contracted
Site Type Definition: Leaking Underground Storage Tanks Investigation

**E37
NE
1/4-1/2
0.399 mi.
2105 ft.**

**NEW HAVEN, UNIVERSITY OF
300 ORANGE AVENUE
WEST HAVEN, CT 06516**

**MLTS 1000976631
SDADB N/A
UST**

Site 2 of 3 in cluster E

**Relative:
Lower**

MLTS:

License Number: 06-28191-02
First License Date: 6/3/1994
License Date: 8/9/2004
Lic. Expiration Date: 6/30/2004
Contact Name: GEORGE L WHEELER
Contact Phone: 203-932-7171
Institution Code: 28191
Department/Bldg: Not reported
States Allowing Use: Not reported
Store Material Use: No
Redistribution Use: No
Incinerate Use: No
Burial Use: No
Last Inspection Date: 10/1/2003
Next Inspection Date: 10/1/2008
Licensee Contact: RSO
Inspector Name: GEORGE WHEELER

**Actual:
69 ft.**

Site Discovery and Assessment:

Facility ID: 2133
Rem Master ID: 312
PTP Id: Not reported
WPC Number: Not reported
Postal District: Not reported
Latitude: Not reported
Longitude: Not reported
Lat/Long Determined By: Not reported
Ground Water Quality Classification: Not reported
Surface Water Quality Classification: Not reported
Waste Type: Not reported
Disposal: UST, SPILL/DUMP
Sample Data Available: False
Updated By: POST, M.
Update Program: CORE
Updated: 1/31/1995

Map ID
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NEW HAVEN, UNIVERSITY OF (Continued)

1000976631

Date Created:	Not reported
Duplicate:	False
EPA CERCLIS Id:	Not reported
Number EPA RCRIS Id:	Not reported
Site on EPA's CERCLIS:	Not reported
Site Archived from CERCLIS:	Not reported
Archive Date:	Not reported
EPA's Removal at Site:	Not reported
Deferred to another EPA Program:	Not reported
EPA Env Priority Initiative Site:	Not reported
Federal Facility:	Not reported
Site on EPA's National Priority List:	Not reported
Part of an NPL site:	Not reported
RCRA Generator Status:	Not reported
RCRA Permit Status:	Not reported
Referral Id:	1962
Source of referral:	SPILLS
Date Received:	2/1/1995
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date dt_assigned:	Not reported
Remediation Complete Approved DEP/Verified by LEP:	Not reported
Outcome:	Not reported
Referral Id:	3802
Source of referral:	SPILLS
Date Received:	12/27/1994
Staff Assigned:	Not reported
Remediation Program:	PWP
Date dt_assigned:	Not reported
Remediation Complete Approved DEP/Verified by LEP:	Not reported
Outcome:	Not reported
Remedial Id:	Not reported
PTP Id:	Not reported
Remediation Program:	Not reported
Remediation Program Entered:	Not reported
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date dt_assign:	Not reported
Project Phase:	Not reported
Order issued:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Remedial Investigation Start:	Not reported
Remedial Investigation Completed:	Not reported
Remedial Design Start:	Not reported
Remedial Design complet:	Not reported
Remedial Action Start:	Not reported
Remedial Action Completed:	Not reported
Date Oper/ maintenance Started:	Not reported
GW monitoring:	Not reported
Remediation complete Approved DEP/Verified by LEP:	Not reported
Order Id:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Staff Assigned:	Not reported
Type of Order:	Not reported
Order Respondent:	Not reported

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NEW HAVEN, UNIVERSITY OF (Continued)

1000976631

Admin Appeal Date: Not reported
Date of Admin Appeal Ruling: Not reported
Date of Admin Appeal Ruling: Not reported
Date of Final Order: Not reported
Date of Court Appeal: Not reported
Date of Court Ruling: Not reported
Date of Court Ruling: Not reported
Date Order Modified: Not reported
Date Referred to AG: Not reported
Judgement: Not reported
Date of AGR judgement: Not reported
Penalty assessed: Not reported
Order Complete: Not reported
In compliance: Not reported
Comments: Not reported

UST:

Facility Id: 7813
Alt. Facility ID: 156-7813
Latitude: Not reported
Longitude: Not reported
Owner: UNIVERSITY OF NEW HAVEN, INCORPORATED
Owner Address: 300 BOSTON POST RD
Owner Address 2: Not reported
Owner City,St,Zip: WEST HAVEN, CT 065161916

Tank ID: 7813-1
Compartment ID: 7813-1
Compartment Num: 1
Alt. Tank ID: A1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 4000
Substance: Heating Oil
Date Installed: 01/01/1971
Date Last Used: 05/01/1995
Closure Status: Tank was Removed From Ground
Pipe Material: Bare or Galvanized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-10
Compartment ID: 7813-10
Compartment Num: 1
Alt. Tank ID: G1R1
Tank Status: Permanently Closed
Tank Material: Fiberglass Reinforced Plastic
Secondary Material: Not reported
Capacity: 4000
Substance: Heating Oil
Date Installed: 01/01/1988
Date Last Used: 09/01/1996
Closure Status: Tank was Removed From Ground
Pipe Material: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NEW HAVEN, UNIVERSITY OF (Continued)

1000976631

Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-11
Compartment ID: 7813-11
Compartment Num: 1
Alt. Tank ID: H1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 1000
Substance: Heating Oil
Date Installed: 01/01/1955
Date Last Used: 12/01/1994
Closure Status: Tank was Removed From Ground
Pipe Material: Bare or Galvanized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-12
Compartment ID: 7813-12
Compartment Num: 1
Alt. Tank ID: H2
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 5000
Substance: Heating Oil
Date Installed: 01/01/1950
Date Last Used: 03/01/1995
Closure Status: Tank was Removed From Ground
Pipe Material: Not reported
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-13
Compartment ID: 7813-13
Compartment Num: 1
Alt. Tank ID: I1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 8000
Substance: Heating Oil
Date Installed: 01/01/1971
Date Last Used: 12/01/1994
Closure Status: Tank Filled with Inert Material
Pipe Material: Bare or Galvanized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NEW HAVEN, UNIVERSITY OF (Continued)

1000976631

Tank ID: 7813-14
Compartment ID: 7813-14
Compartment Num: 1
Alt. Tank ID: J1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 8000
Substance: Heating Oil
Date Installed: 01/01/1971
Date Last Used: 12/01/1994
Closure Status: Tank was Removed From Ground
Pipe Material: Bare or Galvanized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-15
Compartment ID: 7813-15
Compartment Num: 1
Alt. Tank ID: K1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 5000
Substance: Heating Oil
Date Installed: 01/01/1985
Date Last Used: 12/01/1994
Closure Status: Tank was Removed From Ground
Pipe Material: Bare or Galvanized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-16
Compartment ID: 7813-16
Compartment Num: 1
Alt. Tank ID: L1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 2000
Substance: Heating Oil
Date Installed: 01/01/1960
Date Last Used: 09/01/1996
Closure Status: Tank was Removed From Ground
Pipe Material: Bare or Galvanized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-17
Compartment ID: 7813-17
Compartment Num: 1

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NEW HAVEN, UNIVERSITY OF (Continued)

1000976631

Alt. Tank ID: M1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 500
Substance: Heating Oil
Date Installed: 01/01/1950
Date Last Used: 04/01/1996
Closure Status: Tank Filled with Inert Material
Pipe Material: Other (Specify)
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-2
Compartment ID: 7813-2
Compartment Num: 1
Alt. Tank ID: B1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 10000
Substance: Heating Oil
Date Installed: 01/01/1950
Date Last Used: 06/01/1988
Closure Status: Tank was Removed From Ground
Pipe Material: Bare or Galvanized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-3
Compartment ID: 7813-3
Compartment Num: 1
Alt. Tank ID: B1R1
Tank Status: Permanently Closed
Tank Material: Fiberglass Reinforced Plastic
Secondary Material: Not reported
Capacity: 10000
Substance: Heating Oil
Date Installed: 09/01/1988
Date Last Used: 09/01/1996
Closure Status: Tank was Removed From Ground
Pipe Material: Bare or Galvanized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-4
Compartment ID: 7813-4
Compartment Num: 1
Alt. Tank ID: C1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NEW HAVEN, UNIVERSITY OF (Continued)

1000976631

Secondary Material: Not reported
Capacity: 8000
Substance: Heating Oil
Date Installed: 01/01/1965
Date Last Used: 06/01/1988
Closure Status: Tank was Removed From Ground
Pipe Material: Bare or Galvanized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-5
Compartment ID: 7813-5
Compartment Num: 1
Alt. Tank ID: C1R1
Tank Status: Permanently Closed
Tank Material: Fiberglass Reinforced Plastic
Secondary Material: Not reported
Capacity: 10000
Substance: Heating Oil
Date Installed: 09/01/1988
Date Last Used: 09/01/1996
Closure Status: Tank was Removed From Ground
Pipe Material: Bare or Galvanized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-6
Compartment ID: 7813-6
Compartment Num: 1
Alt. Tank ID: D1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 4000
Substance: Heating Oil
Date Installed: 01/01/1984
Date Last Used: 09/01/1996
Closure Status: Tank was Removed From Ground
Pipe Material: Bare or Galvanized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-7
Compartment ID: 7813-7
Compartment Num: 1
Alt. Tank ID: E1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 5000
Substance: Heating Oil

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NEW HAVEN, UNIVERSITY OF (Continued)

1000976631

Date Installed: 01/01/1973
Date Last Used: 09/01/1996
Closure Status: Tank was Removed From Ground
Pipe Material: Bare or Galvanized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-8
Compartment ID: 7813-8
Compartment Num: 1
Alt. Tank ID: F1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 1000
Substance: Heating Oil
Date Installed: 01/01/1955
Date Last Used: 09/01/1996
Closure Status: Tank was Removed From Ground
Pipe Material: Bare or Galvanized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

Tank ID: 7813-9
Compartment ID: 7813-9
Compartment Num: 1
Alt. Tank ID: G1
Tank Status: Permanently Closed
Tank Material: Asphalt Coated or Bare Steel
Secondary Material: Not reported
Capacity: 1000
Substance: Heating Oil
Date Installed: 01/01/1955
Date Last Used: 01/01/1988
Closure Status: Tank was Removed From Ground
Pipe Material: Bare or Galvanized Steel
Pipe Mode Description: Not reported
Spill Installed: Not reported
Overfill Installed: Not reported

E38
NE
1/4-1/2
0.405 mi.
2139 ft.

1239 CAMPBELL AVE
WEST HAVEN, CT
Site 3 of 3 in cluster E

LUST S109731500
MANIFEST N/A
SPILLS

Relative:
Lower

LUST:
LUST Id: 0
UST Facility Id: 12375
LUST Case Id: 60025
Lust Status: Lust Completed
Processing Status: Not reported
EPA Reportable: True
Motor Fuel: False

Actual:
66 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S109731500

Diesel:	False
Gasoline:	False
Other:	False
Other Release:	Not reported
No Release:	False
Leak:	False
Tank:	False
Piping:	False
Overfill:	False
Removal:	False
Incident Date:	2002-09-26 00:00:00
Entry Date:	2011-01-25 00:00:00
Site Case Id:	200206802
UST Site Id:	1072
Cost Recovery Spill Case #:	0
Old SITS Number:	0
Case Log Id:	0
Monthly Report Id:	0
UST Owner Id:	8915
LUST Owner Id:	Not reported
UST Event Id:	0
Contact Info:	Not reported
Contact EMail:	Not reported
Site Contact City,St,Zip:	UNKNOWN
2nd Contact:	Lori Wiess (Shire Corporation)
2nd Contact EMail:	Not reported
2nd Contact Address:	795 Route 32
2nd Contact City,St,Zip:	53, CT 06254
2nd Contact Address 2:	Box 6
2nd Contact City 2:	North Franklin
2nd Contact Phone Number:	8606426618
2nd Contact Fax Number:	Not reported
2nd Contact Type:	Not reported
Facility City Num:	156
Site Contact:	Not reported
Site Contact Address:	Not reported
Site Contact Add 2:	Not reported
Site Contact City 2:	Not reported
Site Contact Phone:	Not reported
Site Contact Fax:	Not reported
Site Contact Type:	Not reported
Department Contact 1:	Not reported
Department Contact 2:	Not reported
Referral Source:	Not reported
Offsite Source:	False
Date Referred:	Not reported
Emergency:	False
Private Heating Fuel:	False
Commercial Heating Fuel:	False
Commercial HF < 2100 Gal.:	False
Commercial HF > 2100 Gal.:	False
Commercial HF - Size Unk:	False
No LUST Site:	False
Cost Recvry Prgm Candidate:	False
OCSR Complete:	False
Follow Up Flag:	False
Alternate Water Supply:	False

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S109731500

Relocation:	False
Responsible Party:	False
Responsible EMail:	Not reported
Resp Party Name:	Marty Ennis
Resp Party Address:	309 Route 169
Resp Party City,St,Zip:	Woodstock, CT 062813323
Resp Party Town Number:	169
Resp Party Phone:	Not reported
Resp Party Fax:	Not reported
Resp Party Name 2:	Not reported
Resp Party Address 2:	Not reported
Resp Party Phone 2:	Not reported
Investigator Id:	0
Follow Update:	Not reported
Area Lextent:	Not reported
Annual Precipitation:	Not reported
Affected Population:	Not reported
Population Setting:	Not reported
Ground Water Direction:	Not reported
Ground Water Gradient:	Not reported
Hydro Basin:	Not reported
Drastic:	Not reported
Geo Setting:	Not reported
Ground Water Classification:	GAA
Receptor:	Not reported
Ground Water Flow Direction:	south/southeast
Ground Water Depth:	Not reported
Areas Of Concern:	Not reported
Free Product Inches:	0
Fund Date:	Not reported
Fund Planned:	No
Fund Obligated:	No
Fund Outlayed:	No
Fund Judgment:	No
Fund Recovered:	No
Cellar Borings:	False
Install Micro Wells:	False
Ground Water Sample:	False
Soil Sample:	False
Soil Gas:	False
Site Inspect:	False
Soil Excavate:	False
Geo Probe:	False
Survey:	False
Potable Well Sample:	False
Sample MWS:	False
Ground Water Gauging:	False
Soil Venting:	False
Active:	True
NOV Action:	None
NOV Issued:	Not reported
NOV Due:	Not reported
NOV Received:	Not reported
NOV Closed:	Not reported
NOV Disc Date:	Not reported
NOV Issued Date:	Not reported
NOV Compliance Sched:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

(Continued)

S109731500

NOV Admin Order:	Not reported
NOV Referred To Ag:	Not reported
Stop All NOV Actions:	False
Release Invest Rpt:	False
DEP App Letter 1:	False
Correct Action Plan:	False
DEP App Letter 2:	False
Rem Sys Install:	False
Rem Sys Install Date:	Not reported
Closure Date:	Not reported
Rem Sys Monitoring Rpt:	False
Qrtly Gwater Mon Rpts:	False
Closure Req Rpt:	False
DEP Closure Letter:	False
Referred To:	Not reported
No Wells:	0
Lph Wells:	0
User Stamp:	Allison Forrest/ForrestA
Date Stamp:	2012-11-02 00:00:00
Correspondence:	Not reported
Environmental Impact:	Not reported
FollowUp:	Not reported
GW Comments:	City water not available in Woodstock - onsite potable well.
Location Desc:	Not reported
NOV Comments:	Not reported
Release Desc:	Not reported
Running Comments:	Spills Files, UST Enforcement Files, Cleanup Fund Files, and LUST Files
Work Performed:	Timeline from UST CF Application 1924: Construction of facility 1925: Installation of original USTs and pumps 1957: New USTs and pumps installed 1984: Two customers complain of water is automobile gasoline tanks in July and Mobil Service inspects the USTs and the 4k UST was found to contain 5 inches of water and was pumped out. Mobil removes the 4k UST and visible holes are found. Contamination was found in tank grave but Mobil did not sample or remediate. In August, Mobil removes old pumps and soil contamination is found but no sampling or remediation is done. 2002: Shire Corp. removes 450 gallons of water from the abandoned 2k UST and removes UST. Spill report 2002-06802 called in. Soil is screened and excavated. Closure sampling is performed and the tank grave is backfilled.

CT MANIFEST:

Waste:

Manifest No:	NYG3651282
Waste Occurrence:	1
UNNA:	1203
Hazard Class:	3
US Dot Description:	gasahol, gasoline
No of Containers:	001
Container Type:	TT
Quantity:	540
Weight/Volume:	G
Additional Description:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S109731500

Handling Code: Not reported
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:
Manifest No: NYG3651282
Waste Occurrence: 1
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:
Year: 2000
Manifest ID: NYG3651282
TSDf EPA ID: NYD093248698
TSDf Name: FORT EDWARD EXPRESS CO INC
TSDf Address: 50 CHURCH ST PORT ALBANY
TSDf City,St,Zip: ALBANY, NY 12202
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 8/28/2000
Transporter EPA ID: MAD082303777
Transporter Name: CYN OIL CORPORATION,
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTD982198046
Generator Phone: 2155277900
Generator Mailing Addr: 1239 CAMPBELL AVE.
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Not reported
Discrepancies: Not reported
Date Shipped: 8/28/2000
Date Received: 8/28/2000
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

Waste:
Manifest No: CTF0233097
Waste Occurrence: 1
UNNA: 1993
Hazard Class: FLAMMABLE
US Dot Description: WASTE FLAMMABLE LIQUID, NOS
No of Containers: 001

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S109731500

Container Type: DM
Quantity: 55
Weight/Volume: G
Additional Description: Y
Handling Code: S02
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Waste CD:

Manifest No: CTF0233097
Waste Occurrence: 1
EPA Waste Code: D001
Recycled Waste?: F
Date Record Was Last Modified: 4/27/2004
DEO Who Last Modified Record: IG

Detail:

Year: 1993
Manifest ID: CTF0233097
TSDf EPA ID: CTD021816889
TSDf Name: UNITED INDUSTRIAL SERVICE DBA ADVANCED LIQUID RECY
TSDf Address: 136 GRACEY AVENUE
TSDf City,St,Zip: MERIDEN, CT 06450
TSDf Country: USA
TSDf Telephone: Not reported
Transport Date: 5/4/1993
Transporter EPA ID: CTD021816889
Transporter Name: UNITED INDUSTRIAL SERVICE DBA ADVANCED LIQUID RECY
Transporter Country: USA
Transporter Phone: Not reported
Trans 2 Date: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
Trans 2 Address: Not reported
Trans 2 City,St,Zip: CT
Trans 2 Country: USA
Trans 2 Phone: Not reported
EPA ID: CTD982198046
Generator Phone: Not reported
Generator Mailing Addr: 1239 CAMPBELL AVE.
Generator Mailing Town: WEST HAVEN
Generator Mailing State: CT
Generator Mailing Zip: 06516
Generator Mailing Country: USA
Special Handling: Yes
Discrepancies: No
Date Shipped: 5/4/1993
Date Received: 5/4/1993
Last modified date: 4/27/2004
Last modified by: IG
Comments: Not reported

SPILLS:

Year of Database: 2011
Case Number: 201104767

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S109731500

Who Took Spill: 205
Assigned To: 0
Report Date: 08/16/2011
Report Time: 16 11:04:00
Date Release: 08/16/2011
Time Responded: Not reported
Reported By: harold zinno ext. 101
Phone: 203 7567284
Representing: mercury fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: DIESEL FUEL
Qty: 8.00000000 (Gallons)
Emergency Measure: Not reported
Water Body: n/a
Discharger: Not reported
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2011-08-17 09:41:46
Sr Inspector: Cox, Michael
At Inspctor: **NO RESPONSE
User Stamp: cguzman
Comments: Not reported
Action: Contained
Other Action: Not reported
Action: Other
Other Action: speedi dry
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Hose Failure
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2011
Case Number: 201104974
Who Took Spill: 209
Assigned To: 0
Report Date: 08/26/2011
Report Time: 26 09:05:42
Date Release: 08/26/2011
Time Responded: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S109731500

Reported By: harold ext 101
Phone: 203 7567284
Representing: mercury fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 1 (Gallons)
Emergency Measure: Not reported
Water Body: Not reported
Discharger: saa
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2011-08-26 16:26:05
Sr Inspector: WELCH, THOMAS
At Inspctor: **NO RESPONSE
User Stamp: cguzman
Comments: Not reported
Action: Contained
Other Action: Not reported
Action: Sanded
Other Action: Not reported
Action: Cleaned
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Other
Other Cause: gas pump line was cut
Media ID: Ground Surface
Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2011
Case Number: 201108269
Who Took Spill: 205
Assigned To: 0
Report Date: 12/27/2011
Report Time: 27 11:05:48
Date Release: 12/27/2011
Time Responded: 30 11:05:00
Reported By: harold zinno ext. 101
Phone: 203 7567284
Representing: Mercury Fuel
Terminated: YES

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S109731500

Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: DIESEL FUEL
Qty: 0 (Gallons)
Emergency Measure: 20 oz
Water Body: n/a
Discharger: saa
Telephone: Not reported
Responsible Party: YES
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2011-12-28 16:22:03
Sr Inspector: Cox, Michael
At Inspctor: **NO RESPONSE
User Stamp: cguzman
Comments: Not reported
Action: Removed
Other Action: Not reported
Action: Contained
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: LOCAL FIRE DEPARTMENT
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Overfill
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2012
Case Number: 201200015
Who Took Spill: 205
Assigned To: 0
Report Date: 01/03/2012
Report Time: 03 10:10:38
Date Release: 01/03/2012
Time Responded: Not reported
Reported By: harold zinno ext 101
Phone: 203 7567284
Representing: mercury fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S109731500

Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 2 (Gallons)
Emergency Measure: Not reported
Water Body: n/a
Discharger: saa
Telephone: Not reported
Responsible Party: YES
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-01-03 10:15:24
Sr Inspector: Cox, Michael
At Inspctor: **NO RESPONSE
User Stamp: MCox
Comments: Not reported
Action: Removed
Other Action: Not reported
Action: Contained
Other Action: Not reported
Action: Sanded
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Overfill
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2012
Case Number: 201200139
Who Took Spill: 201
Assigned To: 0
Report Date: 01/09/2012
Report Time: 09 15:42:16
Date Release: 01/09/2012
Time Responded: Not reported
Reported By: harold zinnow ext 101
Phone: 203 7567284
Representing: mercury fuel
Terminated: Not reported
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 1 (Gallons)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S109731500

Emergency Measure: Not reported
Water Body: Not reported
Discharger: Not reported
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-01-10 15:59:30
Sr Inspector: Burkey, Rachael
At Inspctor: **NO RESPONSE
User Stamp: cguzman
Comments: Not reported
Action: Sanded
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Other
Other Cause: nozzle malfunction
Media ID: Ground Surface
Other Media: Not reported
Class ID: Commercial
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported

Year of Database: 2012
Case Number: 201201342
Who Took Spill: 208
Assigned To: 0
Report Date: 03/20/2012
Report Time: 20 14:04:17
Date Release: 03/20/2012
Time Responded: Not reported
Reported By: harold zinno ext 101
Phone: 203 7567284
Representing: mercury fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 1 (Gallons)
Emergency Measure: sanded
Water Body: Not reported
Discharger: Not reported
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-03-21 11:14:49

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S109731500

Sr Inspector: Monarca, Vincent
At Inspctor: **NO RESPONSE
User Stamp: GuzmanCa
Comments: Not reported
Action: Sanded
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: LOCAL FIRE DEPARTMENT
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Overfill
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Private
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported

Year of Database: 2012
Case Number: 201202243
Who Took Spill: 205
Assigned To: 0
Report Date: 05/08/2012
Report Time: 08 10:48:36
Date Release: 05/08/2012
Time Responded: 30 10:20:00
Reported By: Harold Zinno
Phone: 203 7567284
Representing: x101 Mercury Fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 0.01 (Gallons)
Emergency Measure: Not reported
Water Body: n/a
Discharger: saa
Telephone: Not reported
Responsible Party: YES
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-05-08 19:32:12
Sr Inspector: Cox, Michael
At Inspctor: **NO RESPONSE
User Stamp: GuzmanCa
Comments: Not reported
Action: Contained
Other Action: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S109731500

Action: Sanded
Other Action: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Overfill
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Private
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2012
Case Number: 201204319
Who Took Spill: 212
Assigned To: 0
Report Date: 08/09/2012
Report Time: 09 19:52:01
Date Release: 08/09/2012
Time Responded: Not reported
Reported By: 111
Phone: 203 9331616
Representing: West Haven FD
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: MOTOR OIL
Qty: 0.25 (Gallons)
Emergency Measure: Speedy-Dry applied.
Water Body: NONE
Discharger: Not reported
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-08-13 11:02:37
Sr Inspector: JOHNSTON, ALEXANDER
At Inspctor: **NO RESPONSE
User Stamp: guzmanca
Comments: Not reported

Action: Sanded
Other Action: Not reported
Agency ID: Local Police
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S109731500

DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: LOCAL FIRE DEPARTMENT
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: MV Accident
Other Cause: Not reported
Media ID: Ground Surface
Other Media: Not reported
Class ID: Private
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported

Year of Database: 2012
Case Number: 201205289
Who Took Spill: 205
Assigned To: 0
Report Date: 09/27/2012
Report Time: 27 11:53:40
Date Release: 09/27/2012
Time Responded: Not reported
Reported By: harold zino
Phone: 203 7567284
Representing: ext. 101 Mercury Fuel
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: GASOLINE
Qty: 1 (Gallons)
Emergency Measure: Not reported
Water Body: n/a
Discharger: saa
Telephone: Not reported
Responsible Party: YES
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-09-27 12:30:10
Sr Inspector: Cox, Michael
At Inspctor: **NO RESPONSE
User Stamp: Granillo
Comments: Not reported
Action: Cleaned
Other Action: Not reported
Action: Other
Other Action: SPEEDI DRY
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Cause ID: Overfill
Other Cause: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S109731500

Media ID: Other
Other Media: concrete
Class ID: Transportation
Other Class: Not reported
Class ID: Private
Other Class: Not reported
Release Type: petroleum
Other Release: Not reported
Waterbody: Other
Other Wtrbody: none

Year of Database: 2012
Case Number: 201205841
Who Took Spill: 203
Assigned To: 0
Report Date: 10/24/2012
Report Time: 24 21:18:58
Date Release: 10/24/2012
Time Responded: Not reported
Reported By: 131
Phone: 203 9331616
Representing: FD
Terminated: YES
Recovd (Total): 0
Total (Water): 0
Facility Status: CLOSED
Continuous Spill: False
Released Substance: ANTIFREEZE
Qty: 3 (Gallons)
Emergency Measure: Radiator Fluid, Speedi-dry
Water Body: None
Discharger: Not reported
Telephone: Not reported
Responsible Party: Not reported
RP Address 1: Not reported
RP City,St,Zip: CT
Historic: False
Waterbody: False
Time Stamp: 2012-10-26 14:30:53
Sr Inspector: SUSAN CABELL
At Inspctor: **NO RESPONSE
User Stamp: GuzmanCa
Comments: Not reported
Action: Sanded
Other Action: Not reported
Agency ID: Local Police
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: DEP Dispatch
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported
Agency ID: LOCAL FIRE DEPARTMENT
Other Agency: Not reported
DEP Bureau: Not reported
DEP Agency: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

(Continued)

S109731500

Cause ID: MV Accident
 Other Cause: Not reported
 Media ID: Ground Surface
 Other Media: Not reported
 Class ID: Private
 Other Class: Not reported
 Release Type: chemical
 Other Release: Not reported

39
SW
1/4-1/2
0.449 mi.
2370 ft.

ACE CONSTRUCTION COMPANY
16 HAMILTON STREET
WEST HAVEN, CT

SDADB S104189095
N/A

Relative:
Lower

Site Discovery and Assessment:

Actual:
135 ft.

Facility ID: 5352
 Rem Master ID: 4965
 PTP Id: 2175
 WPC Number: Not reported
 Postal District: Not reported
 Latitude: Not reported
 Longitude: Not reported
 Lat/Long Determined By: Not reported
 Ground Water Quality Classification: Not reported
 Surface Water Quality Classification: Not reported
 Waste Type: Not reported
 Disposal: Not reported
 Sample Data Available: False
 Updated By: Not reported
 Update Program: Not reported
 Updated: Not reported
 Date Created: Not reported
 Duplicate: False
 EPA CERCLIS Id: Not reported
 Number EPA RCRIS Id: Not reported
 Site on EPA's CERCLIS: Not reported
 Site Archived from CERCLIS: Not reported
 Archive Date: Not reported
 EPA's Removal at Site: Not reported
 Deferred to another EPA Program: Not reported
 EPA Env Priority Initiative Site: Not reported
 Federal Facility: Not reported
 Site on EPA's National Priority List: Not reported
 Part of an NPL site: Not reported
 RCRA Generator Status: Not reported
 RCRA Permit Status: Not reported
 Referral Id: 5532
 Source of referral: PTP
 Date Received: 11/4/1993
 Staff Assigned: Not reported
 Remediation Program: PTP
 Date dt_assigned: Not reported
 Remediation Complete Approved DEP/Verified by LEP: 11/4/1993
 Outcome: PTP
 Remedial Id: Not reported
 PTP Id: Not reported
 Remediation Program: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

ACE CONSTRUCTION COMPANY (Continued)

S104189095

Remediation Program Entered:	Not reported
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date dt_assign:	Not reported
Project Phase:	Not reported
Order issued:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Remedial Investigation Start:	Not reported
Remedial Investigation Completed:	Not reported
Remedial Design Start:	Not reported
Remedial Design complet:	Not reported
Remedial Action Start:	Not reported
Remedial Action Completed:	Not reported
Date Oper/ maintenance Started:	Not reported
GW monitoring:	Not reported
Remediation complete Approved DEP/Verified by LEP:	Not reported
Order Id:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Staff Assigned:	Not reported
Type of Order:	Not reported
Order Respondent:	Not reported
Admin Appeal Date:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Final Order:	Not reported
Date of Court Appeal:	Not reported
Date of Court Ruling:	Not reported
Date of Court Ruling:	Not reported
Date Order Modified:	Not reported
Date Referred to AG:	Not reported
Judgement:	Not reported
Date of AGR judgement:	Not reported
Penalty assessed:	Not reported
Order Complete:	Not reported
In compliance:	Not reported
Comments:	Not reported

**40
 NE
 1/4-1/2
 0.461 mi.
 2434 ft.**

**FOREST THEATER
 10 FOREST ROAD
 WEST HAVEN, CT 6516**

**US BROWNFIELDS 1012230838
 FINDS N/A**

**Relative:
 Lower**

US BROWNFIELDS:
 Recipient name: West Haven, City of
 Grant type: Assessment
 Actual: Property name: FOREST THEATER
 62 ft. Property #: Not reported
 Parcel size: 1
 Property Description: Not reported
 Latitude: 41.2952052
 Longitude: -72.9591107
 HCM label: Address Matching-House Number
 Map scale: Not reported
 Point of reference: Entrance Point of a Facility or Station
 Datum: North American Datum of 1983

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOREST THEATER (Continued)

1012230838

ACRES property ID: 110342
Start date: Not reported
Completed date: Not reported
Acres cleaned up: Not reported
Cleanup funding: Not reported
Cleanup funding source: Not reported
Assessment funding: 10049
Assessment funding source: US EPA - Brownfields Assessment Cooperative Agreement
Redevelopment funding: Not reported
Redev. funding source: Not reported
Redev. funding entity name: Not reported
Redevelopment start date: Not reported
Assessment funding entity: EPA
Cleanup funding entity: Not reported
Grant type: H
Accomplishment type: Phase II Environmental Assessment
Accomplishment count: 0
Cooperative agreement #: 97173001
Ownership entity: Private
Current owner: Not reported
Did owner change: Not reported
Cleanup required: Unknown
Video available: Not reported
Photo available: Not reported
Institutional controls required: U
IC Category proprietary controls: Not reported
IC cat. info. devices: Not reported
IC cat. gov. controls: Not reported
IC cat. enforcement permit tools: Not reported
IC in place date: Not reported
IC in place: Not reported
State/tribal program date: Not reported
State/tribal program ID: Not reported
State/tribal NFA date: Not reported
Air contaminated: Not reported
Air cleaned: Not reported
Asbestos found: Not reported
Asbestos cleaned: Not reported
Controlled substance found: Not reported
Controlled substance cleaned: Not reported
Drinking water affected: Not reported
Drinking water cleaned: Not reported
Groundwater affected: Y
Groundwater cleaned: Not reported
Lead contaminant found: Not reported
Lead cleaned up: Not reported
No media affected: Not reported
Unknown media affected: Not reported
Other cleaned up: Not reported
Other metals found: Not reported
Other metals cleaned: Not reported
Other contaminants found: Not reported
Other contams found description: Not reported
PAHs found: Not reported
PAHs cleaned up: Not reported
PCBs found: Not reported
PCBs cleaned up: Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

FOREST THEATER (Continued)

1012230838

Petro products found: Not reported
 Petro products cleaned: Not reported
 Sediments found: Not reported
 Sediments cleaned: Not reported
 Soil affected: Y
 Soil cleaned up: Not reported
 Surface water cleaned: Not reported
 Unknown found: Not reported
 VOCs found: Not reported
 VOCs cleaned: Not reported
 Cleanup other description: Not reported
 Num. of cleanup and re-dev. jobs: Not reported
 Past use greenspace acreage: Not reported
 Past use residential acreage: Not reported
 Past use commercial acreage: Not reported
 Past use industrial acreage: Not reported
 Future use greenspace acreage: Not reported
 Future use residential acreage: Not reported
 Future use commercial acreage: Not reported
 Future use industrial acreage: Not reported
 Greenspace acreage and type: Not reported
 Superfund Fed. landowner flag: Not reported

FINDS:

Registry ID: 110040723615

Environmental Interest/Information System

US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES)
 is an federal online database for Brownfields Grantees to
 electronically submit data directly to EPA.

41
SSW
1/4-1/2
0.470 mi.
2482 ft.

RESIDENTIAL NEIGHBORHOOD
COLLINS DRIVE
WEST HAVEN, CT 06516

LUST S105739171
CPCS N/A

Relative:
Lower

LUST:

Actual:
99 ft.

LUST Id: 0
 UST Facility Id: Not reported
 LUST Case Id: 45616
 Lust Status: Lust Completed
 Processing Status: Not reported
 EPA Reportable: False
 Motor Fuel: False
 Diesel: False
 Gasoline: False
 Other: False
 Other Release: Not reported
 No Release: False
 Leak: False
 Tank: False
 Piping: False
 Overfill: False
 Removal: False

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESIDENTIAL NEIGHBORHOOD (Continued)

S105739171

Incident Date: 1997-04-08 00:00:00
Entry Date: Not reported
Site Case Id: 9701674
UST Site Id: Not reported
Cost Recovery Spill Case #: Not reported
Old SITS Number: Not reported
Case Log Id: Not reported
Monthly Report Id: 0
UST Owner Id: Not reported
LUST Owner Id: Not reported
UST Event Id: 4843
Contact Info: Not reported
Contact EMail: Not reported
Site Contact City,St,Zip: UNKNOWN
2nd Contact: Not reported
2nd Contact EMail: Not reported
2nd Contact Address: Not reported
2nd Contact City,St,Zip: UNKNOWN
2nd Contact Address 2: Not reported
2nd Contact City 2: Not reported
2nd Contact Phone Number: Not reported
2nd Contact Fax Number: Not reported
2nd Contact Type: Not reported
Facility City Num: 156
Site Contact: Not reported
Site Contact Address: Not reported
Site Contact Add 2: Not reported
Site Contact City 2: Not reported
Site Contact Phone: Not reported
Site Contact Fax: Not reported
Site Contact Type: Not reported
Department Contact 1: Not reported
Department Contact 2: Not reported
Referral Source: Not reported
Offsite Source: False
Date Referred: Not reported
Emergency: False
Private Heating Fuel: True
Commercial Heating Fuel: False
Commercial HF < 2100 Gal.: False
Commercial HF > 2100 Gal.: False
Commercial HF - Size Unk: False
No LUST Site: False
Cost Recvry Prgm Candidate: False
OCSR Complete: True
Follow Up Flag: False
Alternate Water Supply: False
Relocation: False
Responsible Party: False
Responsible EMail: Not reported
Resp Party Name: Not reported
Resp Party Address: Not reported
Resp Party City,St,Zip: Not reported
Resp Party Town Number: UNKNOWN
Resp Party Phone: Not reported
Resp Party Fax: Not reported
Resp Party Name 2: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESIDENTIAL NEIGHBORHOOD (Continued)

S105739171

Resp Party Address 2: Not reported
Resp Party Phone 2: Not reported
Investigator Id: 35
Follow Update: Not reported
Area Lextent: Not reported
Annual Precipitation: Not reported
Affected Population: Not reported
Population Setting: Not reported
Ground Water Direction: Not reported
Ground Water Gradient: Not reported
Hydro Basin: Not reported
Drastic: Not reported
Geo Setting: Not reported
Ground Water Classification: Not reported
Receptor: Not reported
Ground Water Flow Direction: Not reported
Ground Water Depth: Not reported
Areas Of Concern: Not reported
Free Product Inches: Not reported
Fund Date: Not reported
Fund Planned: No
Fund Obligated: No
Fund Outlaid: No
Fund Judgment: No
Fund Recovered: No
Cellar Borings: False
Install Micro Wells: False
Ground Water Sample: False
Soil Sample: False
Soil Gas: False
Site Inspect: False
Soil Excavate: False
Geo Probe: False
Survey: False
Potable Well Sample: False
Sample MWS: False
Ground Water Gauging: False
Soil Venting: False
Active: False
NOV Action: None
NOV Issued: Not reported
NOV Due: Not reported
NOV Received: Not reported
NOV Closed: Not reported
NOV Disc Date: Not reported
NOV Issued Date: Not reported
NOV Compliance Sched: Not reported
NOV Admin Order: Not reported
NOV Referred To Ag: Not reported
Stop All NOV Actions: False
Release Invest Rpt: False
DEP App Letter 1: False
Correct Action Plan: False
DEP App Letter 2: False
Rem Sys Install: False
Rem Sys Install Date: Not reported
Closure Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

RESIDENTIAL NEIGHBORHOOD (Continued)

S105739171

Rem Sys Monitoring Rpt: False
Qrtly Gwater Mon Rpts: False
Closure Req Rpt: False
DEP Closure Letter: False
Referred To: Not reported
No Wells: Not reported
Lph Wells: Not reported
User Stamp: Not reported
Date Stamp: Not reported
Correspondence: Not reported
Environmental Impact: Not reported
FollowUp: Not reported
GW Comments: Not reported
Location Desc: Not reported
NOV Comments: Not reported
Release Desc: Not reported
Running Comments: #2 HEATING OIL, , removed 275 lust, no fp, removing soil, sampling, fm onsite
Work Performed: Not reported

CPCS:

Site Type: LUST
Lust Status: Pending
PTP Form: Not reported
Program: Not reported
Comments: Not reported
Site Type Definition: Leaking Underground Storage Tanks Pending

F42
SE
1/4-1/2
0.475 mi.
2506 ft.

WEST HAVEN CHRYSLER PLYMOUTH INC
975 CAMPBELL AVE
WEST HAVEN, CT 06516

RCRA NonGen / NLR
FINDS
SDADB

1000392163
CTD174336370

Site 1 of 2 in cluster F

Relative:
Lower

RCRA NonGen / NLR:

Date form received by agency: 07/19/1988
Facility name: WEST HAVEN CHRYSLER PLYMOUTH INC
Facility address: 975 CAMPBELL AVE
WEST HAVEN, CT 06516
EPA ID: CTD174336370
Mailing address: CAMPBELL AVE
WEST HAVEN, CT 06516
Contact: JOSEPH JARVSINSKY JR
Contact address: 975 CAMPBELL AVE
WEST HAVEN, CT 06516
Contact country: US
Contact telephone: (203) 934-3455
Contact email: Not reported
EPA Region: 01
Land type: Private
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Actual:
62 ft.

Owner/Operator Summary:

Owner/operator name: RODIA JOHN A SR
Owner/operator address: OWNERSTREET
OWNERCITY, CT 99999

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST HAVEN CHRYSLER PLYMOUTH INC (Continued)

1000392163

Owner/operator country: Not reported
Owner/operator telephone: (203) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:

Waste code: D000
Waste name: Not Defined

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 03/25/1998
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110006655397

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WEST HAVEN CHRYSLER PLYMOUTH INC (Continued)

1000392163

corrective action activities required under RCRA.

Site Discovery and Assessment:

Facility ID:	2779
Rem Master ID:	3166
PTP Id:	Not reported
WPC Number:	Not reported
Postal District:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Lat/Long Determined By:	Not reported
Ground Water Quality Classification:	Not reported
Surface Water Quality Classification:	Not reported
Waste Type:	HYDRO/OIL
Disposal:	UST
Sample Data Available:	False
Updated By:	ROBINSON, R.
Update Program:	PTP
Updated:	4/25/1996
Date Created:	Not reported
Duplicate:	False
EPA CERCLIS Id:	Not reported
Number EPA RCRIS Id:	Not reported
Site on EPA's CERCLIS:	Not reported
Site Archived from CERCLIS:	Not reported
Archive Date:	Not reported
EPA's Removal at Site:	Not reported
Deferred to another EPA Program:	Not reported
EPA Env Priority Initiative Site:	Not reported
Federal Facility:	Not reported
Site on EPA's National Priority List:	Not reported
Part of an NPL site:	Not reported
RCRA Generator Status:	Not reported
RCRA Permit Status:	Not reported
Referral Id:	2592
Source of referral:	PTP
Date Received:	4/25/1996
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date dt_assigned:	Not reported
Remediation Complete Approved DEP/Verified by LEP:	4/29/1996
Outcome:	PTP
Remedial Id:	Not reported
PTP Id:	Not reported
Remediation Program:	Not reported
Remediation Program Entered:	Not reported
Staff Assigned:	Not reported
Remediation Program:	Not reported
Date dt_assign:	Not reported
Project Phase:	Not reported
Order issued:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Remedial Investigation Start:	Not reported
Remedial Investigation Completed:	Not reported
Remedial Design Start:	Not reported

Map ID
 Direction
 Distance
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

WEST HAVEN CHRYSLER PLYMOUTH INC (Continued)

1000392163

Remedial Design complet:	Not reported
Remedial Action Start:	Not reported
Remedial Action Completed:	Not reported
Date Oper/ maintenance Started:	Not reported
GW monitoring:	Not reported
Remediation complete Approved DEP/Verified by LEP:	Not reported
Order Id:	Not reported
Order Number:	Not reported
Date order issued:	Not reported
Staff Assigned:	Not reported
Type of Order:	Not reported
Order Respondent:	Not reported
Admin Appeal Date:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Admin Appeal Ruling:	Not reported
Date of Final Order:	Not reported
Date of Court Appeal:	Not reported
Date of Court Ruling:	Not reported
Date of Court Ruling:	Not reported
Date Order Modified:	Not reported
Date Referred to AG:	Not reported
Judgement:	Not reported
Date of AGR judgement:	Not reported
Penalty assessed:	Not reported
Order Complete:	Not reported
In compliance:	Not reported
Comments:	Not reported

SDADB:

Waste Id:	11
Waste Type:	HYDRO/OIL
Description:	Hydrocarbons and/or Fuel Oil

**F43
 SE
 1/4-1/2
 0.475 mi.
 2506 ft.**

**WEST HAVEN CHRYSLER-PLYMOUTH/ANDRADE MOT
 975 CAMPBELL AVENUE
 WEST HAVEN, CT 06516**
 Site 2 of 2 in cluster F

**CPCS S108305506
 N/A**

**Relative:
 Lower**

Relative:	CPCS:	
Lower	Site Type:	Projects
	Lust Status:	Not reported
Actual:	PTP Form:	III
62 ft.	Program:	Property Transfer Program
	Comments:	Projects
	Site Type Definition:	Property Transfer Form III

Count: 10 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NEW HAVEN	S109752772	CT STATE OF DOT	RT 10	06519	MANIFEST
NEW HAVEN	U004106906	YALE UNIVERSITY	55 LOCK ST	06511	LUST, UST, SPILLS
NEW HAVEN	S109743385	THE NINTH SQUARE	224 ORANGE AVE	06516	MANIFEST
NEW HAVEN	S109743956	STATE OF CONNECTICUT-DOT	STATE ST	06511	MANIFEST
WEST HAVEN	S104255404	PAINT MART	RT 34		SDADB
WEST HAVEN	S109720880	TEXACO STATION	BOSTON POST RD		MANIFEST
WEST HAVEN	S111316304	BUDGET TRANSMISSION	781 BOSTON RD		MANIFEST
WEST HAVEN	S109745610	UNIVERSITY OF NEW HAVEN	BUCKMAN HALL ORANGE ST	06516	MANIFEST
WEST HAVEN	S106660586		FRONT ST		SWF/LF
WEST HAVEN	S106660585		SPRING ST		SWF/LF

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 02/01/2013	Source: EPA
Date Data Arrived at EDR: 03/01/2013	Telephone: N/A
Date Made Active in Reports: 03/13/2013	Last EDR Contact: 03/01/2013
Number of Days to Update: 12	Next Scheduled EDR Contact: 04/22/2013
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 02/01/2013	Source: EPA
Date Data Arrived at EDR: 03/01/2013	Telephone: N/A
Date Made Active in Reports: 03/13/2013	Last EDR Contact: 03/01/2013
Number of Days to Update: 12	Next Scheduled EDR Contact: 04/22/2013
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 02/01/2013	Source: EPA
Date Data Arrived at EDR: 03/01/2013	Telephone: N/A
Date Made Active in Reports: 03/13/2013	Last EDR Contact: 03/01/2013
Number of Days to Update: 12	Next Scheduled EDR Contact: 04/22/2013
	Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/04/2013	Source: EPA
Date Data Arrived at EDR: 03/01/2013	Telephone: 703-412-9810
Date Made Active in Reports: 03/13/2013	Last EDR Contact: 03/01/2013
Number of Days to Update: 12	Next Scheduled EDR Contact: 06/10/2013
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 07/31/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/09/2012	Telephone: 703-603-8704
Date Made Active in Reports: 12/20/2012	Last EDR Contact: 01/11/2013
Number of Days to Update: 72	Next Scheduled EDR Contact: 04/22/2013
	Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/05/2013	Source: EPA
Date Data Arrived at EDR: 03/01/2013	Telephone: 703-412-9810
Date Made Active in Reports: 03/13/2013	Last EDR Contact: 01/04/2013
Number of Days to Update: 12	Next Scheduled EDR Contact: 03/11/2013
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 6

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/08/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/19/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/26/2012	Telephone: 703-603-0695
Date Made Active in Reports: 02/27/2013	Last EDR Contact: 03/11/2013
Number of Days to Update: 63	Next Scheduled EDR Contact: 06/24/2013
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/19/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/26/2012	Telephone: 703-603-0695
Date Made Active in Reports: 02/27/2013	Last EDR Contact: 03/11/2013
Number of Days to Update: 63	Next Scheduled EDR Contact: 06/24/2013
	Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 02/18/2013
Number of Days to Update: 31	Next Scheduled EDR Contact: 06/03/2013
	Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2012	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/17/2013	Telephone: 202-267-2180
Date Made Active in Reports: 02/15/2013	Last EDR Contact: 01/17/2013
Number of Days to Update: 29	Next Scheduled EDR Contact: 04/15/2013
	Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Inventory of Hazardous Disposal Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 04/23/2010	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 04/23/2010	Telephone: 860-424-3705
Date Made Active in Reports: 05/25/2010	Last EDR Contact: 01/07/2013
Number of Days to Update: 32	Next Scheduled EDR Contact: 04/22/2013
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SDADB: Site Discovery and Assessment Database

All sites reported to Permitting, Enforcement, and Remediation Division where it is suspected that hazardous waste may have been disposed or sites that are eligible for listing on the State Inventory of Hazardous Waste Disposal Sites.

Date of Government Version: 04/23/2010	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 04/23/2010	Telephone: 860-424-3705
Date Made Active in Reports: 05/25/2010	Last EDR Contact: 01/21/2013
Number of Days to Update: 32	Next Scheduled EDR Contact: 04/22/2013
	Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: List of Landfills/Transfer Stations

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/24/2011	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 05/03/2011	Telephone: 860-424-3366
Date Made Active in Reports: 06/02/2011	Last EDR Contact: 02/01/2013
Number of Days to Update: 30	Next Scheduled EDR Contact: 05/13/2013
	Data Release Frequency: Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 01/31/2013	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 02/07/2013	Telephone: 860-424-3376
Date Made Active in Reports: 03/14/2013	Last EDR Contact: 01/07/2013
Number of Days to Update: 35	Next Scheduled EDR Contact: 04/22/2013
	Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 08/01/2012	Source: EPA Region 10
Date Data Arrived at EDR: 08/02/2012	Telephone: 206-553-2857
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 10/30/2012
Number of Days to Update: 75	Next Scheduled EDR Contact: 05/13/2013
	Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012	Source: EPA Region 8
Date Data Arrived at EDR: 08/28/2012	Telephone: 303-312-6271
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 03/21/2013
Number of Days to Update: 49	Next Scheduled EDR Contact: 05/13/2013
	Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011	Source: EPA Region 6
Date Data Arrived at EDR: 09/13/2011	Telephone: 214-665-6597
Date Made Active in Reports: 11/11/2011	Last EDR Contact: 03/21/2013
Number of Days to Update: 59	Next Scheduled EDR Contact: 05/13/2013
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 09/06/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/07/2012	Telephone: 415-972-3372
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 01/28/2013
Number of Days to Update: 39	Next Scheduled EDR Contact: 05/13/2013
	Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/12/2012	Source: EPA Region 1
Date Data Arrived at EDR: 05/09/2012	Telephone: 617-918-1313
Date Made Active in Reports: 07/10/2012	Last EDR Contact: 02/01/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: 05/13/2013
	Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/17/2012	Source: EPA Region 7
Date Data Arrived at EDR: 08/28/2012	Telephone: 913-551-7003
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 01/28/2013
Number of Days to Update: 49	Next Scheduled EDR Contact: 05/13/2013
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 12/14/2011	Source: EPA Region 4
Date Data Arrived at EDR: 12/15/2011	Telephone: 404-562-8677
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 01/28/2013
Number of Days to Update: 26	Next Scheduled EDR Contact: 05/13/2013
	Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

UST: Underground Storage Tank Data

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 01/15/2013	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 01/15/2013	Telephone: 860-424-3376
Date Made Active in Reports: 01/25/2013	Last EDR Contact: 03/04/2013
Number of Days to Update: 10	Next Scheduled EDR Contact: 06/17/2013
	Data Release Frequency: Semi-Annually

AST: Marine Terminals and Tank Information

A listing of bulk petroleum facilities that receive petroleum by a vessel.

Date of Government Version: 07/01/2012	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 08/02/2012	Telephone: 860-424-3233
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 02/25/2013
Number of Days to Update: 47	Next Scheduled EDR Contact: 06/10/2013
	Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/06/2012
Date Data Arrived at EDR: 09/07/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 39

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/27/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 08/17/2012
Date Data Arrived at EDR: 08/28/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 49

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/10/2011
Date Data Arrived at EDR: 05/11/2011
Date Made Active in Reports: 06/14/2011
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 03/21/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations).

Date of Government Version: 12/14/2011
Date Data Arrived at EDR: 12/15/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 26

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/12/2012
Date Data Arrived at EDR: 05/02/2012
Date Made Active in Reports: 07/16/2012
Number of Days to Update: 75

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 02/01/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/02/2012
Date Data Arrived at EDR: 08/03/2012
Date Made Active in Reports: 11/05/2012
Number of Days to Update: 94

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 03/19/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 08/01/2012
Date Data Arrived at EDR: 08/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 75

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Quarterly

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/14/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Listing

An Engineered Control is a permanent physical structure designed to safely isolate pollutants which would otherwise not comply with the self-implementing remedial options allowed in the Connecticut Remediation Standard Regulations (RSRs). The ECGD includes a description of what is eligible to be considered as an Engineered Control under section 22a-133k-2(f)(2) of the RSRs, a description of the information necessary for the preparation of complete and approvable applications, a step-by-step outline of the review and approval process, and supplemental resources provided in the appendices.

Date of Government Version: 01/14/2013
Date Data Arrived at EDR: 02/05/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 37

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3000
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

AUL: ELUR Sites

Environmental Land Use Restriction sites.

Date of Government Version: 02/19/2013
Date Data Arrived at EDR: 02/19/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 23

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3912
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

VCP: Voluntary Remediation Sites

Sites involved in the Voluntary Remediation Program.

Date of Government Version: 02/19/2013
Date Data Arrived at EDR: 02/19/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 23

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/28/2012
Date Data Arrived at EDR: 10/02/2012
Date Made Active in Reports: 10/16/2012
Number of Days to Update: 14

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 01/04/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS 2: Brownfields Inventory

A brownfield site is generally defined as "real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant or contaminant?"

Date of Government Version: 11/30/2004
Date Data Arrived at EDR: 06/26/2009
Date Made Active in Reports: 07/09/2009
Number of Days to Update: 13

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 12/18/2012
Next Scheduled EDR Contact: 04/08/2013
Data Release Frequency: Varies

BROWNFIELDS: Brownfields Inventory

CBRA has identified over 200 brownfield sites eligible for redevelopment. In most cases these are prime properties for commercial or industrial use. CBRA's grants, assistance and financing lower the financial risks and eliminate the legal, regulatory and environmental risks of redevelopment.

Date of Government Version: 01/17/2013
Date Data Arrived at EDR: 01/22/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 51

Source: Connecticut Brownfields Redevelopment Authority
Telephone: 860-258-7833
Last EDR Contact: 03/25/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/10/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 12/20/2012
Number of Days to Update: 9

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/26/2013
Next Scheduled EDR Contact: 07/08/2013
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWRCY: Recycling Facilities

A listing of recycling facilities.

Date of Government Version: 12/31/2010
Date Data Arrived at EDR: 06/02/2011
Date Made Active in Reports: 06/27/2011
Number of Days to Update: 25

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3223
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 11/14/2012
Date Data Arrived at EDR: 12/11/2012
Date Made Active in Reports: 02/15/2013
Number of Days to Update: 66

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/04/2013
Next Scheduled EDR Contact: 06/17/2013
Data Release Frequency: Quarterly

CDL: Clandestine Drug Lab Listing

A listing of clandestine drug lab locations included in the Spills database.

Date of Government Version: 01/28/2013
Date Data Arrived at EDR: 02/01/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 41

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3361
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/16/2012
Date Data Arrived at EDR: 03/26/2012
Date Made Active in Reports: 06/14/2012
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 01/28/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

LIENS: Environmental Liens Listing

A listing of environmental liens placed by the Cost Recovery Program.

Date of Government Version: 12/21/2012
Date Data Arrived at EDR: 12/26/2012
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 20

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3120
Last EDR Contact: 03/19/2013
Next Scheduled EDR Contact: 06/03/2013
Data Release Frequency: Varies

CT PROPERTY: Property Transfer Filings

A listing of sites that meet the definition of a hazardous waste establishment. They can be generators, dry cleaners, furniture strippers, etc. These sites have been sold to another owner.

Date of Government Version: 02/19/2013
Date Data Arrived at EDR: 02/19/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 23

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3705
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/27/2013
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 55

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Annually

SPILLS: Oil & Chemical Spill Database

Oil and Chemical Spill Data.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/28/2013
Date Data Arrived at EDR: 02/01/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 41

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3024
Last EDR Contact: 01/07/2013
Next Scheduled EDR Contact: 04/22/2013
Data Release Frequency: Semi-Annually

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/12/2013
Date Data Arrived at EDR: 02/15/2013
Date Made Active in Reports: 02/27/2013
Number of Days to Update: 12

Source: Environmental Protection Agency
Telephone: (888) 372-7341
Last EDR Contact: 02/15/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 02/05/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 03/11/2013
Next Scheduled EDR Contact: 06/24/2013
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 01/15/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 57

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/02/2012	Source: EPA
Date Data Arrived at EDR: 12/11/2012	Telephone: 703-416-0223
Date Made Active in Reports: 03/13/2013	Last EDR Contact: 03/13/2013
Number of Days to Update: 92	Next Scheduled EDR Contact: 06/24/2013
	Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010	Source: Department of Energy
Date Data Arrived at EDR: 10/07/2011	Telephone: 505-845-0011
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 02/25/2013
Number of Days to Update: 146	Next Scheduled EDR Contact: 06/10/2013
	Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/18/2011	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 09/08/2011	Telephone: 303-231-5959
Date Made Active in Reports: 09/29/2011	Last EDR Contact: 03/06/2013
Number of Days to Update: 21	Next Scheduled EDR Contact: 06/17/2013
	Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 09/01/2011	Telephone: 202-566-0250
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 02/26/2013
Number of Days to Update: 131	Next Scheduled EDR Contact: 06/10/2013
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006	Source: EPA
Date Data Arrived at EDR: 09/29/2010	Telephone: 202-260-5521
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 03/26/2013
Number of Days to Update: 64	Next Scheduled EDR Contact: 07/08/2013
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 02/25/2013
Number of Days to Update: 25	Next Scheduled EDR Contact: 06/10/2013
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 02/25/2013
Number of Days to Update: 25	Next Scheduled EDR Contact: 06/10/2013
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 01/28/2013
Number of Days to Update: 77	Next Scheduled EDR Contact: 05/13/2013
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/10/2011	Telephone: 202-564-5088
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 01/17/2013
Number of Days to Update: 61	Next Scheduled EDR Contact: 04/29/2013
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/01/2010	Source: EPA
Date Data Arrived at EDR: 11/10/2010	Telephone: 202-566-0500
Date Made Active in Reports: 02/16/2011	Last EDR Contact: 01/16/2013
Number of Days to Update: 98	Next Scheduled EDR Contact: 04/29/2013
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/21/2011	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/15/2011	Telephone: 301-415-7169
Date Made Active in Reports: 09/13/2011	Last EDR Contact: 03/11/2013
Number of Days to Update: 60	Next Scheduled EDR Contact: 06/24/2013
	Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/02/2012	Telephone: 202-343-9775
Date Made Active in Reports: 11/05/2012	Last EDR Contact: 01/09/2013
Number of Days to Update: 34	Next Scheduled EDR Contact: 04/22/2013
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 10/23/2011	Source: EPA
Date Data Arrived at EDR: 12/13/2011	Telephone: (617) 918-1111
Date Made Active in Reports: 03/01/2012	Last EDR Contact: 03/12/2013
Number of Days to Update: 79	Next Scheduled EDR Contact: 06/24/2013
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

RMP: Risk Management Plans

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/08/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/25/2012	Telephone: 202-564-8600
Date Made Active in Reports: 07/10/2012	Last EDR Contact: 01/28/2013
Number of Days to Update: 46	Next Scheduled EDR Contact: 05/13/2013
	Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2009	Source: EPA/NTIS
Date Data Arrived at EDR: 03/01/2011	Telephone: 800-424-9346
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 02/26/2013
Number of Days to Update: 62	Next Scheduled EDR Contact: 06/10/2013
	Data Release Frequency: Biennially

LWDS: Connecticut Leachate and Wastewater Discharge Sites

The Leachate and Waste Water Discharge Inventory Data Layer (LWDS) includes point locations digitized from Leachate and Wastewater Discharge Source maps compiled by the Connecticut DEP. These maps locate surface and groundwater discharges that (1) have received a waste water discharge permit from the state or (2) are historic and now defunct waste sites or (3) are locations of accidental spills, leaks, or discharges of a variety of liquid or solid wastes.

Date of Government Version: 07/17/2009	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 10/21/2009	Telephone: N/A
Date Made Active in Reports: 10/30/2009	Last EDR Contact: 01/14/2013
Number of Days to Update: 9	Next Scheduled EDR Contact: 04/29/2013
	Data Release Frequency: Varies

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/18/2013	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 02/18/2013	Telephone: 860-424-3375
Date Made Active in Reports: 03/21/2013	Last EDR Contact: 02/18/2013
Number of Days to Update: 31	Next Scheduled EDR Contact: 06/03/2013
	Data Release Frequency: Annually

DRYCLEANERS: Drycleaner Facilities

A listing of drycleaner facility locations.

Date of Government Version: 07/18/2008	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 08/08/2008	Telephone: 860-424-3026
Date Made Active in Reports: 08/27/2008	Last EDR Contact: 03/18/2013
Number of Days to Update: 19	Next Scheduled EDR Contact: 07/01/2013
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENFORCEMENT: Enforcement Case Listing

The types of enforcement actions included are administrative consent orders, final unilateral orders and final dispositions of civil cases through the Attorney General's Office.

Date of Government Version: 01/24/2013
Date Data Arrived at EDR: 01/25/2013
Date Made Active in Reports: 03/14/2013
Number of Days to Update: 48

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3265
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

NPDES: Wastewater Permit Listing

A listing of permits issued by the DEP.

Date of Government Version: 01/02/2013
Date Data Arrived at EDR: 01/02/2013
Date Made Active in Reports: 01/15/2013
Number of Days to Update: 13

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3832
Last EDR Contact: 12/28/2012
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Varies

AIRS: Permitted Air Sources Listing

A listing of permitted air sources in Connecticut.

Date of Government Version: 05/15/2012
Date Data Arrived at EDR: 05/15/2012
Date Made Active in Reports: 05/31/2012
Number of Days to Update: 16

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3026
Last EDR Contact: 02/11/2013
Next Scheduled EDR Contact: 05/13/2013
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/17/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Varies

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 12/02/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/13/2013
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: 04/15/2013
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 07/31/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/13/2012	Telephone: 617-520-3000
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 02/12/2013
Number of Days to Update: 36	Next Scheduled EDR Contact: 05/27/2013
	Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/18/2012	Telephone: 703-308-4044
Date Made Active in Reports: 05/25/2012	Last EDR Contact: 02/15/2013
Number of Days to Update: 7	Next Scheduled EDR Contact: 05/27/2013
	Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 06/21/2012	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 06/25/2012	Telephone: 860-418-5930
Date Made Active in Reports: 07/11/2012	Last EDR Contact: 03/25/2013
Number of Days to Update: 16	Next Scheduled EDR Contact: 07/08/2013
	Data Release Frequency: Varies

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 11/15/2012	Source: EPA
Date Data Arrived at EDR: 11/16/2012	Telephone: 202-564-5962
Date Made Active in Reports: 02/15/2013	Last EDR Contact: 12/28/2012
Number of Days to Update: 91	Next Scheduled EDR Contact: 04/15/2013
	Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 11/15/2012	Source: EPA
Date Data Arrived at EDR: 11/16/2012	Telephone: 202-564-5962
Date Made Active in Reports: 02/15/2013	Last EDR Contact: 12/28/2012
Number of Days to Update: 91	Next Scheduled EDR Contact: 04/15/2013
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 11/20/2012	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/30/2012	Telephone: 202-566-1917
Date Made Active in Reports: 02/27/2013	Last EDR Contact: 02/19/2013
Number of Days to Update: 89	Next Scheduled EDR Contact: 06/03/2013
	Data Release Frequency: Quarterly

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 01/17/2013
Number of Days to Update: 339	Next Scheduled EDR Contact: 04/29/2013
	Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 02/01/2013
Number of Days to Update: 83	Next Scheduled EDR Contact: 05/13/2013
	Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 01/15/2013
Number of Days to Update: 76	Next Scheduled EDR Contact: 04/29/2013
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/03/2011	Telephone: N/A
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 03/15/2013
Number of Days to Update: 77	Next Scheduled EDR Contact: 06/24/2013
	Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

A listing containing RCRA financial assurance information submitted on behalf of the CT DEP's Program Analysis Group of the Waste Engineering and Enforcement Division.

Date of Government Version: 06/21/2012	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 06/25/2012	Telephone: 860-418-5930
Date Made Active in Reports: 07/11/2012	Last EDR Contact: 03/25/2013
Number of Days to Update: 16	Next Scheduled EDR Contact: 07/08/2013
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CPCS: Contaminated or Potentially Contaminated Sites

A list of Contaminated or Potentially Contaminated Sites within Connecticut. This list represents the "Hazardous Waste Facilities," as defined in Section 22a-134f of the Connecticut General Statutes (CGS). The list contains the following types of sites: Sites listed on the Inventory of Hazardous Waste Disposal Sites; Sites subject to the Property Transfer Act; Sites at which underground storage tanks are known to have leaked; Sites at which hazardous waste subject to the RCRA; Sites that are included in EPA's (CERCLIS); Sites that are the subject of an order issued by the Commissioner of DEP that requires investigation and remediation of a potential or known source of pollution; and Sites that have entered into one of the Department's Voluntary Remediation Programs.

Date of Government Version: 06/04/2012	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 06/05/2012	Telephone: 860-424-3766
Date Made Active in Reports: 07/11/2012	Last EDR Contact: 01/07/2013
Number of Days to Update: 36	Next Scheduled EDR Contact: 04/22/2013
	Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: N/A
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/15/2013
Next Scheduled EDR Contact: 04/29/2013
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 02/07/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 36

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 02/07/2013
Next Scheduled EDR Contact: 05/20/2013
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/23/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 57

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 06/22/2012
Date Made Active in Reports: 07/31/2012
Number of Days to Update: 39

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/25/2013
Next Scheduled EDR Contact: 06/10/2013
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 02/15/2013
Date Data Arrived at EDR: 02/21/2013
Date Made Active in Reports: 03/15/2013
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 01/21/2013
Next Scheduled EDR Contact: 05/06/2013
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 09/27/2012
Number of Days to Update: 70

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/18/2013
Next Scheduled EDR Contact: 07/01/2013
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: Rextag Strategies Corp.
Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health
Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics
Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Daycare Centers: Licensed Child Care Facilities
Source: Department of Public Health
Telephone: 860-509-8045

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Soils
Source: Department of Environmental Protection
Telephone: 860-871-4047

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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APPENDIX D

Historic Topographic Maps



ESUMS

9 Daytona Street

West Haven, CT 06516

Inquiry Number: 3233583.4

January 04, 2012

EDR Historical Topographic Map Report

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

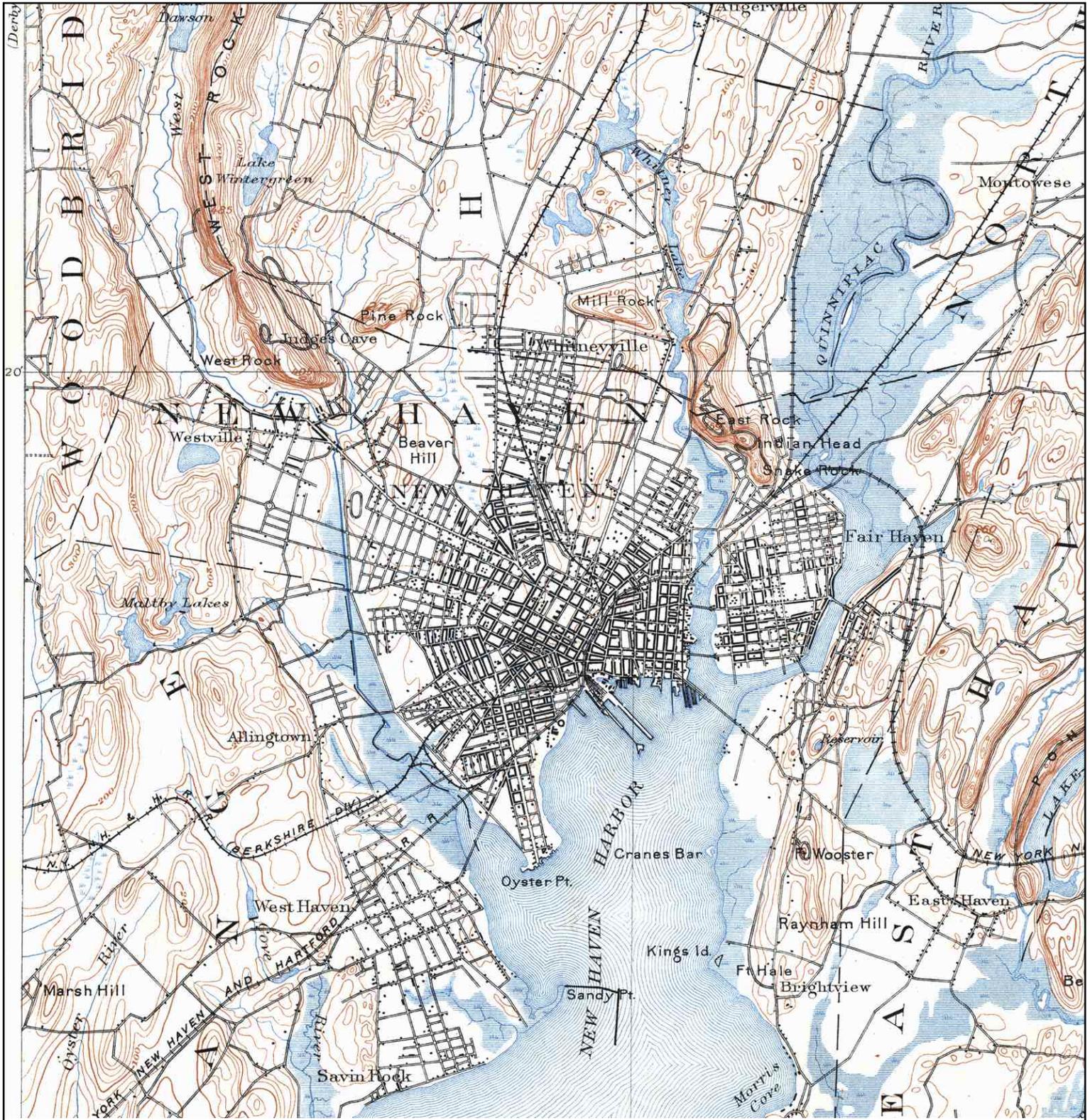
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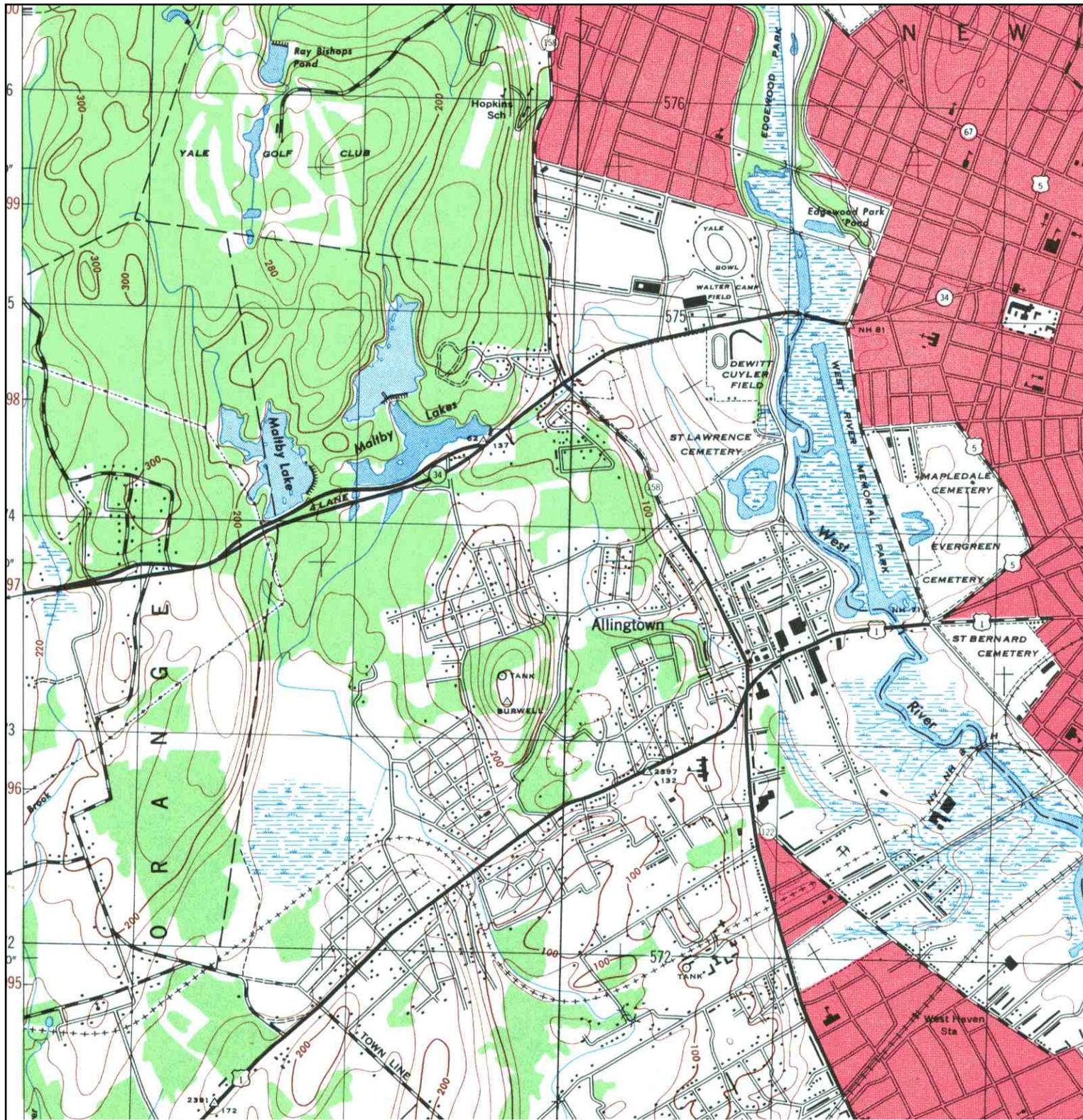
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Historical Topographic Map



<p>N ↑</p>	<p>TARGET QUAD NAME: NEW HAVEN MAP YEAR: 1892</p>	<p>SITE NAME: ESUMS ADDRESS: 9 Daytona Street West Haven, CT 06516 LAT/LONG: 41.2898 / -72.966</p>	<p>CLIENT: Langan Environmental Services CONTACT: Alison Suarato INQUIRY#: 3233583.4 RESEARCH DATE: 01/04/2012</p>
	<p>SERIES: 15</p>		
	<p>SCALE: 1:62500</p>		

Historical Topographic Map



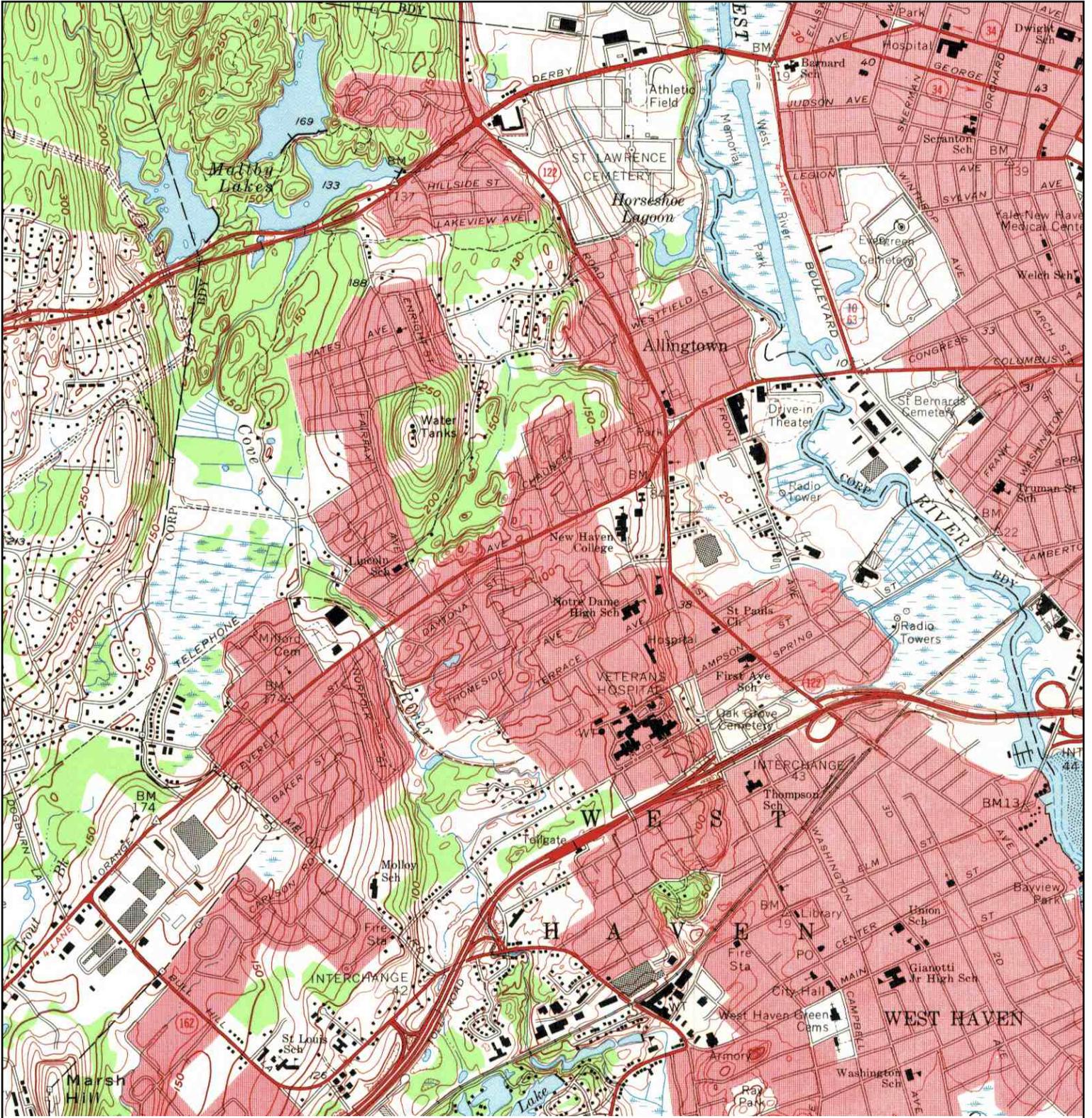
<p>N ↑</p>	<p>TARGET QUAD NAME: NEW HAVEN MAP YEAR: 1947</p>	<p>SITE NAME: ESUMS ADDRESS: 9 Daytona Street West Haven, CT 06516 LAT/LONG: 41.2898 / -72.966</p>	<p>CLIENT: Langan Environmental Services CONTACT: Alison Suarato INQUIRY#: 3233583.4 RESEARCH DATE: 01/04/2012</p>
	<p>SERIES: 7.5 SCALE: 1:25000</p>		

Historical Topographic Map



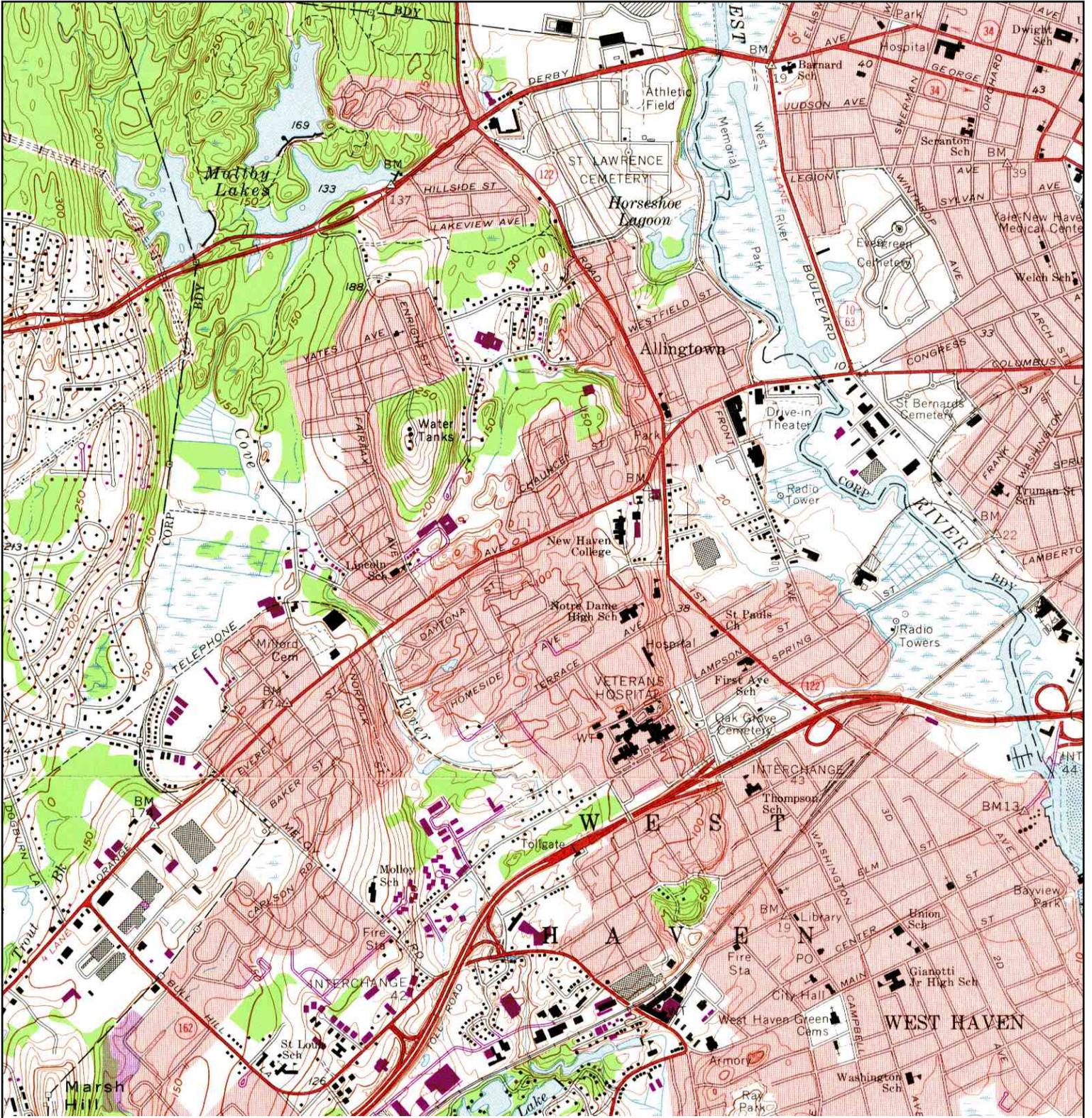
	TARGET QUAD NAME: NEW HAVEN MAP YEAR: 1954	SITE NAME: ESUMS ADDRESS: 9 Daytona Street West Haven, CT 06516 LAT/LONG: 41.2898 / -72.966	CLIENT: Langan Environmental Services CONTACT: Alison Suarato INQUIRY#: 3233583.4 RESEARCH DATE: 01/04/2012
	SERIES: 7.5 SCALE: 1:31680		

Historical Topographic Map



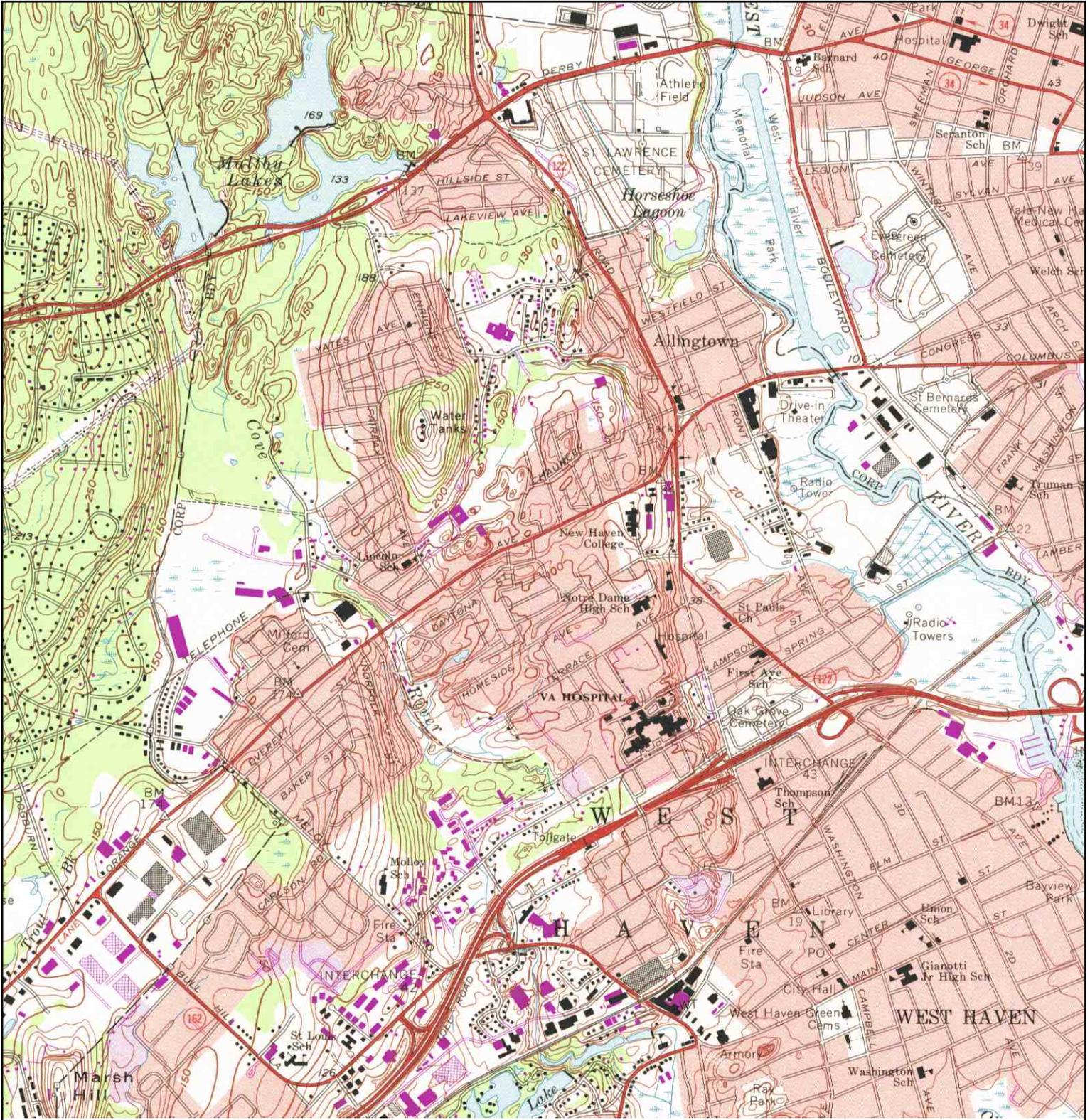
	TARGET QUAD	SITE NAME: ESUMS	CLIENT: Langan Environmental Services
	NAME: NEW HAVEN	ADDRESS: 9 Daytona Street	CONTACT: Alison Suarato
	MAP YEAR: 1967	LAT/LONG: 41.2898 / -72.966	INQUIRY#: 3233583.4
	SERIES: 7.5		RESEARCH DATE: 01/04/2012
	SCALE: 1:24000		

Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME: ESUMS	CLIENT: Langan Environmental Services
	NAME: NEW HAVEN	ADDRESS: 9 Daytona Street	CONTACT: Alison Suarato
	MAP YEAR: 1972	ADDRESS: West Haven, CT 06516	INQUIRY#: 3233583.4
	PHOTOREVISED FROM :1967	LAT/LONG: 41.2898 / -72.966	RESEARCH DATE: 01/04/2012
	SERIES: 7.5		
	SCALE: 1:24000		

Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME: ESUMS	CLIENT: Langan Environmental Services
	NAME: NEW HAVEN	ADDRESS: 9 Daytona Street	CONTACT: Alison Suarato
	MAP YEAR: 1984	West Haven, CT 06516	INQUIRY#: 3233583.4
	PHOTOREVISED FROM :1967	LAT/LONG: 41.2898 / -72.966	RESEARCH DATE: 01/04/2012
	SERIES: 7.5		
	SCALE: 1:24000		

APPENDIX E

City Directory Abstract

ESUMS

9 Daytona Street
West Haven, CT 06516

Inquiry Number: 3233583.6
January 06, 2012

The EDR-City Directory Abstract

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2008	Cole Criss-Cross Directory	-	X	X	-
1990	Johnson's City Directory	-	X	X	-
1972	Price & Lee's City Directory	-	X	X	-
1964	Price & Lee's City Directory	-	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

<u>Address</u>	<u>Type</u>	<u>Findings</u>
7 Waban Street	Client Entered	
14 Daytona Street	Client Entered	X
22 Daytona Street	Client Entered	
23 Daytona Street	Client Entered	
4 Daytona Street	Client Entered	
488 Orange Avenue	Client Entered	X
496 Orange Avenue	Client Entered	X
506 Orange Avenue	Client Entered	
516 Orange Avenue	Client Entered	
14 Rockview Street	Client Entered	X
24 Rockview Street	Client Entered	X
34 Rockview Street	Client Entered	X
38 Rockview Street	Client Entered	X
46 Rockview Street	Client Entered	X
13 Waban Street	Client Entered	
20 Waban Street	Client Entered	
3 Waban Street	Client Entered	
6 Waban Street	Client Entered	

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

9 Daytona Street
West Haven, CT 06516

FINDINGS DETAIL

Target Property research detail.

No Addresses Found

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

Daytona Street

14 Daytona Street

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1990	City POint Construcion Co Inc	Johnson's City Directory

Orange Avenue

488 Orange Avenue

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1990	Atlantic Construction Company Inc	Johnson's City Directory
	New England General Contracting Company	Johnson's City Directory
1972	New England General Contracting Company	Price & Lee's City Directory

496 Orange Avenue

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1990	Shel's Supplies & Equipment Co	Johnson's City Directory

Rockview Street

14 Rockview Street

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	Residential	Cole Criss-Cross Directory
1990	Residential	Johnson's City Directory
1972	Residential	Price & Lee's City Directory
1964	Residential	Price & Lee's City Directory

24 Rockview Street

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	Residential	Cole Criss-Cross Directory
1990	No Return	Johnson's City Directory
1972	Residential	Price & Lee's City Directory

FINDINGS

34 Rockview Street

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	Apartments	Cole Criss-Cross Directory
1990	Residential	Johnson's City Directory
1972	Residential	Price & Lee's City Directory
1964	Residential	Price & Lee's City Directory

38 Rockview Street

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	Residential	Cole Criss-Cross Directory
1972	Residential	Price & Lee's City Directory
1964	Residential	Price & Lee's City Directory

46 Rockview Street

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2008	Residential	Cole Criss-Cross Directory

FINDINGS

STREET NOT IDENTIFIED IN RESEARCH SOURCE

The following Streets were researched for this report, and the Streets were not identified in the research source.

<u>Street Researched</u>	<u>Street Not Identified in Research Source</u>
Orange Avenue	2008
Waban Street	2008, 1990, 1972, 1964

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

<u>Address Researched</u>	<u>Address Not Identified in Research Source</u>
9 Daytona Street	2008, 1990, 1972, 1964

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

<u>Address Researched</u>	<u>Address Not Identified in Research Source</u>
13 Waban Street	No Years Found
14 Daytona Street	2008, 1972, 1964
14 Rockview Street	No Years Found
20 Waban Street	No Years Found
22 Daytona Street	2008, 1990, 1972, 1964
23 Daytona Street	2008, 1990, 1972, 1964
24 Rockview Street	1964
3 Waban Street	No Years Found
34 Rockview Street	No Years Found
38 Rockview Street	1990
4 Daytona Street	2008, 1990, 1972, 1964
46 Rockview Street	1990, 1972, 1964
488 Orange Avenue	1964
496 Orange Avenue	1972, 1964
506 Orange Avenue	1990, 1972, 1964

FINDINGS

Address Researched

516 Orange Avenue

6 Waban Street

7 Waban Street

Address Not Identified in Research Source

1990, 1972, 1964

No Years Found

No Years Found

APPENDIX F

Historic Aerial Photographs



ESUMS

9 Daytona Street

West Haven, CT 06516

Inquiry Number: 3233583.5

January 04, 2012

The EDR Aerial Photo Decade Package



INQUIRY #: 3233583.5

YEAR: 2005

| = 500'





INQUIRY #: 3233583.5

YEAR: 2006

| = 500'





INQUIRY #: 3233583.5

YEAR: 2008

Scale: 500'



EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography January 04, 2012

Target Property:

9 Daytona Street

West Haven, CT 06516

<u><i>Year</i></u>	<u><i>Scale</i></u>	<u><i>Details</i></u>	<u><i>Source</i></u>
1940	Aerial Photograph. Scale: 1"=250'	Panel #: 41072-C8, New Haven, CT;/Flight Date: May 10, 1940	EDR
1963	Aerial Photograph. Scale: 1"=750'	Panel #: 41072-C8, New Haven, CT;/Flight Date: July 06, 1963	EDR
1966	Aerial Photograph. Scale: 1"=250'	Panel #: 41072-C8, New Haven, CT;/Flight Date: March 08, 1966	EDR
1972	Aerial Photograph. Scale: 1"=500'	Panel #: 41072-C8, New Haven, CT;/Flight Date: November 10, 1972	EDR
1975	Aerial Photograph. Scale: 1"=750'	Panel #: 41072-C8, New Haven, CT;/Flight Date: July 30, 1975	EDR
1980	Aerial Photograph. Scale: 1"=750'	Panel #: 41072-C8, New Haven, CT;/Flight Date: September 19, 1980	EDR
1985	Aerial Photograph. Scale: 1"=1000'	Panel #: 41072-C8, New Haven, CT;/Flight Date: March 25, 1985	EDR
1991	Aerial Photograph. Scale: 1"=500'	Panel #: 41072-C8, New Haven, CT;/Composite DOQQ - acquisition dates: April 03, 1991	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 41072-C8, New Haven, CT;/Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 41072-C8, New Haven, CT;/Flight Year: 2006	EDR
2008	Aerial Photograph. Scale: 1"=500'	Panel #: 41072-C8, New Haven, CT;/Flight Year: 2008	EDR



INQUIRY #: 3233583.5

YEAR: 1940

| = 250'





INQUIRY #: 3233583.5

YEAR: 1963

| = 750'





INQUIRY #: 3233583.5

YEAR: 1966

| = 250'



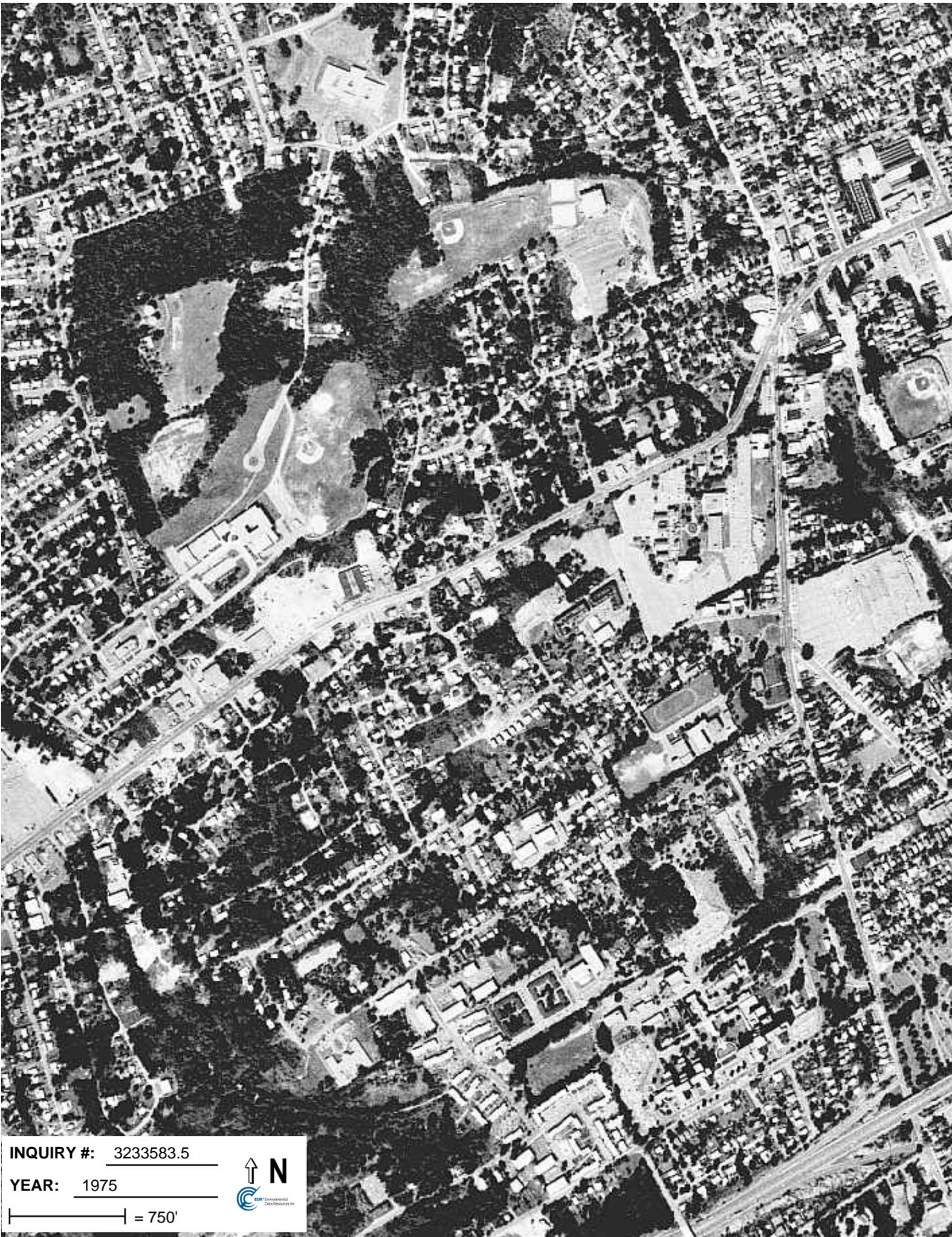


INQUIRY #: 3233583.5

YEAR: 1972

 = 500'





INQUIRY #: 3233583.5

YEAR: 1975

| = 750'





INQUIRY #: 3233583.5

YEAR: 1980

| = 750'





INQUIRY #: 3233583.5

YEAR: 1985

| = 1000'



ESRI Environmental
Data Resources Inc.



INQUIRY #: 3233583.5

YEAR: 1991

 = 500'



APPENDIX G

Sanborn Fire Insurance Maps



ESUMS

9 Daytona Street

West Haven, CT 06516

Inquiry Number: 3233583.3

January 04, 2012

Certified Sanborn® Map Report

Certified Sanborn® Map Report

1/04/12

Site Name:

ESUMS
9 Daytona Street
West Haven, CT 06516

Client Name:

Langan Environmental Services
555 Long Wharf Drive
New Haven, CT 06511



EDR Inquiry # 3233583.3

Contact: Alison Suarato

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Langan Environmental Services were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: ESUMS
Address: 9 Daytona Street
City, State, Zip: West Haven, CT 06516
Cross Street:
P.O. # 140068601
Project: NA
Certification # 7BE1-4EDE-A141

Maps Provided:

1973



Sanborn® Library search results
Certification # 7BE1-4EDE-A141

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

The Sanborn Library LLC Since 1866™

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Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



1973 Source Sheets



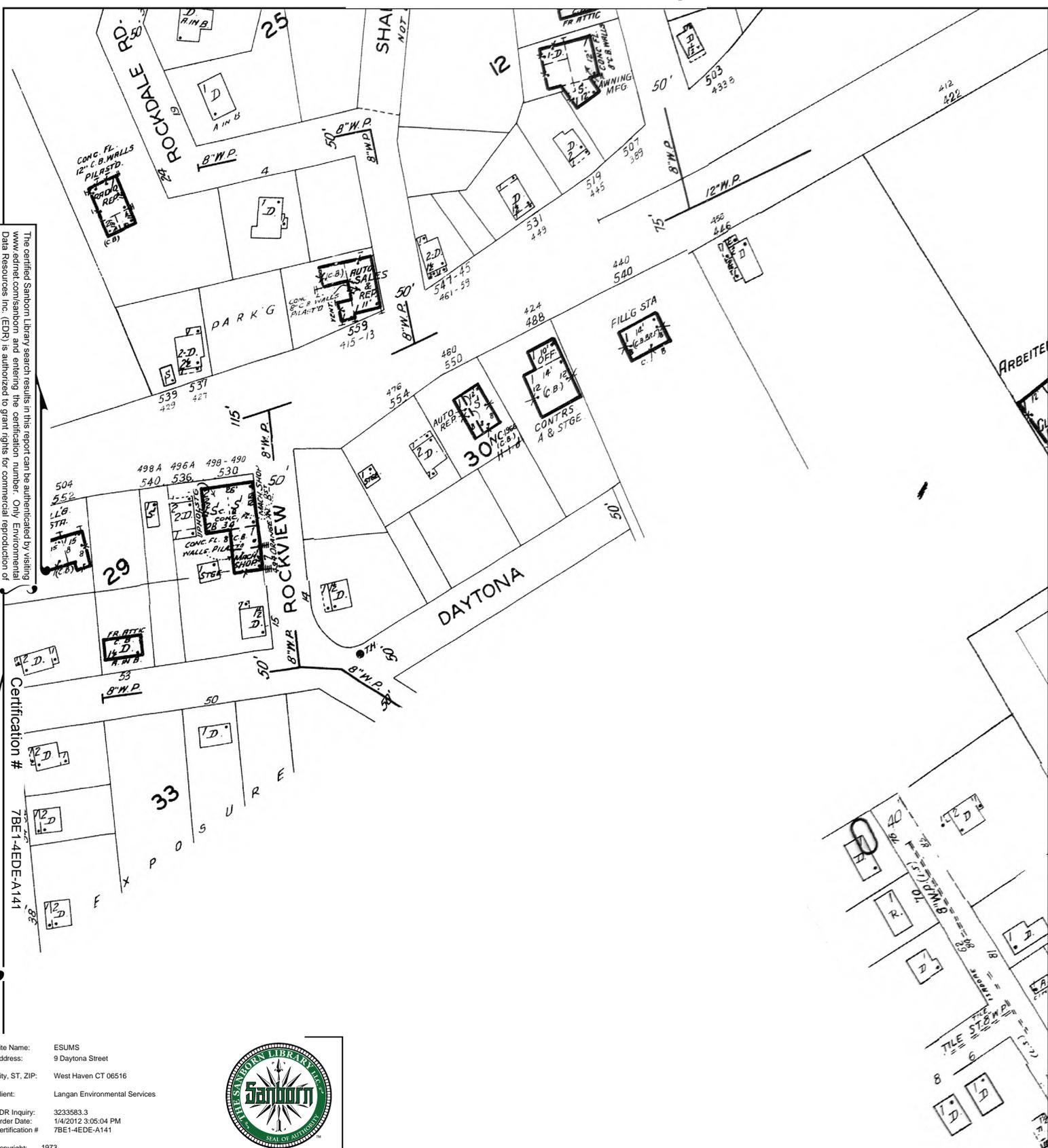
Volume 4, Sheet 449



Volume 4, Sheet 498

1973 Certified Sanborn Map

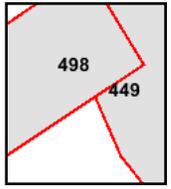
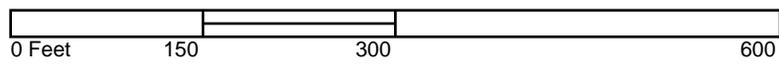
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Site Name: ESUMS
 Address: 9 Daytona Street
 City, ST, ZIP: West Haven CT 06516
 Client: Langan Environmental Services
 EDR Inquiry: 3233583.3
 Order Date: 1/4/2012 3:05:04 PM
 Certification # 7BE1-4EDE-A141



This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



Volume 4, Sheet 449
 Volume 4, Sheet 498



APPENDIX H

Site Photographs



Photo 1: View of front of 488 Boston Post Road



Photo 2: Approximate UST location at 488 Boston Post Road



Photo 3: Approximate location of suspected septic tank and associated piping (green outline) at 488 Boston Post Road



Photo 4: View of concrete vehicle maintenance pit located in commercial building at 488 Boston Post Road



Photo 5: View of drums and miscellaneous materials within commercial building located at 488 Boston Post Road



Photo 6: View of rear of commercial building located at 488 Boston Post Road



Photo 7: View of front of commercial building located at 496 Boston Post Road



Photo 8: View of parts storage room within commercial building located at 496 Boston Post Road



Photo 9: View of sink located in rear of commercial building at 496 Boston Post Road



Photo 10: View of drums and fill port observed at southern exterior of the commercial building located at 496 Boston Post Road



Photo 11: View of residential building located at 506 Boston Post Road



Photo 12: View of garage and storage shed located at 506 Boston Post Road



Photo 13: View of AST located at southern exterior of the residential building located at 506 Boston Post Road



Photo 14: View inside storage shed located at 506 Boston Post Road



Photo 15: View of depressed area located at 516 Boston Post Road. A partial building foundation, standing water, and abandoned drums and ASTs were observed



Photo 16: View of the southern exterior of the residential building located at 14 Rockview Street



Photo 17: View of fill port and crawl space entryway at residential building located at 14 Rockview Street



Photo 18: View of AST located in the basement of the residential building located at 14 Rockview Street



Photo 19: Daytona Street as viewed from Rockview Street



Photo 20: View of the residential building located at 38 Rockview Street from the front (west) side



Photo 21: View of natural gas service and fill port located on the northern exterior of the building at 38 Rockview Street



Photo 22: View of an AST located in the basement of the residential building located at 38 Rockview Street



Photo 23: View of the storage shed located on the east side of the residential building located at 38 Rockview Street



Phot 24: View of the residential building located at 46 Rockview Street (right), and looking north along Rockview Street



Photo 25: View of fill port located on the front of the residential building located at 46 Rockview Street

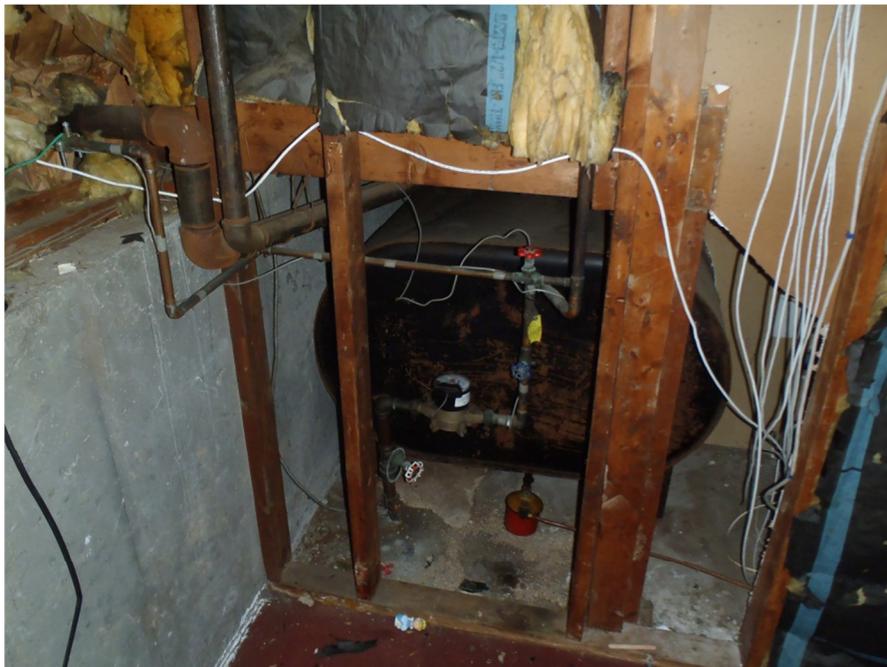


Photo 26: View of AST located along front (west) wall of basement in the residential property located at 46 Rockview Street



Photo 27: View of the front (west) side of the residential building located at 24 Rockview Street



Photo 28: View of fill port located on the western exterior of the residential building located at 24 Rockview Street



Photo 29: View of AST located in the basement of the residential property located at 24 Rockview Street



Photo 30: View of subsurface floor sump located in the basement of the residential building located at 24 Rockview Street



Photo 31: View of Waban Street from its eastern extent



Photo 32: View of front (west) side of residential property located at
20-22 Rockview Street



Photo 33: View of two fill ported located along the northern exterior of the building located at 20-22 Rockview Street



Photo 34: View of the AST at the northeastern corner of the basement at the residential property located at 20-22 Rockview Street



Photo 35: View of the AST located along the northern wall of the basement of the residential property located at 20-22 Rockview Street



Photo 36: View of standing water located in the basement of the residential property at 20-22 Rockview Street



Photo 37: View of the subsurface floor sump located in the basement of the residential property at 20-22 Rockview Street



Photo 38: View of the UNH parking lot portion of the Subject Property



Photo 39: View of the surrounding properties to the north of the Subject Property



Photo 40: View of the surrounding property to the east of the Subject Property along Boston Post Road

APPENDIX I

Langan Resumes

Jamie P. Barr, LEP

Associate
Geological Engineer



15 years in the industry ~ 9 years with Langan

Mr. Barr is a Geological Engineer with over 15 years of diversified experience that includes remedial system design, feasibility studies, Phase I and Phase II environmental site assessments, construction oversight, geotechnical investigations, residential subdivision design, stormwater management, site surveying, mining exploration, and aquatic toxicology. Mr. Barr has experience coordinating and negotiating with the USEPA and regulatory agencies in the following states: Connecticut, New York, New Jersey, Massachusetts, Indiana, Illinois, and Pennsylvania. Mr. Barr has experience with projects in the Connecticut Property Transfer Act, New York State Brownfield Cleanup Program, Indiana VRP, as well as the USEPA Superfund Program. Mr. Barr has been involved with numerous environmental due diligence, investigation, and remediation projects ranging from small residential/commercial buildings to large industrial facilities. Mr. Barr has also overseen geotechnical and environmental construction activities such as soil, groundwater, vapor remediation system installation, pile load testing, sheeting and shoring, landfill construction and closure, and numerous environmental investigations.

Selected Projects

The Shops at Atlas Park, Glendale, NY
UNISYS: Former Remington Rand, Middletown, CT
United Nations Capital Master Plan, Manhattan, NY
The Hershey Company, Hershey, PA
RBS GBM Building, Stamford, CT
Ryder Systems Inc., Various Locations, CT
Waterside Power Plant, Stamford, CT
1 Hudson Plaza, Extell Development, New York, NY

Education

University of New Brunswick, Bachelor of Science: Geological Engineering

Professional Registration

Licensed Environmental Professional – CT

Affiliations

New Haven Manufacturers Association

Connecticut Building Congress

Environmental Professionals of CT

National Brownfield Association of NY

Brownfield Coalition of the Northeast

Association of Professional Engineers and Geoscientists of New Brunswick

Kathleen Blessing, LEED AP

Project Scientist



8 years in the industry ~ 8 years with Langan

Ms. Blessing has eight years of regulatory and consulting experience, during which time has worked on numerous environmental and geotechnical projects for industrial, commercial, residential, and public facilities in several states including Connecticut, New York, New Jersey, Massachusetts, and Pennsylvania. She also has experience with permitting and compliance tasks associated with projects in several Connecticut regulatory programs.

Ms. Blessing has conducted Phase I Environmental Site Assessments (ESA), Phase II/III Site Investigations (SI) and remedial actions. She has managed many Phase I and II, remediation, and hazmat survey projects and has prepared construction documents and provided construction administration monitoring and oversight. Ms. Blessing possesses an understanding of Occupational Health and Safety Administration Environmental Health and Safety regulations and is the Health and Safety coordinator for the New Haven, Connecticut office.

Selected Projects

Clinton Manor and Quintard Manor, Stamford, CT
Continuum of Care, Inc., New Haven, CT
Lowe's Home Improvement Centers, Various Locations, CT, NY, MA
Stop & Shop, Various Locations, CT, NY
Blue Back Square, West Hartford, CT
Ryder, Bridgeport, Hartford & East Lyme, CT
United Rentals, Bridgeport, CT
Daughters of Mary, New Britain, CT
Bridgeport Housing Authority, Bridgeport, CT
The Classic, Stamford, CT
Former Peter Paul Facility, Naugatuck, CT
Morgan High School, Clinton, CT
DLC Management, Hamden, Vernon, Torrington & Orange, CT

Education

Central Connecticut State University:
B.S. Biology
M.A. Environmental Science

Affiliations

Connecticut Business and Industry -
Environmental Policies Council

Environmental Professionals of
Connecticut

8 May 2013

Mr. Jay Brotman
Svigals + Partners
Architecture + Art
84 Orange Street
New Haven, Connecticut

**RE: Phase I Environmental Site Assessment Addendum
34 Rockview Street – Site Inspection
West Haven, Connecticut
Langan Project No.: 140068603**

Dear Mr. Brotman:

Langan Engineering and Environmental Services, Inc. (Langan) prepared this addendum letter to supplement the Phase I Environmental Site Assessment (ESA) dated 5 April 2013, prepared by Langan, for the "Subject Property" located at 488, 496, 506 and 516 Boston Post Road; 4, 9, 14, 22, and 23 Daytona Street; 14, 20-22, 24, 34, 38, and 46 Rockview Street; and 3, 6, 7, 13, and 20 Waban Street. During the Phase I ESA Langan was not granted access to the 34 Rockview Street parcel to perform a site reconnaissance. Access to 34 Rockview Street was provided on 16 April 2013, after the issuance of Langan's April 5, 2013 Phase I ESA. This letter provides observations from the site visit of 34 Rockview Street performed by Langan. No additional Recognized Environmental Concerns (RECs) were identified at the Subject Property during Langan's site visit.

SITE RECONNAISSANCE

Exterior Observations

On 16 April 2013 Langan performed a site visit of the portion of the Subject Property located at 34 Rockview Street. The parcel is bound to the north by Daytona Street, to the west by Rockview Street, to the south by the 38 Rockview Street parcel, and to the east by the 22 Rockview Street parcel. The Subject Property is improved with a two-story, multi-family building with a basement, an asphalt driveway and a concrete driveway. Langan observed electric meters, and two fill pipes and one vent pipe along the northern exterior of the building. A second vent pipe was observed along the eastern exterior of the building. A 1-inch diameter plastic pipe was observed penetrating the northern wall of the building, adjacent to the fill and vent pipes, and appears to be a conduit for electrical wiring. Multiple satellite dishes were observed along the northwestern exterior of the building. Access to the basement is provided by doorways located along the southern and eastern side of the building. Access is provided to

the first and second floors by a common entrance constructed with concrete stairs along the western (front) side of the house, and by separate entrances constructed with wood stairways along the eastern exterior of the building. The exterior walls of the building are finished with brick, vinyl siding, and concrete. Roof access was not provided to Langan during the site visit and general observations were made from ground level. The roof is pitched and finished with asphalt shingles, and a brick chimney was observed along the northern portion of the roof. The asphalt and concrete driveways are located north and south of the building, respectively. The remainder of the parcel is covered with grass, with mulch along the western exterior of the building. Langan observed miscellaneous pieces of furniture and trash throughout the southern and eastern portions of the parcel.

Interior Observations

Access to the basement is provided by the exterior entrances, with no interior access to the first or second floors. The basement has seven rooms and a closet, including a bathroom, utility room, three bedrooms, a mudroom, and an unfurnished kitchen. The floors were finished with concrete, ceramic and vinyl tile, and carpet. The walls were finished with plaster or concrete, and the ceilings were finished with plaster. The utility room contained two steel heating oil aboveground storage tanks (ASTs), two hot water heaters, two furnaces, and miscellaneous furniture. The fill and vent pipes observed on the exterior of the buildings are associated with the ASTs located in the utility room. The ASTs are located along the eastern and western extents of the utility room. Staining was observed on the concrete floor directly underneath the AST located along the western side of the room; however, the concrete floor appeared to be in good condition and no floor drains were observed in the basement. Miscellaneous pieces of trash and furniture were observed throughout the basement. According to personnel from the City of West Haven, a septic leak occurred within the basement in the recent past, and Langan observed heavy mold on the floors, walls and carpets located within the basement. A septic odor was observed throughout the interior of the structure.

The first floor consists of seven rooms and various closets, including three bedrooms, a kitchen, a bathroom, and two common living spaces. The floors are finished with wood, carpet, and vinyl tile. The walls and ceilings are finished with plaster. Hot water baseboard heaters are located in each room of the first floor. Miscellaneous pieces of furniture and trash were observed throughout the first floor. The second floor is accessed by an interior stairway located at the front (west) entrance of the building, and by the entrance located along the eastern exterior of the building. The second floor consists of six rooms and various closets, including three bedrooms, a bathroom, a kitchen, and a common living space. The floors are finished with carpet and vinyl tile, and the walls and ceilings are finished with plaster. The ceilings are slanted at the approximate pitch of the roof, and no attic was observed within the

building. Langan observed miscellaneous pieces of furniture and wall decorations throughout the second floor. Hot water baseboards were observed within the rooms of the second floor.

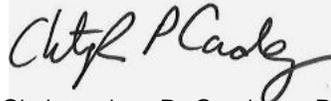
CLOSURE

During the site inspection Langan did not observe any conditions on the 34 Rockview Street parcel that would constitute a REC. Based on the Phase I ESA site reconnaissance Langan does not recommend any additional investigation at this time. Please contact us with any questions regarding this addendum.

Sincerely,
Langan Engineering and Environmental Services, Inc.



Jamie P. Barr, L.E.P.
Associate

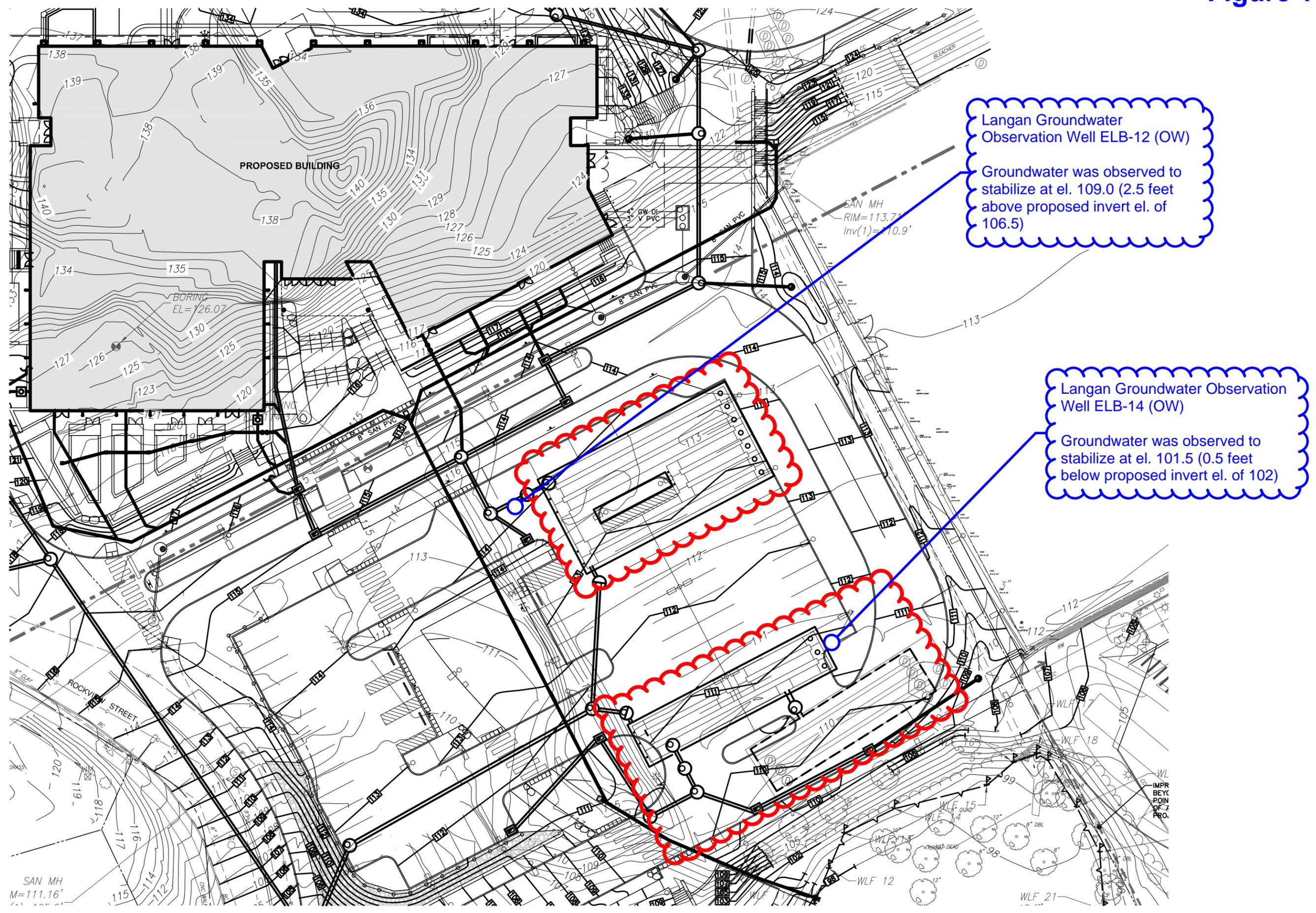


Christopher P. Cardany, P.E., LEED^{AP}
Senior Associate



Appendix J:
Geotechnical Information

Figure 1



15 February 2012
Revised 8 November 2013

Mr. Jay Brotman
Svigals + Partners
Architecture + Art
84 Orange Street
New Haven, Connecticut 06510
Via Email: jbrotman@svigals.com

**RE: Final Geotechnical Engineering Report
Engineering & Science University Magnet School – Rockview Site (“The Project”)
West Haven, Connecticut
Langan Project No. 140068601**

Dear Mr. Brotman:

This report presents the results of Langan Engineering & Environmental Services’ (Langan’s) geotechnical engineering investigation for the proposed Engineering & Science University Magnet School (ESUMS) project located on Rockview Street in West Haven, Connecticut. This report summarizes our findings and provides recommendations for foundations, site preparation, and other geotechnical aspects of design and construction. On 15 February 2012, we issued a preliminary Geotechnical Engineering Investigation Report which provided preliminary information about the site. As architectural, site and grading plans were advanced, we conducted a final engineering investigation for the site and prepared a draft report detailing our findings. We have since prepared this final report. Our current understanding of the proposed development is based on the project design drawings dated 11 July 2013. This work was completed in accordance with our authorized proposal entitled “Proposal for Engineering and Surveying Services,” revised 6 December 2012.

Elevations noted herein are based on the available survey entitled “Topographic Survey, Engineering and Science University Magnet School (Rockview Site), West Haven, Connecticut” Sheet VT-101-0102, prepared by Langan and dated 8 November 2012. All elevations noted herein reference North American Vertical Datum (NAVD) 1988.

SITE DESCRIPTION

The site is approximately 4.6 acres and is located east of the intersection of Boston Post Road and Rockview Street. The site is bordered by Boston Post Road to the north, commercial property and the University of New Haven (UNH) to the east, residential property to the south, and Rockview Street to the west; see Figure 1.

The site is presently occupied by multiple residential and commercial structures, wooded areas, and a recently constructed at-grade parking lot. Additionally, two paper streets, Daytona and Waban, presently bisect the site. All existing structures and roadways will be demolished/abandoned to accommodate the proposed development; see Figure 2. An approximately ½-acre wetland exists at the southeastern portion of the site and is expected to remain as part of the proposed development. Within the limits of the recently constructed at-grade parking lot, an underground stormwater detention system presently exists. It is anticipated that the existing underground system will remain as part of the proposed development.

Based on available survey information, the site slopes downward from north to south, with existing grades varying from about elevation 135 feet at the northwest corner of the site to elevation 96 feet at the southwest corner.

PROPOSED DEVELOPMENT

The proposed development will consist of the complete demolition of the existing buildings and the construction of the Engineering and Science University Magnet School (ESUMS) on the University of New Haven campus in West Haven, Connecticut. Based on current architectural and site plans, the proposed building will be five stories tall including one partially below-grade-level. Our knowledge of the structural design of the structure is based on structural plans prepared by Michael Horton Associates, Inc., and dated July 11, 2013.

The proposed building will have a footprint of approximately 32,000 square feet. The lowest finished-floor elevation (FFE) is expected to be el. +120.0 and the proposed second level finished floor elevation of the structure is expected to be el. +134.33. Within the proposed building in the southwestern portion, a gymnasium is proposed (approximately 7,000 square feet).

Cuts up to approximately 20 feet will be required at the northwestern portion of the proposed structure and cuts up to approximately 10 feet will be required at the northeastern portion of the proposed structure. Along the southern edge of the proposed structure, no cuts or minimal fills (up to approximately 5 feet) will be required.

The proposed building will be constructed into the existing slope at the site at the intersection of Boston Post Road (Route 1) and Rockview Street. The lowest proposed finished floor (el. +120) will consist of a partial basement and will exit to grade along the southern edge of the building. The second floor (el. +134.33) will exit to grade along the northern edge of the building. To the north of the proposed structure, proposed grades range from approximately el. +133 to el. +134. To the south of the proposed structure, proposed grades range from approximately el. +115 to el. +125. To accommodate the

proposed grades along the western and eastern portions of the structure, a series of cut walls are proposed; specifically, two walls at the western portion of the building up to approximately 7 feet high and two walls at the eastern portion of the building up to approximately 15 feet high. These walls will be an extension of the building foundation walls. In addition, a series of landscape walls, designed by others, are proposed along the southern edge of the proposed building; see Figure 2.

In addition to the proposed building, the proposed development will also include at-grade parking areas, drive aisles, and landscape features; see Figure 2.

Proposed structural loads for the school addition were transmitted to our office on September 24, and October 8, 2013 by the structural engineer, Michael Horton Associates, Inc.. The following structural loads within the proposed structure are anticipated:

- Column loads not to exceed about 440 kips; and
- Wall loads not to exceed 7 kips per lineal foot.

REVIEW OF AVAILABLE INFORMATION

As part of our evaluation, we reviewed available subsurface, geologic and flood information from our files. A brief description of each is provided below:

Regional Geology

We reviewed the 1992 “Surficial Materials Map of Connecticut” and the 1985 “Bedrock Geological Map of Connecticut,” both prepared by the Connecticut Geological and Natural Resource Survey. The Surficial Materials Map indicates the overburden soils in the vicinity of the site generally consist of glacially-deposited till material (see Figure 3). The Bedrock Map indicates that the bedrock type below the site is of fine-grained greenstone (see Figure 4). According to the USGS, greenstone is a green to gray-green massive well-foliated metamorphic rock.

Federal Emergency Management Association Map

The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for the Town of West Haven, Connecticut, dated 17 December 2010, indicates the location of the proposed building is located in “Zone X” which is not within the delineated 500-year flood plain (see Figure 5).

SUBSURFACE INVESTIGATION

As part of this study, Langan conducted a two-phase subsurface investigation consisting of 12 soil borings and 9 rock probes.

Langan 2012 Investigation

Langan conducted a subsurface investigation consisting of seven borings, identified in the plan as LB-01 through LB-07 (see Figure 2). The soil borings were drilled by Soiltesting, Inc., on 31 January and 20 September 2012 under the full-time observation of a Langan engineer. Borings were advanced to depths ranging from 6 to 24 feet below the existing site grades using a Diedrich D-50 turbo truck-mounted drill rig equipped with 3 ¾-inch inside-diameter hollow-stem augers.

In general, N-values were recorded and soil samples were collected continuous to 12-feet and at 5-foot intervals thereafter. All soil samples were obtained with a split spoon sampler and were collected in conjunction with Standard Penetration Tests (SPT)¹ performed in general accordance with ASTM D-1586. Soil samples were collected in the field and recorded on our logs along with penetration resistance and general observations during drilling.

Bedrock was cored in four of the boreholes using an NX-sized double tube core barrel, specifically borings LB-01, LB-05, LB-06 and LB-07. The Core barrel was equipped with a diamond-cutting bit in accordance with ASTM D-2113 (Rock Core Drilling). Rock type, percent recovery (REC)² and Rock Quality Designation (RQD)³ were determined for each run. The boring logs from this investigation are provided in Appendix A. Groundwater levels were monitored throughout the drilling of the soil borings. No observation wells were installed during this subsurface investigation phase. Upon completion, all borings were backfilled with the soil cuttings; boreholes in paved areas were patched with asphalt cold patch.

Langan 2013 Investigation

Langan conducted a subsequent subsurface investigation consisting of five borings, identified in the plan as LB-08 through LB-12 and 9 rock probes identified in the plan as LRP-01 through LRP-09 (see Figure 2). The soil borings and rock probes were drilled by Soiltesting, Inc.,

¹ The Standard Penetration Test is an in-situ testing technique utilized to infer the soil density and consistency. The SPT N-value is defined as the number of blows required to drive a 2-inch outside diameter split-barrel sampler 12-inches, after an initial penetration of 6-inches, using a 140-pound hammer free falling from a height of 30-inches.

² Rock Core Recovery is defined as the ratio of the total length of rock recovered to the total core run length, expressed as a percent.

³ The RQD is defined as the ratio of the summation of each rock piece greater than 4-inches in length for NX cores to total core run length, expressed as a percent.

between 13 and 18 March 2013 under the full-time observation of a Langan engineer. Borings were advanced to depths ranging from 1 to 24 feet below the existing site grades using a Diedrich D-50 turbo truck-mounted drill rig equipped with 3 ¾-inch inside-diameter hollow-stem augers. Rock probes were advanced to depths ranging from 1 to 23.5 feet below existing grades using either a Diedrich D-50 turbo truck-mounted drill rig equipped with 3 ¾-inch inside-diameter hollow-stem augers or an ATV-mounted drill rig equipped with 2 ¼-inch inside-diameter hollow-stem augers.

In general, N-values were recorded and soil samples were collected continuous to 12-feet and at 5-foot intervals thereafter. All soil samples were obtained with a split spoon sampler and were collected in conjunction with SPT performed in general accordance with ASTM D-1586. Soil samples were collected in the field and recorded on our logs along with penetration resistance and general observations during drilling.

Bedrock was cored in two of the boreholes using an NX-sized double tube core barrel, specifically LB-08 and LB-09. The core barrel was equipped with a diamond-cutting bit in accordance with ASTM D-2113 (Rock Core Drilling). Rock type, REC and RQD were determined for each run. The boring logs from this investigation are provided in Appendix A. Rock probe logs are provided in Appendix B. Groundwater levels were observed throughout the drilling of the soil borings and within the environmental observation wells installed as part of the environmental subsurface investigation. Upon completion, all borings were backfilled with the soil cuttings; boreholes in paved areas were patched with asphalt cold patch. Four observation wells were installed during the environmental subsurface investigation. Two of the observation wells located along Boston Post Road were installed as groundwater observation wells sealed to obtain the water levels within the bedrock and the remaining two observation wells located on the existing parking lot to the east of the site were installed as traditional observation wells to determine the water level in the soils overlying the bedrock. Installation logs associated with the environmental logs are provided in Appendix C.

Soil samples from the borings from both of our subsurface investigations, were returned to Langan's office and reviewed by a senior engineer.

Laboratory Testing

Selected rock samples were transmitted to a specialty testing laboratory to determine properties for use in the evaluating and designing of foundations bearing on rock. A total of three (3) unconfined compression tests were performed as part of this study. The results of the unconfined compression testing indicated the strengths of the intact portions of the Greenstone rock to vary from 9,995 to 32,761 psi. The unit weights of the rock samples ranged from 184 to 187 pounds per cubic foot. A summary of the laboratory tests performed and associated results from our investigation are included in Appendix D.

SUBSURFACE CONDITIONS

The general subsurface conditions encountered at the site consist of a surficial layer of asphalt pavement or topsoil where encountered, underlain by miscellaneous fill material where encountered, a thin layer of silt where encountered, glacial till, followed by weathered rock and greenstone bedrock. The thin layer of silt was encountered in three of the 12 borings located generally north and south of the proposed building footprint. Bedrock was encountered between 1 and 24 feet below existing site grades and generally slopes downward from north to south and from west to east. Groundwater was encountered between 2 to 7.5 feet below the existing site grades at the boring locations and was observed to stabilize between 3.2 and 9.5 feet below existing site grades at the environmental observation well locations. A more detailed description of each layer encountered is provided below:

Surficial Materials

A 1.5-inch to 2-inch-thick layer of asphalt pavement was encountered in two of the 12 borings, specifically LB-01 and LB-10. A layer of topsoil, 4-inch to 8-inch-thick was encountered in seven of the 12 borings, specifically LB-03A, LB-04, LB-05, LB-07, LB-09, LB-11 and LB-12. A layer of gravel 2-inches-thick was encountered in only one boring drilled, specifically LB-08. At the remaining locations, specifically LB-02 and LB-06, the fill layer was observed at the ground surface.

Miscellaneous Fill

A layer of miscellaneous fill material was encountered in all the boring locations with the exception of borings LB-05 and LB-07. The fill layer generally consists of coarse to fine sand with varying proportions of silt, fine gravel, clay, brick, mica, and roots. The top of the fill material was observed to range between 0 feet to 8-inches below existing site grades. The thickness of the fill encountered within the general footprint of the proposed building typically ranged from 6 inches to approximately 3 feet. The fill thickness encountered within the proposed parking lot area ranged from 2 feet to 8 feet. SPT N-values within the fill ranged from 10 blows-per-foot (bl/ft) to 65 bl/ft, and averaged approximately 28 bl/ft. The higher blow counts within the fill layer at isolated locations are typically indicative of the presence of obstructions within the fill layer. Refusal of the drilling equipment was encountered at borings LB-11 and LB-12; it is unclear whether refusal at these locations was due to obstructions in the fill or bedrock as refusal was encountered at a shallow depth when compared to other locations.

Silt

A layer of silt was encountered underlying the fill material in three borings, specifically within borings LB-01, LB-02, and LB-10. The silt layer generally consists of silt with varying amounts of

medium to fine sand, clay, roots and mica. The top of the silt layer was observed ranging between 2 feet to 4 feet below existing site grades, which corresponds to approximate el. +111.5 to el. +128. The silt layer thickness encountered in the borings ranged from 2 feet to 2.5 feet thick. SPT N-values in the silt layer ranged from 1 to 18 bl/ft and averaged approximately 12 bl/ft.

Glacial Till

A layer of glacial till 6-inches to 15 feet thick was encountered underlying the surficial material, fill material or silt layer in all borings with the exception of borings LB-06 and LB-09. The glacial till layer averaged 5 feet thick. The glacial till layer generally consists of coarse to fine sand with varying amounts of silt, fine gravel, mica, clay, and weathered rock. SPT N-values in the glacial till layer ranged from 16 bl/ft to split spoon refusal (i.e. 50 blows over 4 inches) and averaged approximately 57 bl/ft (i.e. presuming refusal type SPT N-values equivalent to 100 bl/ft). Within borings LB-02, LB-03B, and LB-10, the glacial till was observed to be medium dense, as evidenced by average SPT N-values of 22 bl/ft at the interface of the fill or silt to glacial till. This less than typical density glacial till was typically 1.5 to 2.0 feet in thickness.

A zone containing cobbles and/or boulders was inferred in boring LB-10 between depths of 6 to 9 feet below existing site grades; the top of the zone was encountered at el. +108.5. The cobble/boulder zone was recovered and described as silt with varying proportions of weathered rock fragments. SPT N-values in the cobble/boulder zone ranged from 24 bl/ft to split spoon refusal (i.e. 60 blows over 4 inches). Hard drilling was observed within this zone from 8 to 9 feet below existing site grades in LB-10, corresponding to el. +106.5 to el. +105.5. The same hard drilling was observed within rock probes LRP-1 through LRP-3 from 4 feet to 8 feet below existing site grades, corresponding to el. +110.5 to el. +106.0.

Weathered Rock

A layer of weathered rock 6-inches to 5 feet thick was encountered underlying either the fill or glacial till layer in all borings with the exception of boring LB-05. The weathered rock averaged approximately 2.5 feet thick. The weathered rock layer recovered within the split-spoon samples generally consists of weathered rock fragments with varying proportions of medium to fine sand and silt or medium to fine sand with varying proportions of weathered rock fragments and silt. The top of the weathered rock was encountered at depths ranging from 6-inches to 19 feet below existing site grades corresponding to approximate el. +92 to el. +135.5. Within the building pad, the top of weathered rock encountered at depths ranging from 6 inches to 3.5 feet below existing grade corresponding to el. +123.0 to el. +135.5. SPT N-values in the weathered rock layer ranged from 74 bl/ft to split spoon refusal (i.e. 100 blows over 4 inches).

Bedrock

Greenstone bedrock was encountered underlying the glacial till or the weathered rock layers in all the borings. The more competent bedrock was cored in six of the twelve borings, specifically LB-01, LB-05 through LB-09. In the remaining borings, LB-02 through LB-04 and LB-10, the presence of bedrock was inferred by auger refusal and verified by refusal of the split spoon sampler. The bedrock underlying the site consists of fresh to slightly weathered Greenstone bedrock, the top of which was encountered at depths ranging from 1 to 24 feet below the existing site grades; corresponding to approximate el. +87 to el. +135. REC's from within the bedrock layer generally ranged from 42% to 100%, averaging approximately 91%. RQD's recorded within the first 5-foot-long core run below the top of rock typically ranged from 0 to 40% and averaged 24%, indicating a very poor quality, highly fractured rock condition. RQD's recorded within subsequent rock core runs typically ranged from 17 to 85% and average 57% indicating a fair quality rock condition.

Unconfined compression testing was conducted on select samples within boring LB-09 from the following approximate elevations: 134, 129.5 and 123. The results indicated the strengths of the intact portions of the greenstone rock to vary from 9,995 to 32,761 psi. The unit weights of the rock samples ranged from 184 to 187 pounds per cubic foot.

Groundwater

Groundwater was observed throughout our investigations and again several days after in the installed environmental observation wells. At the boring locations, the groundwater was encountered at approximately 2 to 7.5 feet below existing grades; corresponding to elevations ranging from el. +91.5 to el. +128.5. At the locations of the environmental observation wells, the groundwater was observed to stabilize between approximately 3.2 to 9.5 feet below existing site grades; corresponding to elevation el. +101.5 and el. +129.5. Generally speaking, the elevation of the groundwater decreases from north to south across the site. A summary of the groundwater data gathered from the observation wells is summarized on the table below:

BORING	ELB-5 (OW)	ELB-6 (OW)	ELB-12 (OW)	ELB-14 (OW)
Existing Grade Elev.	133.0	134.0	113.5	111.0
	GWT Elevation	GWT Elevation	GWT Elevation	GWT Elevation
3/19/2013	129.8	129.5	109.0	101.5

Groundwater levels are expected to fluctuate with weather and seasonal conditions or construction activities such as dewatering.

RECOMMENDATIONS

Our recommendations for foundations and other geotechnical aspects of design based on our subsurface investigation work are outlined below:

Key geotechnical issues

The following key geotechnical issues have been identified:

- The presence of existing structures within the limits of the proposed building that will be removed as part of the proposed development;
- The removal of rock to construct the slabs and footings throughout the proposed building with more significant rock removal expected within the northern portion of the building footprint;
- Variation in bearing material at the bottom of footing elevations in terms of rock quality as foundations transition from the northern portion of the building footprint to the central/southern portion of the building footprint;
- The possible need to remove rock to construct the retaining walls located to the east and west of the structure;
- Variation in bearing material at the bottom of footing elevations in terms of material type (i.e., weathered bedrock to glacial till to structural fill) as foundations transition from the central/southern portion of the building footprint to the southern edge of the building footprint;
- The proximity of the documented groundwater level to the proposed bottom of slab elevation; and
- The presence of unsuitable miscellaneous fill and silt material throughout the site and the proposed building limits predominantly within the southern portion of the building footprint.

Foundations

The soils encountered at the site are adequate to support a shallow foundation system, except for the miscellaneous fill and silt encountered within the southern portion of the proposed building. For simplicity of design, we recommend the use of an allowable bearing pressure of 8

tons per square foot for footings bearing on competent fresh to slightly weathered greenstone bedrock (i.e., hard, durable fractured greenstone bedrock containing no disintegrated or decomposed rock). For footings designed on moderately weathered to completely weathered greenstone, glacial till, or structural fill, we recommend footings be designed utilizing an allowable bearing pressure of 3 tons per square foot. An ultimate sliding coefficient of 0.5 could be utilized for design purposes for the interface between the bottom of footings and the underlying material described above. An appropriate factor of safety should be utilized as the sliding resistance coefficient is an ultimate value. A removal and replacement program shall be required to provide suitable material beneath footings within the southern portion of the structure as outlined in the Removal of Unsuitable Materials sections of this report.

The transition between fresh to slightly weathered rock to more weathered rock, glacial till and structural fill is expected to occur along the southern edge of the gymnasium, lobby, cafeteria, server, and ground storage area of the structure. Initially, we conceptually delineated the transition line from competent, fresh to slightly weathered greenstone bedrock (i.e., 8 tons per square foot allowable bearing material) to more weathered rock/glacial till/structural fill (i.e., 3 tons per square foot allowable bearing material) on Figure 2. Subsequently, we coordinated with the structural engineer to delineate the transition line on the foundation plans; see Attachment E for a copy of the foundation plans for reference purposes. The actual location of the transition line should be observed and confirmed by the on-site geotechnical engineer during construction. In areas where the foundation subgrade material will transition between more competent rock and less competent material, an appropriate transition should be provided based upon observed field conditions and the on-site geotechnical engineer's recommendations. The transition should be implemented to minimize the potential for differential settlements as a result of support of foundation elements on both more competent rock and less competent material. Some over-excavation of more competent rock may be required and should be expected. Footings designed with an allowable bearing pressure of 8 tons per square foot should be cast in contact with the greenstone bedrock or lean concrete infill if the bedrock surface is uneven, unlevel or if slight over excavation occurs.

All footings must be constructed 42 inches or deeper below the lowest adjacent grade for frost consideration. Interior footings in heated spaces may be constructed at a convenient depth below the slab; however, all footing bottoms should be at least 2.0 feet below the lowest top of slab elevation. Isolated column footings should have a minimum dimension of 3 feet (i.e. 9 feet square in plan area) and strip footings should have a minimum width of 2 feet even if smaller dimensions can be justified using the allowable bearing pressures provided herein to ensure they can be properly constructed and adequately cleaned. Footings bearing upon fresh to slightly weathered Greenstone bedrock and designed utilizing an allowable bearing pressure

of 8 tons per square foot at the transition line shown in Appendix E should bear at least 2-feet below the top of the competent rock to provide sufficient rock beyond the southern edge of the footing as the rock mass generally slopes from north to south. We recommend that the foundation subgrades be observed by the on-site geotechnical engineer to verify the allowable bearing pressures and that footing bottoms have been adequately cleaned. Before pouring concrete for footings, all water, debris, ice and snow should be removed from the footing subgrade. The above dimensions and embedments represent minimums. If the building code requirements differ, the more stringent requirements shall apply.

The critical performance criterion of the shallow foundation is the total and differential settlement of the foundation under the gravity and the transient loads. Based upon the variability of the subsurface conditions throughout the proposed structure, settlements of the structure would generally be less where footings bear upon fresh to slightly weathered Greenstone bedrock. The settlements will increase in magnitude as the structure transitions from bearing upon Greenstone bedrock to completely weathered rock to glacial till and to structural fill at the south edge of the structure. Based on our understanding of the structural loading conditions, the foundation dimensions, and the subsurface information described herein, we expect settlements would transition from less than 0.5 inches where footings bear on fresh to slightly weathered Greenstone bedrock to about 1.0 inch where footings bear on structural fill.

Ground-Floor Slabs

We recommend that ground-floor slabs be constructed as a slab-on-grade bearing on the natural glacial till, weathered rock, bedrock, or structural fill, as described herein. In the southern portion of the building, a removal and replacement program will be required to provide support for the slab-on-grade as outlined in the Removal of Unsuitable Material section of this report. Slabs-on-grade and site pads should be designed for modulus of subgrade reaction of 175 pounds per square inch per inch. Due to the groundwater conditions documented relative to the FFE of the structure, a permanent underdrain system will be required to relieve the hydrostatic pressure beneath the slab and allow construction of a slab-on-grade. We understand the permanent underdrain system is preferred compared to a hydrostatic, structural slab in combination with tie-down anchors.

Before slab-on-grade construction begins, all slab subgrade areas should be proofrolled with at least six passes of a smooth-drum vibratory roller having a minimum static drum weight of 5 tons. Any areas exhibiting excessive rutting or pumping should be removed and replaced with ¾-inch clean, durable, crushed stone or structural fill. See underdrain section of this report for requirements of material beneath the slab-on-grade. At this time, we recommend the ground

floor slab be water-proofed (such as Preprufe 300R manufactured by WR Grace or pre-approved equivalent). The waterproofing material should be placed between the slab and the crushed stone below.

Seismic Design Parameters

The subsurface conditions present throughout the project site would result in a seismic site classification of either “B” where footings bear upon Greenstone bedrock or a condition where there is no more than 10-feet of soil between the rock surface and the bottom of the spread footing, or “C” where there is more than 10 feet of soil between the rock surface and the bottom of the spread footing. If providing a seismic site classification of “B” would provide significant benefits to the project, we recommend additional borings be drilled along the southern edge of the proposed structure to determine the depth to rock. The recommendations provided subsequently are based upon the soil thickness below the footings.

According to the Connecticut State Building Code (IBC 2003 with 2009 Connecticut Supplement), the following are the seismic parameters for the site:

Seismic Design Parameter	Value
Site Class	“C”
0.2-Second Spectral Response Acceleration, S_s in short periods, in %g	$S_s = 24.5\%$
1.0-Second Spectral Response Acceleration, S_1 in second periods, in %g	$S_1 = 6.2\%$
Site Coefficient F_a	$F_a = 1.2$
Site Coefficient F_v	$F_v = 1.7$

It should be noted that since the structure will bear upon different subsurface materials, the seismic response of the structure may vary as well as mentioned above.

Below Grade Walls

Permanent below-grade walls should be designed to resist static and dynamic earth pressures. Backfill should not be placed against below-grade walls until the wall concrete has reached its 28-day compressive design strength and after either the ground floor slab has been completed, or temporary lateral bracing has been provided to prevent rotation of the wall and approved by the structural engineer.

Static Earth Pressure

We recommend that the below-grade foundation walls (i.e. non-yielding) be designed using a triangular earth pressure distribution having an equivalent fluid unit weight of 60 lb/ft² per foot of depth above the groundwater level. The lateral pressures from sidewalk and any other surcharge loads should be added as a uniform rectangular pressure equal to 45% of the vertical pressure applied down to the lowest basement level. Our recommended lateral earth pressure diagram is shown in Figure 6, and presumes the groundwater level to coincide with the bottom of the wall and the backfill to be level. The design lateral pressures provided presume the use of free-draining, structural backfill having less than 15% passing the No. 200 sieve as backfill behind the below grade walls. If full relief of hydrostatic pressure is not provided, the below-grade foundation walls should be designed using a triangular earth pressure distribution having an equivalent fluid unit weight of 92 lb/ft² per foot of depth below the groundwater level.

Dynamic Earth Pressures

The dynamic lateral earth pressure distribution is an inverted triangle having a maximum pressure at the ground surface of 11H lb/ft², where H is the wall height in feet. The pressure reduces to zero at the bottom of the wall. Lateral earth pressures resulting from the surcharge loads need not be considered for the dynamic loading condition.

Permanent Groundwater Control

In the vicinity of the proposed building, groundwater was encountered from approximately el. +130 to el. +106.5 which is up to approximately 10 feet above the proposed finished floor elevation of el. +120. Generally, the elevation of the groundwater slopes downward from north to south.

We recommend that any below-grade structures be fully waterproofed to the immediate exterior grade elevations. This will help prevent groundwater infiltration into the below-grade structures due to the static groundwater conditions, in the event of heavy rainfall, surface runoff, etc. We recommend a membrane-type waterproofing be used, such as the Preprufe and Bituthene products by WR Grace. The use of bentonite waterproofing or negative side crystalline waterproofing is not recommended. The vertical waterproofing should be protected with a rigid barrier to prevent damage during backfilling.

Outboard of the waterproofing membrane, we recommend the installation of prefabricated drainage panels extending from slightly below the ground surface to the bottom of the foundation wall to prevent the localized build-up of hydrostatic pressures. A prefabricated drainage panel, or drainage fill, is an appropriate drainage media. The panel can be used against

the waterproofing and will also provide protection during backfilling activities. The panel should be placed such that it is in direct contact with the backfill material.

A perimeter foundation drainage pipe should be installed around the proposed building, routed to the site drainage system by gravity and should be independent of any underslab hydrostatic relief system. Perimeter foundation drains should consist of perforated PVC pipe surrounded with $\frac{3}{4}$ -inch clean, durable, crushed stone and completely encased in a geosynthetic filter fabric. Clean-outs should be placed at regular intervals along the pipe alignment. The pipe associated with the gravel interceptor trench discussed below can be utilized in lieu of a perimeter foundation drain where applicable.

Should wall drainage not be provided, then all below-grade walls should be designed for hydrostatic conditions based on the design water level being equivalent to the adjacent exterior grade.

Underdrain System

We recommend that a properly designed underdrain system be installed beneath all slab areas. The underdrain system should consist of a minimum thickness of 10 inches of $\frac{3}{4}$ -inch clean, durable, crushed stone with 4-inch-diameter perforated structurally integral and durable PVC pipes routed to an internal sump pump. A geosynthetic filter fabric should be placed on the properly compacted and prepared subgrade surface before placing the stone. An interconnected network of pipes should be placed within this stone layer to route water to the internal sump pumps. At the pipe locations, the stone layer thickness should be increased to 12 inches with the pipes positioned in the center of the 12 inch trench such that 4 inches of stone is present above and below the pipes. Appropriately spaced clean-outs should be provided throughout the system and maintenance should be regular and routine such that the pipes do not become clogged. We request the slab underdrain details and perimeter wall drainage details be provided to us for our review and comment. Based on coordination with the design team, we expect that the design of the underdrain system will be included on the structural drawings for the project.

The above recommendations have been provided presuming the desired long term system to address groundwater levels observed above the proposed finished floor elevation of el. +120 consisting of an underslab drainage system in combination with perimeter wall drainage (i.e., full relief of hydrostatic pressure on below grade walls and beneath the slab on grade). This necessitates a long term pumping operation by establishing sump pits with primary and back-up sump pumps within the building. It is essential that the pumps are always operational for

the entire lifespan of the building as the design intent discussed above presumes full relief of hydrostatic pressure beneath the slab and behind the walls. The underslab drainage system should be connected to the site stormwater system and if feasible, via gravity flow. As a means of confirming the capacity of the underslab drainage system recommendations herein, we suggest the pumped volume of water at the beginning of the project construction operations be measured with a flow meter and provided to us for our review and comment.

In lieu of an active sump pumps, the sump pits may discharge via gravity flow. Positive drainage must be provided at all times such that the sump pits are maintained in a dry condition. The discharge lines should consist of 6-inch-diameter solid structurally integral and durable PVC pipes which connect to the site stormwater system.

Alternatively, a hydrostatic, structurally reinforced pressure slab could be utilized in combination with tie-down anchors as a supplement as required. This alternative would require underslab waterproofing in combination with the hydrostatic, structurally reinforced pressure slab which is connected to the structure to offset the associated uplift or is connected to the structure to offset the associated uplift in combination with tie-down anchors. If the hydrostatic, structurally reinforced pressure slab is to be considered, we could provide supplemental recommendations for this alternative at a later date.

Gravel Interceptor Trench

A gravel interceptor should be installed along the uphill below-grade foundation walls for the entire height of the wall to divert the seepage flowing out of the Greenstone rock face and around the proposed building. The interceptor trench should consist of ¾-inch, clean, durable stone and should be completely wrapped in a geotextile fabric to prevent the migration of fine-grained material into the clean gravel. The interceptor trench should be 1.5 feet wide and the top of the trench should be about 2 feet below the finished grade. At the base of the interceptor trench, an 8-inch diameter perforated, structurally durable, PVC pipe should be installed and routed around the building. The pipe should provide sufficient positive drainage to divert water around the structure and should connect to the site stormwater system at a minimum of two separate outlet locations. The installation of the interceptor trench presumes the Greenstone rock face will be over-blasted a minimum of 1.5 feet beyond the exterior edge of the wall of the structure or will be sloped. Alternatively vertical geosynthetic wrapped strip drains could be utilized in lieu of the interceptor trench at an appropriate spacing to route the seepage from the rock face to the perimeter foundation drain pipe surrounded with stone. A final determination of the required drainage mechanism at the rock face should be made during construction based on the observed quantity of lateral seepage.

CONSTRUCTION RECOMMENDATIONS

Our recommendations regarding site preparation, removal of unsuitable materials, rock excavation, subgrade preparation, fill placement and compaction and temporary groundwater control are presented below.

All earthwork-related work should be performed in accordance with environmental recommendations outlined in the report entitled "Phase II Environmental Site Investigation Report, West Haven, Connecticut," prepared by Langan Engineering and dated April 9, 2013 and technical specifications for handling and disposal of contaminated materials.

Site Preparation

Site development plans include demolition and removal of the existing site features. If parts of the existing buildings are encountered within 10 feet of the proposed new building footprint, existing foundations and floor slabs should be completely removed. In pavement and landscape areas, below-grade elements can be abandoned in place provided they are removed within 3 feet of finished subgrade levels and so as not to conflict with new site improvements including utilities and associated structures.

Foundations and slabs associated with existing structures should be cut and removed to a minimum of 2 feet below the bottom of proposed utilities. Slabs left in place should be sufficiently broken up to allow water to drain and so that a qualified observing geotechnical engineer can verify that no voids exist beneath the slab.

Utilities associated with the current development and designated for removal should also be completely removed within the proposed building footprint. Existing utilities outside of the proposed building footprint should be removed or abandoned in place by completely filling with grout.

Excavations made to remove below-grade elements should be backfilled with approved, compacted fill in accordance with the Fill and Compaction section of this report and any environmental requirements. Existing asphalt pavement and concrete walkways should be completely removed.

Clearing and grubbing of all trees (including removal of any associated root systems) and vegetation designated for removal should be performed. Buried tree debris should be completely removed beneath proposed building slab and footing locations. All debris and trees and other vegetation should be properly disposed off-site in accordance with applicable regulations. Topsoil should be stripped from the proposed building and pavement areas and should be stockpiled and protected from erosion. Topsoil should be evaluated by a landscape architect for reuse in landscape areas. All clearing and stripping activities should be performed

in strict accordance with the approved soil-erosion and sediment-control plan and the environmental reports prepared for the project.

All demolition and site clearing work should be performed in accordance with any environmental regulations and requirements established for the site as well as all local, state, and federal regulations. All construction work should be performed so as not to adversely impact the neighboring buildings, off-site structures or utilities, including the parts of existing utilities that are to remain as part of the proposed development. Protection of these elements should be provided as necessary during the course of all demolition and construction activities at the site. Prior to commencement of grading or fill placement, any miscellaneous trash, debris, or other unsuitable materials should be removed from the site.

Removal of Unsuitable Materials

We recommend all miscellaneous fill, silt, or otherwise deleterious material be removed from beneath all foundations and slab-on-grade areas until very dense glacial till material is encountered and replaced with structural fill or $\frac{3}{4}$ -inch clean, crushed durable stone. It should be noted that the softened interface of the silt to glacial till or material not designated as very dense glacial till should be removed as part of the removal and replacement program (i.e. base of excavation to el. +108.5 and el. +107 in borings LB-02 and LB-10, respectively). The limits of the removal and replacement program should extend beyond the edge of the slab, or the exterior edge of the foundation elements, to a sufficient depth to completely remove the unsuitable material within the zone of influence (i.e. 1H to 1V projection below slabs or footings to the top of very dense glacial till). The structural fill should be benched into the uphill side of the excavation in lifts such that a stepped hillside fill is constructed and filling on a sloped surface is avoided. Appropriate drainage mechanism should be incorporated to address seepage, which is encountered and facilitate backfilling in a dry condition.

Clean, crushed, $\frac{3}{4}$ -inch, compacted, durable stone could be used at the depressed water level to assist with the backfilling operation. If soil fill is to be utilized above the compacted stone, prior to placement of sand and gravel structural fill, a properly design geosynthetic filter fabric should be placed to serve as a separation layer between the stone and the soil fill to prevent the migration of underlying material into the stone. The geosynthetic should encase the stone on the top and sides at a minimum to prevent subsequent migration of soil into the stone layer. The intended geosynthetic along with the proposed gradation of fill material should be submitted to us for the review and comment.

If encountered, asphalt and any other unsuitable materials shall be removed from the proposed structure footprint and from pavement areas to the top of firm fill material prior to construction. Placement of additional fill materials in foundation areas, if required, should be performed in accordance with the Fill and Compaction recommendations outlined herein.

Subgrade Preparation

All footing subgrades, except rock subgrades, should be proofrolled with a 1-ton walk-behind vibratory roller. All slab subgrade areas should be proofrolled before placing any structural fill with six overlapping coverages of a vibratory drum roller having a minimum static drum weight of 5 tons. Additional proofrolling coverages should be performed in any areas deemed necessary based on observations made by a qualified Langan geotechnical engineer. Soft areas identified during proofrolling should be excavated and replaced with approved structural fill as described herein. The actual extent of necessary removal and replacement should be determined by a qualified Langan geotechnical engineer based on the actual field conditions encountered during construction. Care should be taken when proofrolling in the vicinity of any existing underground utilities that are to remain.

Soil footing subgrades should be excavated level and if any cobbles or boulders are encountered at the footing subgrade level such that a relatively level subgrade is not achieved, the cobbles or boulders should be removed and replaced with compacted structural fill, compacted $\frac{3}{4}$ -inch clean, durable, crushed stone (CONNDOT No. 6 stone per section M.01.01), or lean concrete. The top of all soil subgrades for footings or slabs should be compacted to the project specified compaction criteria (i.e. 95% of the materials maximum dry density within plus or minus 2% of the material's optimum moisture content).

Rock subgrades should be excavated level and such that un-shattered rock subgrades are provided at the bearing level. If over-blasting occurs, the shattered rock should be removed and replaced with lean concrete. The rock subgrade should be free of water, debris, and properly cleaned/prepared for observation by the geotechnical engineer. Footings should be directly cast on bedrock or lean concrete to level or infill rock undulations. Blasting for rock removal for adjacent footings should be performed such that the nature of the rock mass is not fractured or altered within the zone of influence of the footing (i.e. 1H to 1V projection from the bottom of the footings).

If foundations are not poured in a timely manner, consideration should be given to pouring a lean concrete mud mat to protect the footing subgrades.

Some over-excavation of rock may be required to provide transitions along wall footing or at column footing such that an appropriate transition can be provided beneath adjacent footings or along footings bearing at the elevation of bedrock and granular soils. The specific requirements will be based upon the field conditions observed at the subject location and the geotechnical engineer's subsequent recommendations.

Fill and Compaction

We recommend defining two types of fill, on-site structural fill and imported structural fill. On-site structural fill could consist of suitable soils excavated from other areas of the site if meeting the requirements below. The maximum particle size should be 4 inches and the on-site engineered fill should be free of organics, clay, roots, concrete, other non-soil constituents, other deleterious or compressible materials and contain less than 15% passing the No. 200 sieve. It should be noted that on-site fill and the underlying glacial till layer contain trace to some amounts of material passing the No. 200 sieve. Some of the on-site fill and glacial till materials may be re-useable as structural fill material; however it should be noted that the on-site silt is not re-usable as structural fill. On-site material meeting the requirements for structural fill may be re-used beneath slabs or paved areas, if meeting pavement design requirements, but not beneath footings or within the zone of influence of footings. The on-site fill material will need to be screened to remove all non-soil constituents or other deleterious material prior to re-use or blended with additional material to reduce the overall fines content. The near surface topsoil or on-site fill material containing organics associated with roots, etc. is not expected to be re-used and could be stockpiled for re-use in non-structural or landscaped areas. Imported structural fill should be well graded sand and gravel having a maximum particle size of 3 inches and no more than 15% passing the No. 200 sieve. Any approved imported fill should be “certified clean fill” free of hazardous substances and meeting all site, local and federal regulations. Imported structural fill to be used below all building structures and as backfill behind below-grade walls will need to meet the compaction requirements outlined below and have less than 15% passing the No. 200 sieve. On-site soils not meeting the gradation requirements described above can be used as general fill for site grading pavement areas, where acceptable and based on pavement design considerations, and landscape areas. Recycled Concrete Aggregate could be used as engineered fill in areas not behind foundation walls or below slabs having underslab drainage systems.

Structural fill should be placed in uniform 12-inch-thick loose lifts and compacted to at least 95% of its maximum dry unit weight as determined by ASTM test designation D1557. In restricted areas where only hand-operated compactors can be used, the maximum lift thickness should be limited to 8 inches. The appropriate water content at the time of compaction should be plus or minus two percentage points of optimum as determined by the laboratory compaction tests of proposed fill. No backfill material should be placed on areas where free water is standing or on frozen subsoil areas.

Temporary Groundwater Control

Groundwater was observed above the proposed lowest finished floor elevation of el. +120. See the groundwater section under subsurface conditions for additional information. In order to

maintain groundwater levels sufficiently below the subgrade level, the groundwater will need to be sufficiently maintained below the proposed below-grade excavation subgrade level to facilitate construction in a dry and stable environment.

It is anticipated that water infiltration to the foundation excavations can be controlled utilizing gravity-fed sump pumps via gravel trenches or sumps assisted with collector trenches; however the final dewatering measures required should be evaluated and designed by the contractor. The dewatering measures implemented should adequately dewater all foundation-related excavations such that compaction of footing subgrades and observation of weathered rock or rock subgrades is feasible.

Collection of rainwater runoff will also be needed during the excavation and subgrade preparation work. Water runoff is expected to be controlled with the use of gravel-lined collection trenches, pits and submersible pumps. Care should be taken to ensure that drainage is provided during all phases of excavation work. Environmental pretreatment of groundwater, if necessary, is beyond the scope of this work.

Rock Excavation

The top of more competent bedrock was encountered as high as approximately el. +137 within the proposed building footprint and was found to be decreasing moving from north to south. Based on the proposed bottom finished floor elevation of el. +120, bedrock is expected to be encountered during rough grading, foundation construction, retaining wall construction, and/or utility trench excavation. Heavy-duty specially adapted rock excavation techniques will be required to excavate to the required elevations in the areas where bedrock is encountered, and blasting will likely be required. Given the proximity of the surrounding existing structures, blasting may not be permitted. The actual means and methods required for rock excavation should be selected by the contractor based upon experience and capabilities.

Based on our subsurface investigation, the bedrock quality typically increased with depth. REC's from within the bedrock layer generally ranged from 63% to 100%, averaging approximately 91%. RQD's recorded within the first 5-foot-long core run below the top of rock typically ranged from 0 to 40% and averaged 24%, indicating a very poor quality, highly fractured rock condition. RQD's recorded within subsequent rock core runs typically ranged from 17 to 85% and average 57% indicating a fair quality rock condition.

The use of blasting methods may not be required for the poorer quality, highly fractured rock; however, blasting will likely be necessary for areas where deeper excavations are required in rock such as the northern portion of the site where RQD values are greater indicating a less

fractured rock mass. Further discussion should be had to determine if blasting will be permitted or is deemed feasible at this site.

A pre-blasting survey of adjacent structures and properties should be performed by the contractor to establish a baseline of existing conditions. All blasting should be performed in accordance with the applicable state and local regulations and in a manner such that no on-site or off-site structures or features are adversely impacted.

Excavations and Utilities

Excavations will be required for the installation of proposed utilities and associated structures. Based on the subsurface conditions identified during our investigation, we anticipate that excavations in soil or weathered bedrock (i.e. prior to auger refusal as typically delineated in the boring logs) can be performed using heavy-duty earthmoving equipment. Where Greenstone bedrock was encountered as delineated by auger refusal or rock coring, specialized rock excavation techniques will be required. It should be noted that decomposed (i.e. completely weathered or disintegrated to a soil), weathered rock and competent bedrock will be encountered during excavation for foundations and utilities in the vicinity of the proposed building. All excavations should be properly sloped or braced and conform with applicable OSHA regulations including, but not limited to, temporary shoring, trench boxes, temporary rock stabilization, or proper benching or both.

PRECONSTRUCTION SURVEY AND MONITORING

A pre-construction survey should be conducted of the adjacent buildings to remain, prior to commencement of the work. The preconstruction survey will serve as a baseline description of the surrounding structures. Additionally, survey and vibration monitoring should also be conducted prior to commencement of any blasting work, if required. The survey and vibration monitoring will provide baseline readings for the plumbness and elevation of the adjacent structures.

As previously discussed, if blasting of rock is permitted, a more detailed pre-blast survey will be required of the surrounding properties prior to blasting activities.

CONSTRUCTION DOCUMENTS AND QUALITY CONTROL

Technical specifications and design drawings should incorporate our recommendations to ensure that subsurface conditions and other geotechnical issues at the site are adequately addressed in the construction documents. Langan should assist the design team in preparing specification sections related to geotechnical issues such as earthwork, blasting/rock

excavation, dewatering and foundations. Langan should also review foundation drawings and details, and all contractor submittals and construction procedures related to geotechnical work.

A Langan Professional Engineer familiar with the site subsurface conditions and design intent should perform the engineering observation, monitoring, and testing of geotechnical-related work during construction. We recommend that Langan perform this work to verify proper implementation of our recommendations and to maintain continuity of our responsibility for this project. Construction activities that require quality-control observations include, but are not limited to, compacted fill-placement, removal and replacement, and subgrade preparation (footings).

LIMITATIONS

The conclusions and recommendations provided in this report are based on subsurface conditions inferred from a limited number of borings, as well as available architectural and site information. Recommendations provided are contingent upon one another and no recommendation should be followed independent of the others.

This report has been prepared to assist the architect and structural engineer in the design process and is only applicable to the envisioned project discussed herein. Any proposed changes in structures, their locations or elevations should be brought to our attention so that we can determine whether such changes affect our recommendations. Langan cannot assume responsibility for use of this report for any areas beyond the limits of this study or for any projects not specifically discussed herein.

Information on subsurface strata and groundwater levels shown on the logs represents conditions encountered only at the locations indicated and at the time of investigation. If different conditions are encountered during construction, they should immediately be brought to our attention for evaluation as they may affect our recommendations.

Environmental issues (such as potentially contaminated soil and groundwater) are outside the scope of this study and are addressed in a separate study.

CONCLUSION

We have appreciated being of service on this project, and look forward to working with you to successfully complete this project.

Very Truly Yours,
Langan Engineering & Environmental Services



Lee H. Chrisman
Project Engineer



Matthew E. Meyer, P.E.
Principal/Vice President

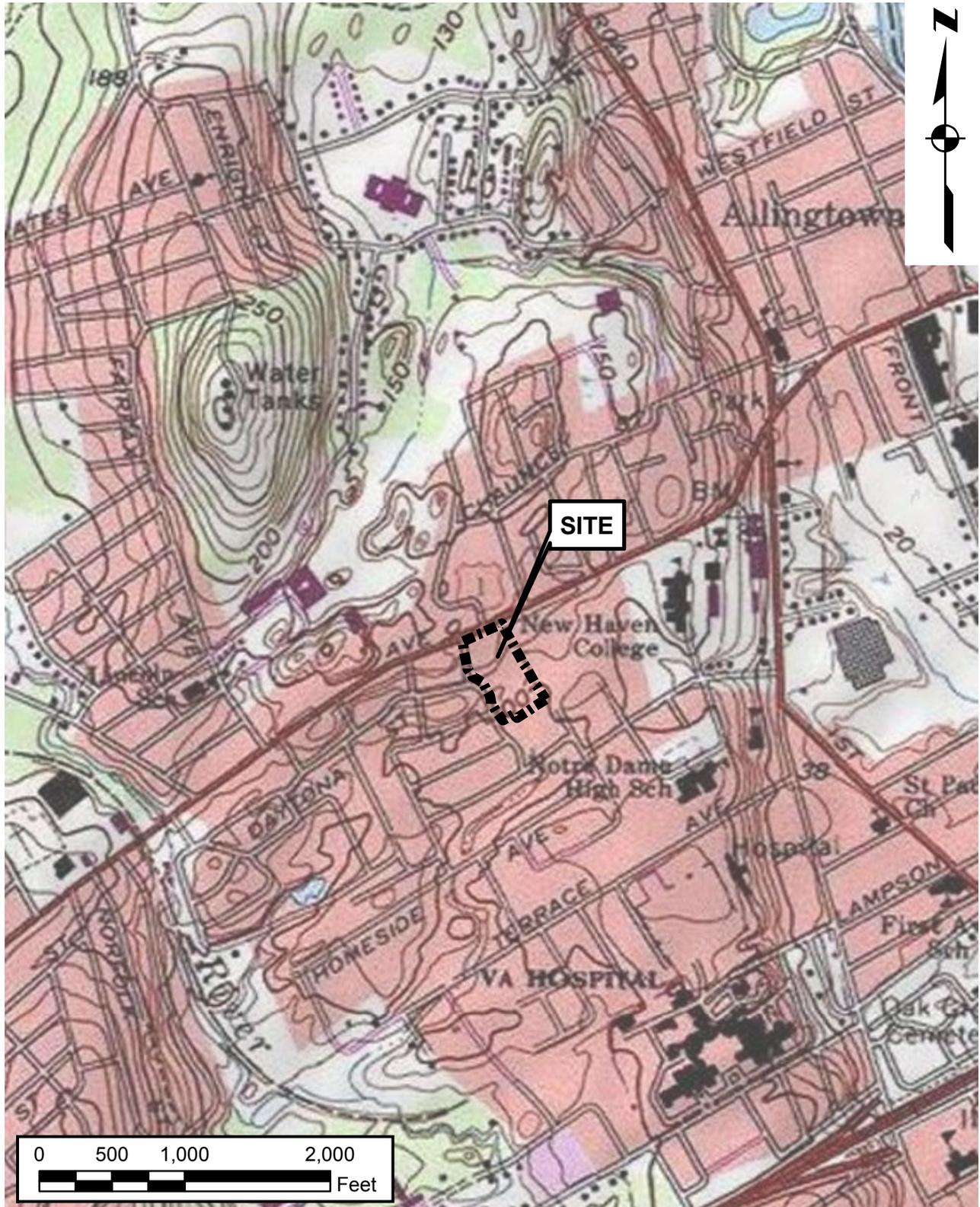
LHC/NA:mem/cpc

CC: Chris Cardany (Langan)
Paul Sheehan (MHA)

Enclosures: Figure 1 – USGS Map
Figure 2 – Investigation Location Plan
Figure 3 – Surficial Materials Map
Figure 4 – Bedrock Map
Figure 5 – FEMA Flood Map
Figure 6 – Lateral Earth Pressure Diagram

Appendix A – Boring Logs
Appendix B – Rock Probe Logs
Appendix C – Available Environmental Observation Well Installation Logs
Appendix D – Rock Testing Laboratory Results
Appendix E – Proposed Foundation Plan

FIGURES



REFERENCES: USGS QUADRANGLE MAP FOR WEST HAVEN, CONNECTICUT



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Project

USGS MAP

ENGINEERING & SCIENCE UNIVERSITY
 MAGNET SCHOOL - ROCKVIEW SITE

WEST HAVEN

CONNECTICUT

Project No.

140068601

Date

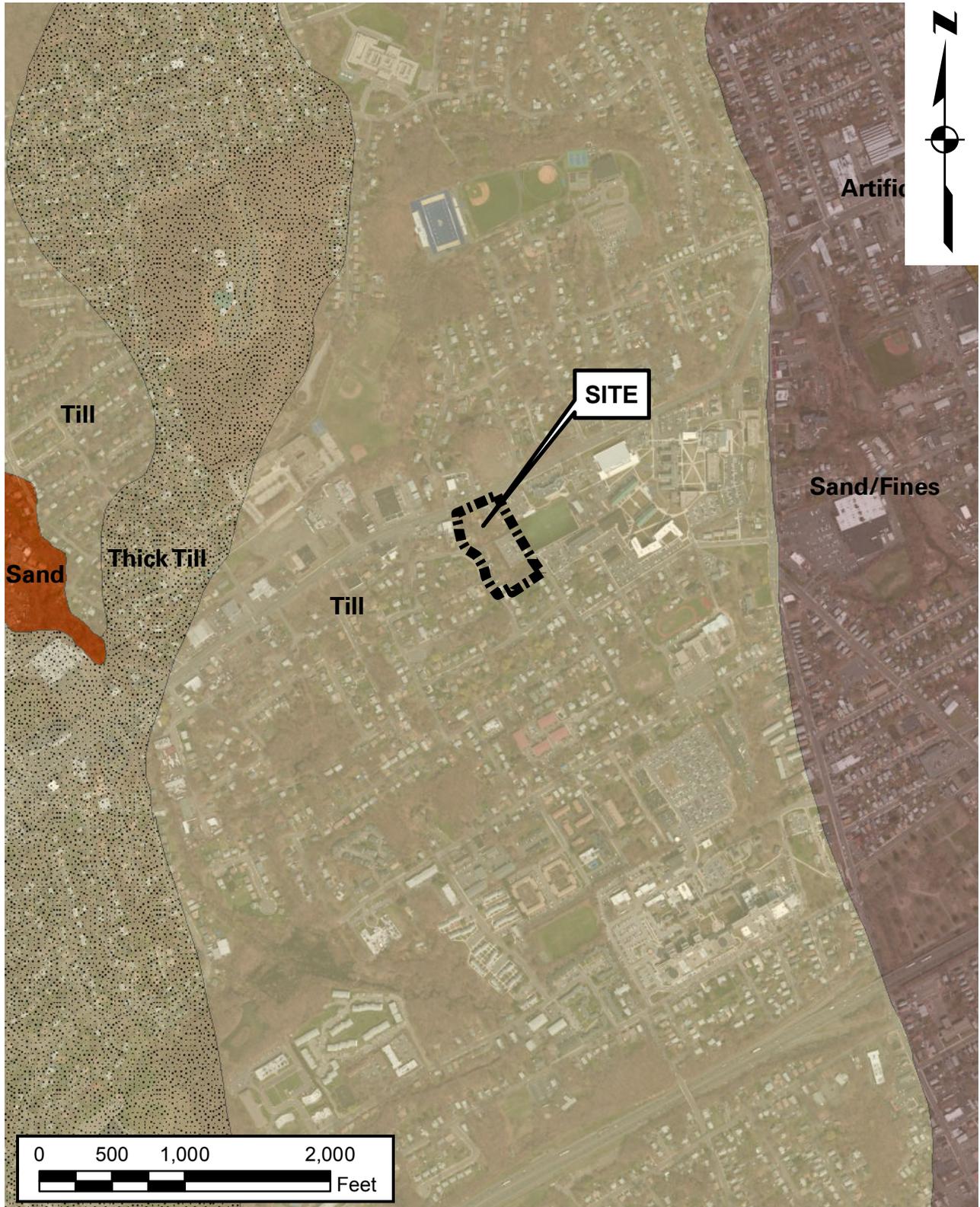
4/5/2013

Scale

1"=1,000'

Fig. No.

1



**REFERENCES: SURFICIAL MATERIALS MAP OF CONNECTICUT, DATED 1992,
CONNECTICUT GEOLOGICAL AND NATURAL HISTORY SURVEY**



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SURFICIAL MATERIALS MAP

ENGINEERING & SCIENCE UNIVERSITY
MAGNET SCHOOL - ROCKVIEW SITE

WEST HAVEN

CONNECTICUT

Project No.

140068601

Date

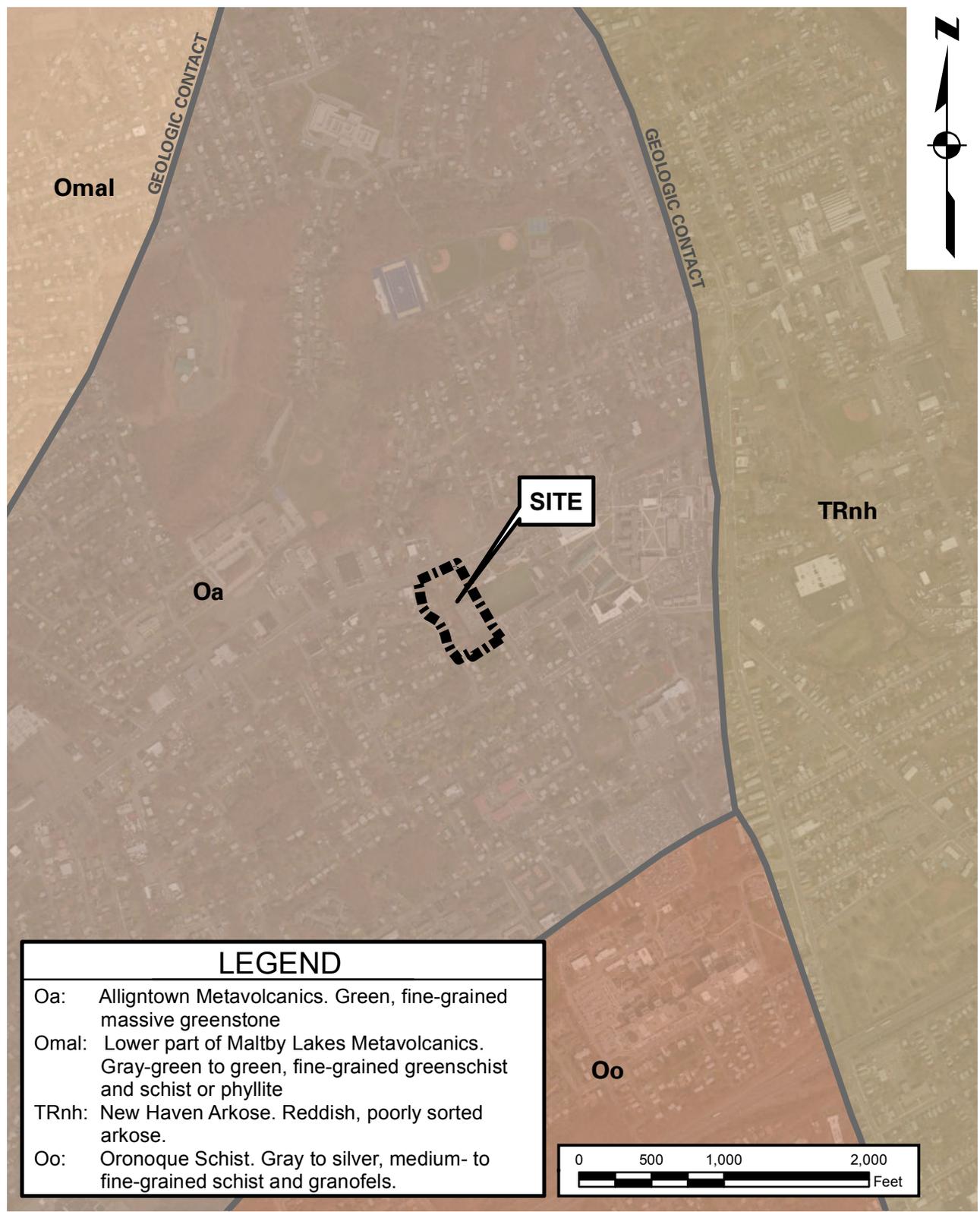
4/5/2013

Scale

1" = 1,000'

Fig. No.

3



LEGEND	
Oa:	Alligtown Metavolcanics. Green, fine-grained massive greenstone
Omal:	Lower part of Maltby Lakes Metavolcanics. Gray-green to green, fine-grained greenschist and schist or phyllite
TRnh:	New Haven Arkose. Reddish, poorly sorted arkose.
Oo:	Oronoque Schist. Gray to silver, medium- to fine-grained schist and granofels.



REFERENCES: BEDROCK GEOLOGICAL MAP OF CONNECTICUT, DATED 1985, CONNECTICUT GEOLOGICAL AND NATURAL HISTORY SURVEY

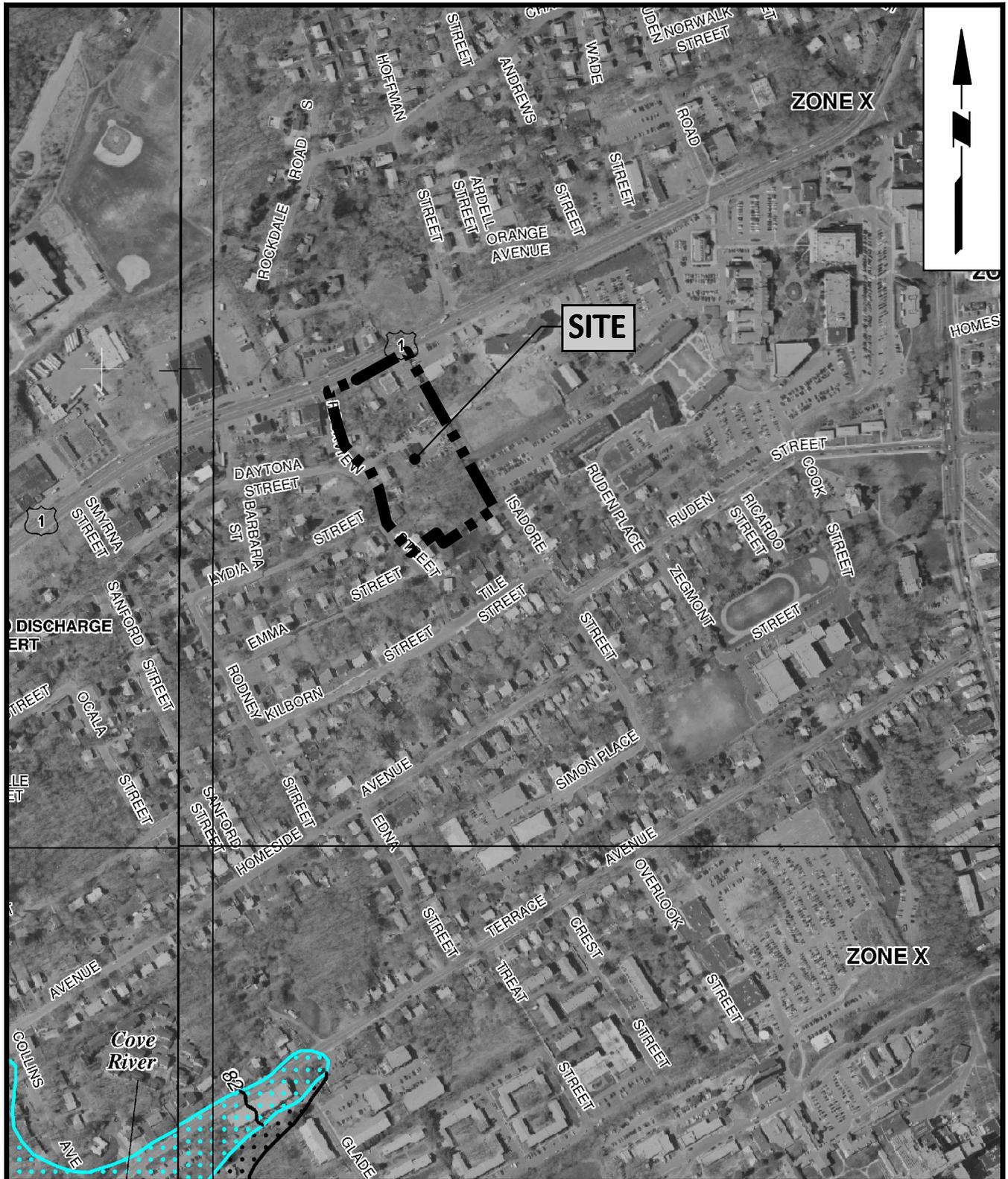
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Project			
BEDROCK MAP			
ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL - ROCKVIEW SITE			
WEST HAVEN		CONNECTICUT	
Project No.	Date	Scale	Fig. No.
140068601	4/5/2013	1"=1,000'	4



REFERENCES: "FLOOD INSURANCE RATE MAPS" NEW HAVEN COUNTY, PANELS 436 AND 437 OF 635, MAP NUMBERS 09009C0436H AND 09009C0437H, EFFECTIVE 17 DECEMBER 2010.

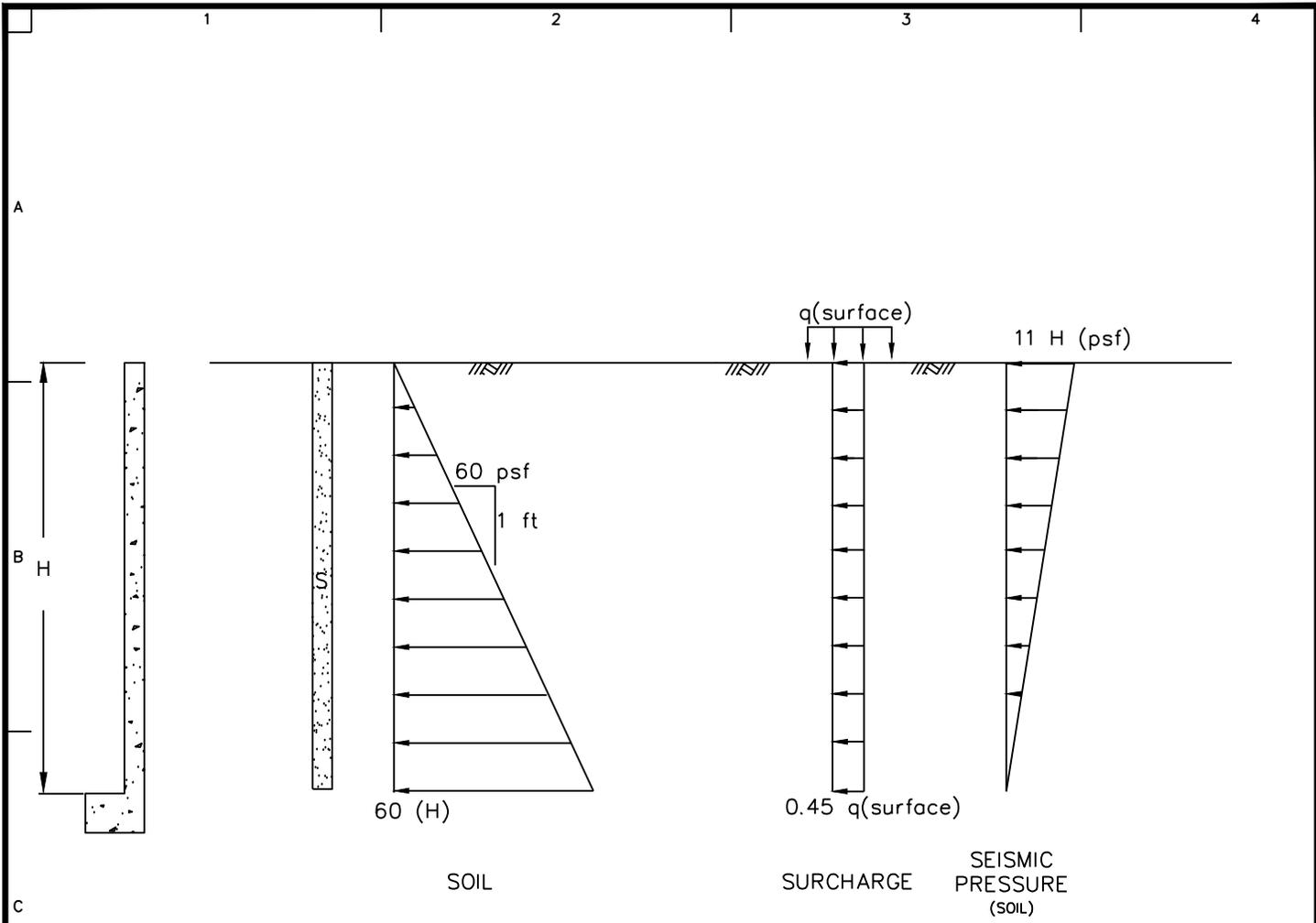


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NEW JERSEY PENNSYLVANIA NEW YORK CONNECTICUT FLORIDA
 NEVADA VIRGINIA CALIFORNIA

Project **FEMA FLOOD MAP**
 ENGINEERING & SCIENCE UNIVERSITY
 MAGNET SCHOOL-ROCKVIEW SITE
 WEST HAVEN CONNECTICUT

Project No.	Date	Scale	Fig. No.
140068601	2/15/2012	1"=500'	5



LATERAL PRESSURE FOR BELOW-GRADE WALLS

NOTES:

1. DIAGRAMS SHOWN ARE A SIMPLIFIED YET CONSERVATIVE REPRESENTATIVE OF VARIOUS LATERAL LOADS FOR USE IN DESIGN OF THE PERIMETER FOUNDATION WALLS AND FLOOR.
2. H = HEIGHT OF FOUNDATION WALL; H_w = HEIGHT OF GROUNDWATER OUTSIDE FOUNDATION WALL.
3. THE ABOVE DIAGRAM PRESUMES THE GROUNDWATER LEVEL AT OR BELOW THE BOTTOM OF FOUNDATION.

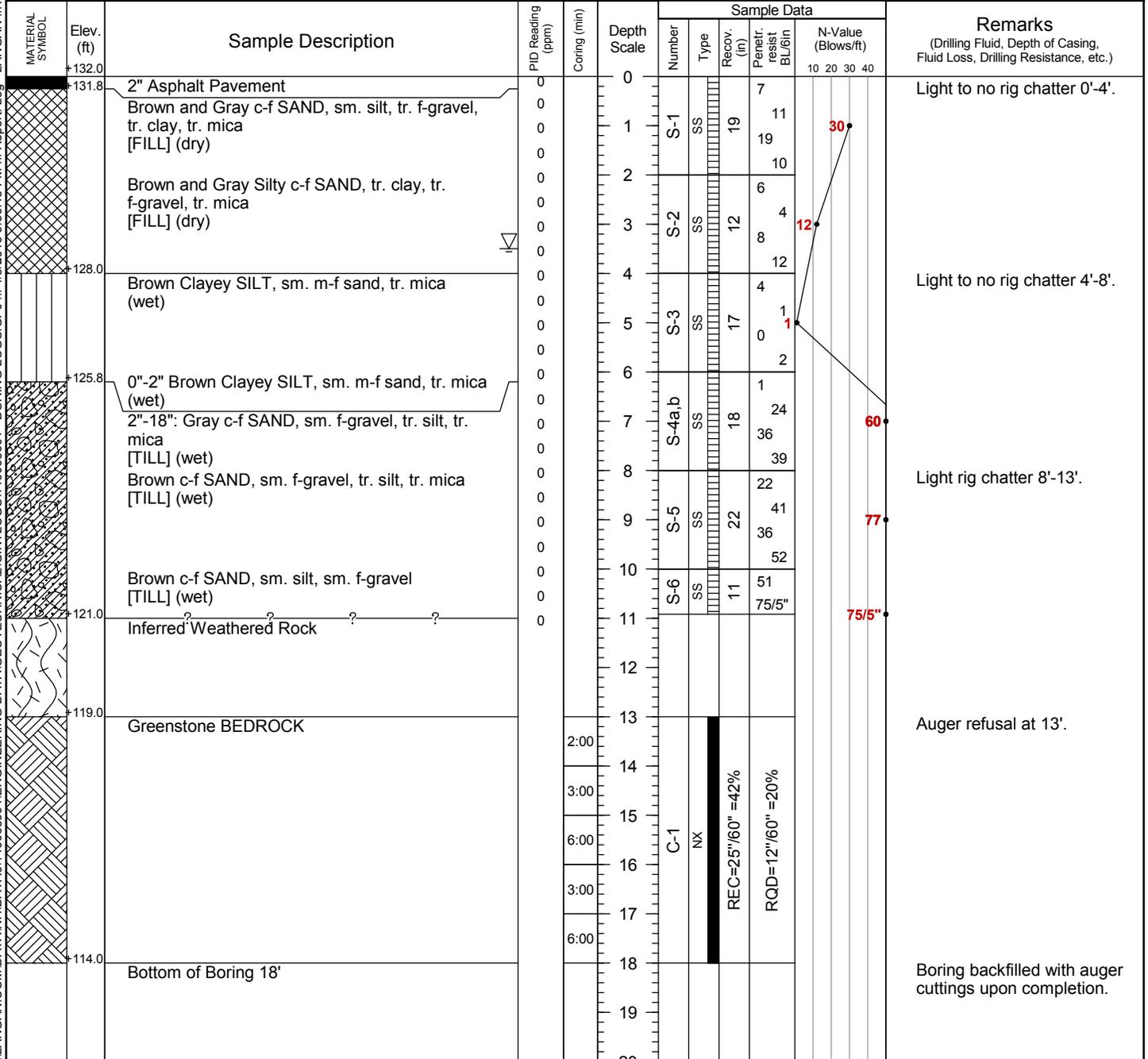
<p>555 Long Wharf Drive New Haven, CT 06511 T: 203.562.5771 F: 203.789.6142 www.langan.com Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. Langan Engineering and Environmental Services, Inc. Langan International LLC Collectively known as Langan</p>	Project	Drawing Title	Project No.	Drawing No.	
	ENGINEERING & SCIENCE UNIVERSITY MAGNET SCHOOL - ROCKVIEW SITE	LATERAL EARTH PRESSURE DIAGRAM	140068601		
	WEST HAVEN	CONNECTICUT	Date		6
			4/5/2013		
			Scale		
		NTS			
		Drawn By			
		Submission Date			

Appendix A

Boring Logs

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Project Engineering & Science University Magnet School				Project No. 140068601				
Location Rockview Site, West Haven, Connecticut				Elevation and Datum Approx. el. 132 NGVD 1929				
Drilling Company Soiltesting, Inc.				Date Started 1/31/12		Date Finished 1/31/12		
Drilling Equipment Diedrich D50 Turbo Truck Mounted Drill Rig				Completion Depth 18 ft		Rock Depth 13 ft		
Size and Type of Bit 3.75" ID Hollow Stem Auger				Number of Samples		Disturbed 6	Undisturbed 0	Core 1
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 3.5		Completion --	24 HR. --	
Casing Hammer N/A		Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Tom Page				
Sampler 2" OD Split Spoon				Inspecting Engineer Kyle Zalaski				
Sampler Hammer Safety		Weight (lbs) 140	Drop (in) 30					



Project Engineering & Science University Magnet School				Project No. 140068601			
Location Rockview Site, West Haven, Connecticut				Elevation and Datum Approx. el. 114 NGVD 1929			
Drilling Company Soiltesting, Inc.				Date Started 1/31/12		Date Finished 1/31/12	
Drilling Equipment Diedrich D50 Turbo Truck Mounted Drill Rig				Completion Depth 12 ft		Rock Depth 12 ft	
Size and Type of Bit 3.75" ID Hollow Stem Auger				Number of Samples		Disturbed 7	Undisturbed 0
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Water Level (ft.) First 6	Completion 3.3
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		24 HR. --	
Sampler 2" OD Split Spoon				Drilling Foreman Tom Page			
Sampler Hammer Safety		Weight (lbs) 140		Drop (in) 30		Inspecting Engineer Kyle Zalaski	

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist Bl/ft		N-Value (Blows/ft)
	+114.0	Brown to Grey c-f SAND, sm. mica, tr. f-gravel, tr. silt [FILL] (dry)	0						Asphalt ground cover very poor (deteriorating). Light to no rig chatter 0'-4'.
	+112.0	Brown Clayey SILT, sm. m-f sand, tr. mica (moist)	1	S-1	SS	6	41	65	
	+110.0	Brown c-f SAND, sm. f-gravel, sm. silt, sm. mica [TILL] (moist)	2				17		Light to no rig chatter 4'-8'.
	+104.0	Brown and Gray c-f SAND, sm. f-gravel, sm. mica, tr. silt [TILL] (wet)	3	S-2	SS	13	12	18	
	+102.0	Brown and Gray c-f SAND, sm. f-gravel, sm. silt, sm. mica [TILL] (wet)	4				6		Light to no rig chatter 8'-12'.
		Gray WEATHERED ROCK Fragments, sm. m-f sand, sm. silt [WEATHERED BEDROCK] (wet)	5	S-3	SS	13	12	25	
		Bottom of Boring 12'	6				14		Auger refusal at 12'. Boring backfilled with auger cuttings upon completion. Asphalt cold patch installed.
			7	S-4	SS	24	36	81	
			8				45		
			9	S-5	SS	19	22	56	
			10				34		
			11	S-6	SS	4	75		
			12				50		
			13	S-7	SS	0	50/0"	50/0"	

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Project Engineering & Science University Magnet School				Project No. 140068601			
Location Rockview Site, West Haven, Connecticut				Elevation and Datum Approx. el. 114 NGVD 1929			
Drilling Company Soiltesting, Inc.				Date Started 1/31/12		Date Finished 1/31/12	
Drilling Equipment Diedrich D50 Turbo Truck Mounted Drill Rig				Completion Depth 8 ft		Rock Depth N/E	
Size and Type of Bit 3.75" ID Hollow Stem Auger				Number of Samples		Disturbed 4	
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Undisturbed 0	
Casing Hammer N/A				Weight (lbs) N/A		Drop (in) N/A	
Sampler 2" OD Split Spoon				Water Level (ft.) First N/E		Completion --	
Sampler Hammer Safety				Weight (lbs) 140		Drop (in) 30	
				Drilling Foreman Tom Page			
				Inspecting Engineer Kyle Zalaski			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist Bl/ft		N-Value (Blows/ft)
	+114.0	6" Topsoil		0						Light to no rig chatter 0'-4'. Clean 3/4" stone encountered 6'-8'. Possible drainage bedding material. Did not penetrate drainage line. Offset 5' West and performed boring LB-3B. Boring backfilled with auger cuttings upon completion.
	+113.5	Dark Brown c-f SAND, sm. f-gravel, sm. mica, tr. silt, tr. brick [FILL] (dry)		1	S-1	SS	17	16	26	
		Dark Brown c-f SAND, sm. silt, sm. f-gravel, sm. mica, tr. brick [FILL] (dry)		2				24		
		Dark Brown c-f SAND, sm. silt, sm. f-gravel, sm. mica, tr. brick [FILL] (dry)		3	S-2	SS	12	21	36	
		Dark Brown c-f SAND, sm. silt, sm. f-gravel, sm. mica, tr. brick, tr. roots [FILL] (dry)		4				14		
		Dark Brown c-f SAND, sm. silt, sm. f-gravel, sm. mica, tr. brick, tr. roots [FILL] (dry)		5	S-3	SS	6	12	22	
		Clean 3/4" GRAVEL [FILL] (dry)		6				10		
				7	S-4	SS	4	5	10	
				8				5		
	+106.0	Bottom of Boring 8'		8				7		

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Project Engineering & Science University Magnet School				Project No. 140068601				
Location Rockview Site, West Haven, Connecticut				Elevation and Datum Approx. el. 114 NGVD 1929				
Drilling Company Soiltesting, Inc.				Date Started 1/31/12		Date Finished 1/31/12		
Drilling Equipment Diedrich D50 Turbo Truck Mounted Drill Rig				Completion Depth 24 ft		Rock Depth 24 ft		
Size and Type of Bit 3.75" ID Hollow Stem Auger				Number of Samples		Disturbed 9	Undisturbed 0	Core 0
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 7.5		Completion --	24 HR. --	
Casing Hammer N/A		Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Tom Page				
Sampler 2" OD Split Spoon				Inspecting Engineer Kyle Zalaski				
Sampler Hammer Safety		Weight (lbs) 140	Drop (in) 30					

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist Bl/ft	N-Value (Blows/ft)		
	+114.0			0							Boring LB-03B offset 5' west of LB-03A due to encountered of stone bedding at 6'-8' in LB-03A. Light to no rig chatter 0'-4'.
	+110.0	Reddish Brown Silty f-SAND, sm. mica, tr. clay [TILL] (dry)		4							No rig chatter 4'-8'.
		0"-11": Reddish Brown Silty f-SAND, sm. mica, tr. f-gravel, tr. clay [TILL] (dry)		5	S-3	SS	7		7	16	
		11"-17": Reddish Brown m-f SAND, sm. silt, tr. mica [TILL] (dry to wet)		6			7		9		
		Brown c-f SAND, tr. silt, tr. mica [TILL] (wet)		7	S-4a,b	SS	17		17	39	Light rig chatter 8'-15'.
		Reddish Brown Silty c-f SAND, sm. f-gravel [TILL] (wet)		8			17		22		
				9	S-5	SS	16		20	29	
				10			16		18		
				11	S-6	SS	24		14	50	
				12			24		28		
				13			24		26		
				14							
		Light Brown and Gray Silty m-f SAND, sm. mica, tr. f-gravel, tr. weathered rock [TILL] (wet)		15	S-7	SS	18		49	72/6"	Light rig chatter 15'-20'.
				16			18		47		
				17					72/6"		
				18							
				19							
	+95.0	?		20							

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Log of Boring

LB-03B

Sheet

2

of

2

Project		Project No.							
Engineering & Science University Magnet School		140068601							
Location		Elevation and Datum							
Rockview Site, West Haven, Connecticut		Approx. el. 114 NGVD 1929							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr. resist. BL/6in	
	+90.0	Light Brown and Gray WEATHERED ROCK Fragments, sm. f-sand, sm. silt [WEATHERED BEDROCK] (wet)		20			15		Light rig chatter 20'-24'.
				21	S-8	SS	19	47 27 40	
		No Recovery Bottom of Boring 24'		24	S-9	SS	50/0"	50/0"	Auger refusal at 24'. Boring backfilled with auger cuttings upon completion.
				25					
				26					
				27					
				28					
				29					
				30					
				31					
				32					
				33					
				34					
				35					
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				45					

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Project Engineering & Science University Magnet School				Project No. 140068601			
Location Rockview Site, West Haven, Connecticut				Elevation and Datum Approx. el. 99 NGVD 1929			
Drilling Company Soiltesting, Inc.				Date Started 1/31/12		Date Finished 1/31/12	
Drilling Equipment Diedrich D50 Turbo Truck Mounted Drill Rig				Completion Depth 12 ft		Rock Depth 12 ft	
Size and Type of Bit 3.75" ID Hollow Stem Auger				Number of Samples Disturbed 6 Undisturbed 0 Core 0			
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 7.5 Completion --		24 HR. --	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Tom Page	
Sampler 2" OD Split Spoon				Inspecting Engineer Kyle Zalaski			
Sampler Hammer Safety		Weight (lbs) 140		Drop (in) 30			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist. BL/ft		N-Value (Blows/ft)
	+99.0			0						
	+98.5	8" Topsoil		0						No rig chatter 0'-4'.
		Brown SILT, tr. f-sand, tr. roots, tr. f-gravel, tr. clay [FILL] (moist)		1	S-1	SS	12	6	29	
		Reddish Brown Silty f-SAND, sm. mica, tr. clay [FILL] (moist)		2				3		
	+95.0	Light Gray and Yellow Brown Silty f-SAND, sm. mica, tr. clay [TILL] (moist)		3	S-2	SS	18	6	14	
		Reddish Brown c-f SAND, sm. silt, sm. mica [TILL] (moist)		4				8		Light to heavy rig chatter 4'-8'.
		Light Gray and Yellow Brown Silty f-SAND, sm. mica, tr. clay [TILL] (moist)		5	S-3a,b	SS	15	6		
		Reddish Brown c-f SAND, sm. silt, sm. mica [TILL] (moist)		6				26		Inferred boulder at 5.5' Auger to 8'
	+92.0	Gray WEATHERED ROCK Fragments, tr. f-sand, sm. silt [WEATHERED ROCK] (wet)		7				65/6"		
		No Recovery		8						
				9	S-4	SS	10	22		Light rig rig chatter 8'-10.25'.
				10				39		
				11	S-5	SS	3	50/5"		
	+87.0	No Recovery Bottom of Boring 12'		12	S-6	SS	0	50/0"		Auger refusal at 12'. Boring backfilled with auger cuttings upon completion.
				13						
				14						
				15						
				16						
				17						
				18						
				19						
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Project Engineering & Science University Magnet School				Project No. 140068601				
Location Rockview Site, West Haven, Connecticut				Elevation and Datum Approx. el. 131 NGVD 1929				
Drilling Company Soiltesting, Inc.				Date Started 9/20/12		Date Finished 9/20/12		
Drilling Equipment Diedrich D50 Turbo Truck Mounted Drill Rig				Completion Depth 6 ft		Rock Depth 1 ft		
Size and Type of Bit 3.75" ID Hollow Stem Auger				Number of Samples		Disturbed 1	Undisturbed 0	Core 1
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.)		First ▽ N/D	Completion ▽ --	24 HR. ▽ --
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Phil DeAngelis		
Sampler 2" OD Split Spoon				Inspecting Engineer Alison Suarato				
Sampler Hammer Safety		Weight (lbs) 140		Drop (in) 30				

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist. BL/6in		N-Value (Blows/ft)
	+131.0			0						
	+130.5	5-inch TOPSOIL tr. roots, tr. wood, tr. f-gravel [TOPSOIL] (dry)			S-1	SS	5	16		
	+130.0	Gray c-f SAND, tr. silt, sm. f-gravel, tr. roots, tr. weathered rock [TILL] (dry)	1:30	1			100/5"		100/5"	Auger to 1' Heavy rig chatter Auger refusal at 1' Start Coring at 1'
		Gray GREENSTONE [BEDROCK]	1:30	2						Fluid loss from 2-6' Ground water elevation not determined (N/D) due to rock coring process
			1:30	3						
			1:30	4	C-1	NX	REC=60"/60" =100%	RQD=24"/60" =40%		
			1:20	5						
			1:30	6						End Coring at 6' Boring backfilled with auger cuttings upon completion
	+125.0	End of boring at 6'-0"		6						
				7						
				8						
				9						
				10						
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Project Engineering & Science University Magnet School				Project No. 140068601				
Location Rockview Site, West Haven, Connecticut				Elevation and Datum Approx. el. 125 NGVD 1929				
Drilling Company Soiltesting, Inc.				Date Started 9/20/12		Date Finished 9/20/12		
Drilling Equipment Diedrich D50 Turbo Truck Mounted Drill Rig				Completion Depth 12 ft		Rock Depth 3.5 ft		
Size and Type of Bit 3.75" ID Hollow Stem Auger				Number of Samples		Disturbed 2	Undisturbed 0	Core 2
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.)		First ▽	Completion ▽	24 HR. ▽
Casing Hammer N/A		Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Phil DeAngelis				
Sampler 2" OD Split Spoon				Inspecting Engineer Alison Suarato				
Sampler Hammer Safety		Weight (lbs) 140	Drop (in) 30					

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr. resist BL/ft		N-Value (Blows/ft)	
	+125.0			0							
	+124.5	6" Tan-Brown m-f SAND, sm. silt, tr. roots, f-gravel [FILL] (dry)		0	S-1	A,B	6				Auger to 3.5' Heavy grinding rig chatter Ground water elevation not determined (N/D) due to rock coring process
		Brown and Gray Rock Fragments [WEATHERED ROCK] (dry)		1		SS	13			47	
		Gray m-f SAND, sm. weathered rock fragments [WEATHERED ROCK] (dry)		2	S-2	SS	3	100/3"		100/3"	
	+121.5	Gray GREENSTONE [BEDROCK]		3							Auger refusal at 3.5' Start Coring at 3.5'
			1:15	4							
			2:20	5							End Coring at 8.5' Start Coring at 8.5'
			2:10	6	C-1	NX	REC=51"/60" =85%	RQD=0"/60" =0%			
			1:50	7							
			2:45	8							
		Gray GREENSTONE [BEDROCK]		9							Core barrel plugged at 12' End Coring at 12' Borehole backfilled with auger cuttings upon completion
			1:35	9							
			1:15	10	C-2	NX	REC=42"/42" =100%	RQD=0"/42" =0%			
			2:00	11							
	+113.0	End of Boring at 12'-0"		12							
			2:06	12							
				13							
				14							
				15							
				16							
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Project Engineering & Science University Magnet School				Project No. 140068601			
Location Rockview Site, West Haven, Connecticut				Elevation and Datum Approx. el. 125 NGVD 1929			
Drilling Company Soiltesting, Inc.				Date Started 9/20/12		Date Finished 9/20/12	
Drilling Equipment Diedrich D50 Turbo Truck Mounted Drill Rig				Completion Depth 12 ft		Rock Depth 8.5 ft	
Size and Type of Bit 3.75" ID Hollow Stem Auger				Number of Samples		Disturbed 2	
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Undisturbed 0	
Casing Hammer N/A				Weight (lbs) N/A		Drop (in) N/A	
Sampler 2" OD Split Spoon				Water Level (ft.) First N/D		Completion 24 HR. --	
Sampler Hammer Safety				Weight (lbs) 140		Drop (in) 30	
				Drilling Foreman Phil DeAngelis			
				Inspecting Engineer Alison Suarato			

Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist BL/6in	
125.0			0					
124.6	4" TOPSOIL		1	S-1	SS	14		Auger to 3.5' Grinding rig chatter Ground water elevation not determined (N/D) due to rock coring process
	Tan-Brown m-f SAND, sm. silt, sm. f-gravel, sm. rock fragments [TILL] (dry)					16		
						21		
123.0	Light Brown m-f SAND, sm. weathered rock fragments [WEATHERED ROCK] (dry)		2	S-2	SS	7		Auger refusal at 3.5' Start Coring at 3.5'
	WEATHERED ROCK					22		
			3			100/5"		
		0:35	4					
		0:35	5					
		0:45	6	C-1	NX	REC=2"/60" =3%	RQD=0"/60" =0%	
		0:50	7					
		0:40	8					
116.5	Gray GREENSTONE [BEDROCK]	2:30	9					End Coring at 8.5' Start Coring at 8.5'
		2:05	10					
		2:05	11	C-2	NX	REC=38"/60" =63%	RQD=10"/60" =17%	
		2:10	12					
		2:10	13					
111.5	End of boring @ 13'-6"		14					End Coring at 13.5' Borehole backfilled with auger cuttings upon completion and patched with portland cement.
			15					
			16					
			17					
			18					
			19					
			20					

Project Engineering & Science University Magnet School				Project No. 140068601			
Location Rockview Site, West Haven, Connecticut				Elevation and Datum Approx. el. 134.2 NGVD 1929			
Drilling Company Soiltesting, Inc.				Date Started 3/13/13		Date Finished 3/13/13	
Drilling Equipment Diedrich D50 Turbo Truck Mounted Drill Rig				Completion Depth 24 ft		Rock Depth 4 ft	
Size and Type of Bit 3.75" ID Hollow Stem Auger				Number of Samples		Disturbed	
Casing Diameter (in) 3.0" Diameter Casing				Casing Depth (ft) 9		Undisturbed	
Casing Hammer N/A				Weight (lbs) N/A		Drop (in) N/A	
Sampler 2" OD Split Spoon				Water Level (ft.) First N/D		Completion 24 HR. --	
Sampler Hammer Safety				Weight (lbs) 140		Drop (in) 30	
				Drilling Foreman Tom Page			
				Inspecting Engineer Neritan Axhushi			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist. Bl/ft		N-Value (Blows/ft)
	+134.2			0						
	+134.0	2" GRAVEL		0			9			Start Boring at 8:30 am
		Dark Brown c-f SAND, some silt, few f-gravel, trace brick [FILL] (moist)		1	S-1	SS	10	18		
				2			13			Auger to 2'
	132.2	Light Brown m-f SAND, few c-sand, few silt [TILL] (moist)		2	S-2	SS	10	18		
				3			21			Auger to 4'
	130.7	Inferred Weathered Rock		3			50/4"			Hard drilling and rig chatter from 3' to 4'
	130.2	Gray GREENSTONE [BEDROCK]		4						Auger Refusal - Drilled casing to 4 feet
			1:12	5						Ground water elevation not determined (N/D) due to rock coring process
			4:57	6	Run #1	NX CORE	REC=60"/60" = 100%	RQD=22.5"/60" = 38%		Start Coring at 9:44 am
			3:18	7						
			1:59	8						
			2:14	9						
		Gray GREENSTONE with intrusions of marble [BEDROCK]	1:26	10						End of coring at 10:04 am
			1:30	11	Run #2	NX CORE	REC=60"/60" = 100%	RQD=44"/60" = 73%		Start of coring at 10:25 am
			2:26	12						
			3:31	13						
			3:17	14						
		Gray GREENSTONE [BEDROCK]	2:40	15						End of coring at 10:38 am
			3:50	16	Run #3	NX CORE	REC=60"/60" = 100%	RQD=51.5"/60" = 86%		- Drill casing to 9'
			3:19	17						Start of coring at 11:28 am
			3:19	18						
			3:17	19						
		Gray GREENSTONE [BEDROCK]	2:37	20						End of coring at 12:12 pm

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Log of Boring

LB-08

Sheet

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Project		Project No.											
Engineering & Science University Magnet School		140068601											
Location		Elevation and Datum											
Rockview Site, West Haven, Connecticut		Approx. el. 134.2 NGVD 1929											
MATERIAL SYMBOL	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)				
					Number	Type	Recov. (in)	Penetr. resist. BL/6in		N-Value (Blows/ft)			
				20					10	20	30	40	
			3:16	21									
			2:28	22									
			1:53	23									
			1:13	24									
	110.2	End of Boring at 24'-0"		25									
				26									
				27									
				28									
				29									
				30									
				31									
				32									
				33									
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Seam of weathered rock was observed from 23 to 24 feet. Darker colored water return was observed during this drilling.
 End of coring at 12:24 pm
 Borehole backfilled with auger cuttings upon completion and patched with portland cement.

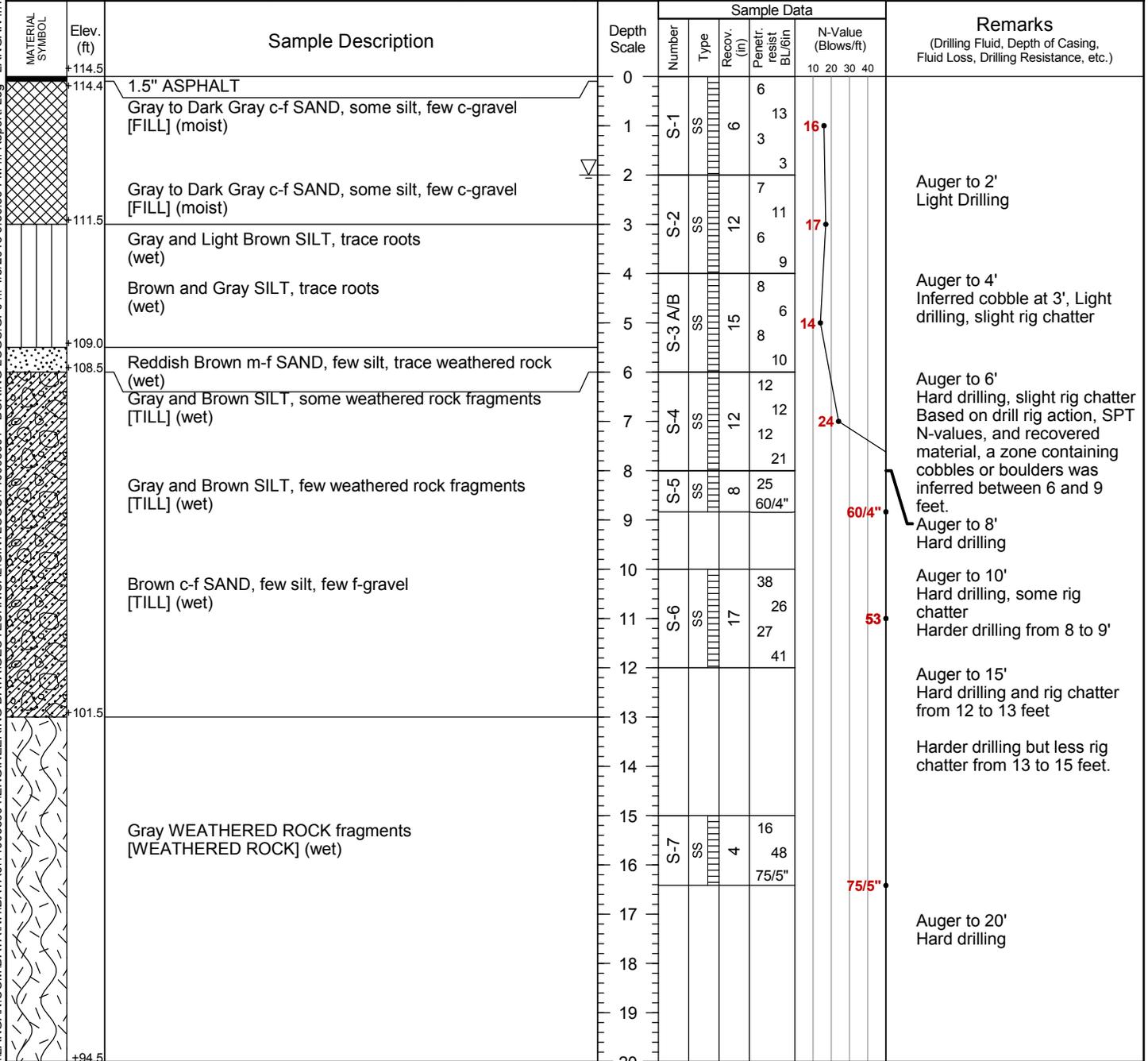
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Project Engineering & Science University Magnet School				Project No. 140068601				
Location Rockview Site, West Haven, Connecticut				Elevation and Datum Approx. el. 137.5 NGVD 1929				
Drilling Company Soiltesting, Inc.				Date Started 3/13/13		Date Finished 3/13/13		
Drilling Equipment Diedrich D50 Turbo Truck Mounted Drill Rig				Completion Depth 17.5 ft		Rock Depth 3 ft		
Size and Type of Bit 3.75" ID Hollow Stem Auger				Number of Samples		Disturbed 1	Undisturbed 0	Core 3
Casing Diameter (in) 3.0" Diameter Casing		Casing Depth (ft) 4		Water Level (ft.)		First ▽ N/D	Completion ▽ --	24 HR. ▽ --
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Tom Page					
Sampler 2" OD Split Spoon			Inspecting Engineer Neritan Axhushi					
Sampler Hammer Safety	Weight (lbs) 140	Drop (in) 30						

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Coring (min)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr. resist Bl/ft		N-Value (Blows/ft)
	+137.5	6" TOPSOIL		0						Start Boring at 1:30 pm
	+137.0	Dark Brown and Gray c-f SAND, some silt, some f-gravel, few roots [FILL] (moist)		1	S-1	SS	8	17	41	
	+135.5	Inferred Weathered Rock		2				17		
	+135.0	Gray GREENSTONE [BEDROCK]	4:31	3	Run #1	NX CORE	REC=60"/60" =100%	RQD=18"/60" =30%		Start Coring from 2.5 to 7.5'
			3:34	4						
			3:15	5						
			2:25	6						
			3:48	7						
			3:54	8						
		Gray GREENSTONE [BEDROCK]	3:50	9	Run #2	NX CORE	REC=60"/60" =100%	RQD=39"/60" =65%		Start Coring from 7.5 to 12.5'
			3:12	10						
			2:18	11						
			2:46	12						
			4:04	13						
			3:57	14						
		Gray GREENSTONE [BEDROCK]	2:50	15	Run #3	NX CORE	REC=60"/60" =100%	RQD=51"/60" =85%		Start Coring from 12.5 to 17.5'
			3:57	16						
			2:10	17						
	+120.0	End of Boring at 17'-6"		18						End of Boring at 3:34 pm Borehole backfilled with auger cuttings upon completion and patched with portland cement.
				19						
				20						

Project Engineering & Science University Magnet School				Project No. 140068601				
Location Rockview Site, West Haven, Connecticut				Elevation and Datum Approx. el. 114.5 NGVD 1929				
Drilling Company Soiltesting, Inc.				Date Started 3/14/13		Date Finished 3/14/13		
Drilling Equipment Diedrich D50 Turbo Truck Mounted Drill Rig				Completion Depth 20.1 ft		Rock Depth 20 ft		
Size and Type of Bit 3.75" ID Hollow Stem Auger				Number of Samples		Disturbed 8	Undisturbed 0	Core 0
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 2		Completion --	24 HR. --	
Casing Hammer N/A		Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Tom Page				
Sampler 2" OD Split Spoon				Inspecting Engineer Neritan Axhushi				
Sampler Hammer Safety		Weight (lbs) 140	Drop (in) 30					

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Log of Boring

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Project		Project No.							
Engineering & Science University Magnet School		140068601							
Location		Elevation and Datum							
Rockview Site, West Haven, Connecticut		Approx. el. 114.5 NGVD 1929							
MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist. BL/6in		N-Value (Blows/ft)
	+94.4	Gray m-f SAND, few weathered rock fragments [BEDROCK] End of Boring at 20'-1"	20	S-8	SS	1	50/1"	10 20 30 40 50/1"	Auger refusal at 20' Borehole backfilled with auger cuttings upon completion and patched with portland cement.
			21						
			22						
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Project Engineering & Science University Magnet School				Project No. 140068601			
Location Rockview Site, West Haven, Connecticut				Elevation and Datum Approx. el. 138 NGVD 1929			
Drilling Company Soiltesting, Inc.				Date Started 3/14/13		Date Finished 3/14/13	
Drilling Equipment ATV Drill Rig				Completion Depth 1 ft		Rock Depth N/D	
Size and Type of Bit 2 1/4" ID Hollow Stem Auger				Number of Samples		Disturbed	
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Core 0	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Water Level (ft.)	
Sampler 2" OD Split Spoon		Weight (lbs) 140		Drop (in) 30		First N/A	
Sampler Hammer Safety				Drilling Foreman Tom Page			
				Inspecting Engineer Neritan Axhushi			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist	BL/ft		N-Value (Blows/ft)
	+138.0	6" TOPSOIL	0	S-1	GRAB					Old Carpet sitting on top of the topsoil Auger to 2' Auger refusal at 1' Borehole backfilled with auger cuttings upon completion.
	+137.5	Dark Brown to Gray c-f SAND, few silt, few f-gravel, some roots, trace glass, trace metal [FILL] (moist) End of Boring at 1'-1"	1	S-2	SS	0	50/0"	50/0"		
	+137.0		2							
			3							
			4							
			5							
			6							
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Project Engineering & Science University Magnet School				Project No. 140068601			
Location Rockview Site, West Haven, Connecticut				Elevation and Datum Approx. el. 137.5 NGVD 1929			
Drilling Company Soiltesting, Inc.				Date Started 3/14/13		Date Finished 3/14/13	
Drilling Equipment ATV Drill Rig				Completion Depth 2.1 ft		Rock Depth N/D	
Size and Type of Bit 2 1/4" ID Hollow Stem Auger				Number of Samples		Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.)		First N/A	Completion --
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Core 0	
Sampler 2" OD Split Spoon				Drilling Foreman Tom Page			
Sampler Hammer Safety				Inspecting Engineer Neritan Axhushi			
Weight (lbs) 140		Drop (in) 30					

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist BL/ft	N-Value (Blows/ft)	
	+137.5		0						
	+137.0	6" TOPSOIL Dark Brown to Gray c-f SAND, few silt, few f-gravel, some roots, trace glass, trace metal [FILL] (moist)	1	S-1	GRAB				Alot of debris observed around the boring location Auger to 2' Auger refusal at 2'
	+135.5		2	S-2	SS	50/1"		50/1"	Borehole backfilled with auger cuttings upon completion.
	+135.4	No Recovery End of Boring at 2'-1"							
			3						
			4						
			5						
			6						
			7						
			8						
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Appendix B
Rock Probe Logs

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Project Engineering & Science University Magnet School				Project No. 140068601			
Location Rockview Site, West Haven, Connecticut				Elevation and Datum Approx. el. 114.5 NGVD 1929			
Drilling Company Soiltesting, Inc.				Date Started 3/14/13		Date Finished 3/14/13	
Drilling Equipment Diedrich D50 Turbo Truck Mounted Drill Rig				Completion Depth 23.5 ft		Rock Depth 23.5 ft	
Size and Type of Bit 3.75" ID Hollow Stem Auger				Number of Samples		Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Water Level (ft.) First N/A	Completion 24 HR. --
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Tom Page	
Sampler 2" OD Split Spoon				Inspecting Engineer Neritan Axhushi			
Sampler Hammer Safety		Weight (lbs) 140		Drop (in) 30			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist	BL/Join		N-Value (Blows/ft)
	+114.5		0							
			1							
			2							
			3							
	+110.5	? ? ? ?	4							Inferred cobbles and small Boulder encountered from 4 to 6 feet. Hard Grinding @ 5'
			5							
	+108.5	? ? ? ?	6							
			7							
			8							
			9							
			10							
			11							
			12							
			13							
			14							
			15							
	+98.5	? ? ? ? Weathered Rock Inferred	16							Weathered Rock Inferred based on slow but hard drilling.
			17							
			18							
			19							
			20							

Project Engineering & Science University Magnet School	Project No. 140068601
Location Rockview Site, West Haven, Connecticut	Elevation and Datum Approx. el. 114.5 NGVD 1929

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist. BL/6in	
			20					
			21					
			22					
			23					
	+91.0 +90.8	End of Rock Probe at 23'-6.5"	24	S-1	SS	.5	50/0.5"	Auger Refusal at 23.5' End of Rock Probe on 3/14/2013
			25					
			26					
			27					
			28					
			29					
			30					
			31					
			32					
			33					
			34					
			35					
			36					
			37					
			38					
			39					
			40					
			41					
			42					
			43					
			44					
			45					

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Project Engineering & Science University Magnet School				Project No. 140068601			
Location Rockview Site, West Haven, Connecticut				Elevation and Datum Approx. el. 114 NGVD 1929			
Drilling Company Soiltesting, Inc.				Date Started 3/14/13		Date Finished 3/14/13	
Drilling Equipment Diedrich D50 Turbo Truck Mounted Drill Rig				Completion Depth 20.1 ft		Rock Depth 20 ft	
Size and Type of Bit 3.75" ID Hollow Stem Auger				Number of Samples		Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Water Level (ft.) First N/A	Completion 24 HR. --
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Tom Page	
Sampler 2" OD Split Spoon				Inspecting Engineer Neritan Axhushi			
Sampler Hammer Safety		Weight (lbs) 140		Drop (in) 30			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist	BL/ft	N-Value (Blows/ft)	
	+114.0		0							Rock Probe Started on 3/14/2013
			1							
			2							
			3							
			4							
			5							
	+108.0	? ? ? ?	6							Inferred cobbles and small boulder encountered from 6 to 8 feet. Moderate Rig Chatter and Drilling
			7							
	+106.0	? ? ? ?	8							Heavy Rig Chatter from 10 to 15'
			9							
			10							
			11							
			12							
			13							Material became much harder.
			14							
			15							Hard Drilling but smooth rig chatter
			16							
	+97.0	? ? ? ?	17							Weathered Rock Inferred based on slow but hard drilling.
			18							
			19							
	+94.0		20							

Project Engineering & Science University Magnet School	Project No. 140068601
Location Rockview Site, West Haven, Connecticut	Elevation and Datum Approx. el. 114 NGVD 1929

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist. BL/6in		N-Value (Blows/ft)
	+93.8	BEDROCK End of Rock Probe at 20'-2"	20	S-1	SS	1	50/2"	10 20 30 40 50/2"	Auger Refusal at 20.0' End of Rock Probe on 3/14/2013
			21						
			22						
			23						
			24						
			25						
			26						
			27						
			28						
			29						
			30						
			31						
			32						
			33						
			34						
			35						
			36						
			37						
			38						
			39						
			40						
			41						
			42						
			43						
			44						
			45						

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Project Engineering & Science University Magnet School				Project No. 140068601			
Location Rockview Site, West Haven, Connecticut				Elevation and Datum Approx. el. 116 NGVD 1929			
Drilling Company Soiltesting, Inc.				Date Started 3/14/13		Date Finished 3/14/13	
Drilling Equipment Diedrich D50 Turbo Truck Mounted Drill Rig				Completion Depth 17.1 ft		Rock Depth 17 ft	
Size and Type of Bit 3.75" ID Hollow Stem Auger				Number of Samples		Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Water Level (ft.) First N/A	Completion 24 HR. --
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Tom Page	
Sampler 2" OD Split Spoon				Inspecting Engineer Neritan Axhushi			
Sampler Hammer Safety		Weight (lbs) 140		Drop (in) 30			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist	BL/Join	N-Value (Blows/ft)	
	+116.0		0							Rock Probe Started on 3/14/2013
			1							Loose Material from 0 to 8' Very Easy Drilling
			2							
			3							
			4							
	+110.0	? ? ? ?	5							Inferred cobbles and small boulder encountered from 6 to 8 feet. Moderate Rig Chatter and Drilling
			6							
			7							
			8							
	+108.0	? ? ? ?	9							Weathered Rock Inferred based on slow but hard drilling.
			10							
			11							
			12							
	+103.0	? ? ? ?	13							Heavy Augering from 15 to 17 feet
		Weathered Rock Inferred	14							
			15							
			16							
	+99.0 +98.9	BEDROCK End of Rock Probe at 17'-1"	17	S-1	SS	1	50/1"		50/1"	Auger Refusal at 17.0' End of Rock Probe on 3/14/2013
			18							
			19							
			20							

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Project Engineering & Science University Magnet School				Project No. 140068601			
Location Rockview Site, West Haven, Connecticut				Elevation and Datum Approx. el. 117 NGVD 1929			
Drilling Company Soiltesting, Inc.				Date Started 3/14/13		Date Finished 3/14/13	
Drilling Equipment Diedrich D50 Turbo Truck Mounted Drill Rig				Completion Depth 11 ft		Rock Depth 11 ft	
Size and Type of Bit 3.75" ID Hollow Stem Auger				Number of Samples		Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Water Level (ft.) First ▽ N/A	Completion ▽ --
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Tom Page	
Sampler 2" OD Split Spoon				Inspecting Engineer Neritan Axhushi			
Sampler Hammer Safety		Weight (lbs) 140		Drop (in) 30			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data						Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist	BL/ft	N-Value (Blows/ft)	
	+117.0		0							Rock Probe Started on 3/14/2013
			1							
			2							
			3							Smooth Drilling from 0 to 4'
			4							
			5							Harder drilling from 4 to 5' Smooth drilling from 5 to 8'
			6							
			7							
			8							Heavy augering from 8 to 10'
			9							
	+107.0	?	10							Heavier Augering from 10 to 11' and heavy Rig Chatter
	+106.0	BEDROCK	11	S-1	SS	0.5	50/0.5"		50/0.5"	Auger Refusal at 11.0' End of Rock Probe on 3/14/2013
	+106.0	End of Rock Probe at 11'-0.5"	11							
			12							
			13							
			14							
			15							
			16							
			17							
			18							
			19							
			20							

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Project Engineering & Science University Magnet School				Project No. 140068601				
Location Rockview Site, West Haven, Connecticut				Elevation and Datum Approx. el. 127.5 NGVD 1929				
Drilling Company Soiltesting, Inc.				Date Started 3/14/13		Date Finished 3/14/13		
Drilling Equipment Diedrich D50 Turbo Truck Mounted Drill Rig				Completion Depth 1 ft		Rock Depth 1 ft		
Size and Type of Bit 3.75" ID Hollow Stem Auger				Number of Samples		Disturbed 1	Undisturbed 0	Core 0
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First N/A		Completion --	24 HR. --	
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Tom Page		
Sampler 2" OD Split Spoon				Inspecting Engineer Neritan Axhushi				
Sampler Hammer Safety		Weight (lbs) 140		Drop (in) 30				

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist BL/ft	N-Value (Blows/ft)	
	+127.5		0						
	+126.5		1	S-1	SS	0	50/0.5"	50/0.5"	Rock Probe Started on 3/14/2013 Auger Refusal at 1.0' Rock was visually observed at bottom of hole End of Rock Probe on 3/14/2013
	+126.5	BEDROCK End of Rock Probe at 1'-0.5"	1						
			2						
			3						
			4						
			5						
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						

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Project Engineering & Science University Magnet School				Project No. 140068601				
Location Rockview Site, West Haven, Connecticut				Elevation and Datum Approx. el. 138 NGVD 1929				
Drilling Company Soiltesting, Inc.				Date Started 3/14/13		Date Finished 3/14/13		
Drilling Equipment ATV Drill Rig				Completion Depth 4 ft		Rock Depth 4 ft		
Size and Type of Bit 2 1/4" ID Hollow Stem Auger				Number of Samples		Disturbed 1	Undisturbed 0	Core 0
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.)		First ▽ N/A	Completion ▽ --	24 HR. ▽ --
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Tom Page		
Sampler 2" OD Split Spoon				Inspecting Engineer Neritan Axhushi				
Sampler Hammer Safety		Weight (lbs) 140		Drop (in) 30				

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist BL/ft	N-Value (Blows/ft) 10 20 30 40		
	+138.0		0							
	+134.0		1							
	+134.0		2							
	+134.0		3							
	+134.0		4	S-1	SS	0	50/0"			50/0"
		BEDROCK End of Rock Probe at 4'	5							Auger Refusal at 4.0' Split Spoon Bouncing End of Rock Probe on 3/14/2013
			6							
			7							
			8							
			9							
			10							
			11							
			12							
			13							
			14							
			15							
			16							
			17							
			18							
			19							
			20							

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Project Engineering & Science University Magnet School				Project No. 140068601			
Location Rockview Site, West Haven, Connecticut				Elevation and Datum Approx. el. 127 NGVD 1929			
Drilling Company Soiltesting, Inc.				Date Started 3/18/13		Date Finished 3/18/13	
Drilling Equipment Diedrich D50 Turbo Truck Mounted Drill Rig				Completion Depth 3 ft		Rock Depth 3 ft	
Size and Type of Bit 3.75" ID Hollow Stem Auger				Number of Samples		Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.)		First ▽ N/A	Completion ▽ --
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Tom Page	
Sampler 2" OD Split Spoon				Inspecting Engineer Justin Hall			
Sampler Hammer Safety		Weight (lbs) 140		Drop (in) 30			

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MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist	BL/ft		N-Value (Blows/ft)
	+127.0		0							
	+124.0		1							
	+123.8	BEDROCK	3	S-1	SS	1	50/2"	50/2"		Auger Refusal at 3.0' Split Spoon Bouncing End of Rock Probe on 3/18/2013
		End of Rock Probe at 3'-2"	3							
			4							
			5							
			6							
			7							
			8							
			9							
			10							
			11							
			12							
			13							
			14							
			15							
			16							
			17							
			18							
			19							
			20							

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Project Engineering & Science University Magnet School				Project No. 140068601			
Location Rockview Site, West Haven, Connecticut				Elevation and Datum Approx. el. 128 NGVD 1929			
Drilling Company Soiltesting, Inc.				Date Started 3/18/13		Date Finished 3/18/13	
Drilling Equipment Diedrich D50 Turbo Truck Mounted Drill Rig				Completion Depth 5.5 ft		Rock Depth 5 ft	
Size and Type of Bit 3.75" ID Hollow Stem Auger				Number of Samples		Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A				Casing Depth (ft) N/A		Water Level (ft.) First N/A	Completion 24 HR. --
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Tom Page	
Sampler 2" OD Split Spoon				Inspecting Engineer Justin Hall			
Sampler Hammer Safety		Weight (lbs) 140		Drop (in) 30			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist	BL/ft		N-Value (Blows/ft)
	+128.0		0							
	+122.5		1							
	+122.4	BEDROCK	5							
		End of Rock Probe at 5'-6"	6	S-1	SS	0	50/0"		50/0"	Auger Refusal at 5.5' Split Spoon Bouncing End of Rock Probe on 3/18/2013
			7							
			8							
			9							
			10							
			11							
			12							
			13							
			14							
			15							
			16							
			17							
			18							
			19							
			20							

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Appendix C
Well Construction Logs

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Project	Engineering & Science University Magnet School	Project No.	140068601	
Location	Rockview Site, West Haven, Connecticut	Elevation And Datum	Approx. el. 133NGVD 1929	
Drilling Agency	Soiltesting, Inc.	Date Started	3/15/13	Date Finished
Drilling Equipment	Diedrich D50 Turbo Truck Mounted Drill Rig	Driller	Tom Page	
Size And Type of Bit	3.75" ID Hollow Stem Auger	Inspector	Kyle Zalaski	

Method of Installation
 Bedrock Monitoring Well
 Augered to bedrock.
 Air hammer used to advance borehole approximately 2-ft into bedrock.
 Set casing into bedrock and grout casing into place. Allow to set for 24-hours.
 Air hammer used to advance borehole through grouted casing to approximately 9.5-ft into bedrock.

Method of Well Development
 Pump and surge

Type of Casing	Diameter	Type of Backfill Material
PVC	2-in	Native
Type of Screen	Diameter	Type of Seal Material
Slotted PVC	2-in	Bentonite
Borehole Diameter		Type of Filter Material
6-in		No. 1 Sand

Type of Casing	Elevation	Depth	Well Details	Soil / Rock Classification	Depth (ft)	
Top of Casing						
Top of Seal	Elevation 132.75'	Depth 0.25' bgs		Asphalt Fill		
Top of Filter	Elevation 131.50'	Depth 1.5' bgs		Weathered Rock	1	
Top of Screen	Elevation 130.50'	Depth 2.5' bgs			2	
Bottom of Filter	Elevation 120.50'	Depth 12.5' bgs			3	
Bottom of Well	Elevation 120.50'	Depth 12.5' bgs			4	
Screen Length	10.0'	Slot Size 0.010-in			5	
GROUNDWATER ELEVATIONS (ft) (Measured from the Top of Casing)						6
Elevation	DTW 3.2'	Date 3/19/2013		Sand Filter	Bedrock	7
Elevation	DTW	Date		Screen		8
Elevation	DTW	Date				9
Elevation	DTW	Date			10	
Elevation	DTW	Date			11	
Elevation	DTW	Date			12	

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WELL CONSTRUCTION SUMMARY

Well No. ELB-6(OW)

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Project	Engineering & Science University Magnet School	Project No.	140068601	
Location	Rockview Site, West Haven, Connecticut	Elevation And Datum	Approx. el. 133.5NGVD 1929	
Drilling Agency	Soiltesting, Inc.	Date Started	3/15/13	Date Finished 3/18/13
Drilling Equipment	Diedrich D50 Turbo Truck Mounted Drill Rig	Driller	Tom Page	
Size And Type of Bit	3.75" ID Hollow Stem Auger	Inspector	Kyle Zalaski	

Method of Installation
 Bedrock Monitoring Well
 Augered to bedrock.
 Air hammer used to advance borehole approximately 2-ft into bedrock.
 Set casing into bedrock and grout casing into place. Allow to set for 24-hours.
 Air hammer used to advance borehole through grouted casing to approximately 7-ft into bedrock.

Method of Well Development
 Pump and surge

Type of Casing	Diameter	Type of Backfill Material
PVC	2-in	Native
Type of Screen	Diameter	Type of Seal Material
Slotted PVC	2-in	Bentonite
Borehole Diameter		Type of Filter Material
6-in		No. 1 Sand

Type of Casing	Elevation	Depth	Well Details	Soil / Rock Classification	Depth (ft)
Top of Casing					
Top of Seal	Elevation 133.25'	Depth 0.25' bgs		Asphalt Fill	1
Top of Filter	Elevation 131.50'	Depth 2' bgs			2
Top of Screen	Elevation 130.25'	Depth 3.25' bgs		3	
Bottom of Filter	Elevation 120.25'	Depth 13.25' bgs		4	
Bottom of Well	Elevation 120.25'	Depth 13.25' bgs		5	
Screen Length	10.0'	Slot Size 0.010-in		6	
GROUNDWATER ELEVATIONS (ft) (Measured from the Top of Casing)				7	
Elevation	DTW 4'	Date 3/19/2013		8	
Elevation	DTW	Date		9	
Elevation	DTW	Date		10	
Elevation	DTW	Date		11	
Elevation	DTW	Date		12	
Elevation	DTW	Date		13	

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Project	Engineering & Science University Magnet School	Project No.	140068601
Location	Rockview Site, West Haven, Connecticut	Elevation And Datum	Approx. el. 113.5NGVD 1929
Drilling Agency	Soiltesting, Inc.	Date Started	3/15/13
		Date Finished	3/15/13
Drilling Equipment	Diedrich D50 Turbo Truck Mounted Drill Rig	Driller	Tom Page
Size And Type of Bit	3.75" ID Hollow Stem Auger	Inspector	Kyle Zalaski

Method of Installation
 Overburden Monitoring Well
 The boring was drilled out with the HSA to 14.5-ft. The 2-in PVC well was constructed with 10-ft of slotted PVC. No. 1 sand was used for the filter pack and brought to 1-ft above the well screen, followed by 1.5-ft of bentonite pellets.

Method of Well Development
 Pump and surge

Type of Casing	Diameter	Type of Backfill Material
PVC	2-in	Native
Type of Screen	Diameter	Type of Seal Material
Slotted PVC	2-in	Bentonite
Borehole Diameter		Type of Filter Material
6-in		No. 1 Sand

Type of Casing	Elevation	Depth	Well Details	Soil / Rock Classification	Depth (ft)
Top of Casing					
Top of Seal	Elevation 111.50'	Depth 2' bgs		Asphalt	1 2 3 4 5 6 7 8 9 10 11 12 13 14
Top of Filter	Elevation 110.00'	Depth 3.5' bgs		Gravel Fill	
Top of Screen	Elevation 109.00'	Depth 4.5' bgs		Bentonite Seal	
Bottom of Filter	Elevation 99.00'	Depth 14.5' bgs		Glacial Till	
Bottom of Well	Elevation 99.00'	Depth 14.5' bgs			
Screen Length	10.0'	Slot Size 0.010-in			
GROUNDWATER ELEVATIONS (ft) (Measured from the Top of Casing)					
Elevation	DTW 4.25'	Date 3/19/2013			
Elevation	DTW	Date		Sand Filter	
Elevation	DTW	Date		Screen	
Elevation	DTW	Date			
Elevation	DTW	Date			
Elevation	DTW	Date			
Elevation	DTW	Date			
Elevation	DTW	Date			

Appendix D

Rock Testing Lab Results



Client:	Langan Engineering
Project Name:	ESUMS
Project Location:	West Haven, CT
GTX #:	300376
Test Date:	3/29/2013
Tested By:	daa
Checked By:	mpd

Bulk Density and Compressive Strength of Rock Core Specimens by ASTM D 7012 Method C

Boring ID	Sample ID	Depth, ft	Bulk Density, lb/ft ³	Compressive Strength, psi	Failure Type	In conformance with ASTM D 4543
LB-9	Sample #1	3.28-3.57	184	32,761	1	NO *, **
LB-9	Sample #2	7.93-8.30	185	9,995	2	YES
LB-9	Sample #3	14.28-14.66	187	28,969	1	YES

Notes: Density determined on core samples by measuring dimensions and weight and then calculating.
 All specimens tested at the approximate as-received moisture content and at standard laboratory temperature.
 Failure Type: 1 = Intact Material Failure; 2 = Discontinuity Failure (See attached photographs)
 * The as-received core did not meet the ASTM side straightness tolerance due to irregularities in the sample as cored.
 ** Specimen L/D < 2.
 Because the indicated tested specimens did not meet the standard tolerances for straightness and diameter, the results reported here may differ from those for a test specimen within tolerances.



Client:	Langan Engineering	Test Date:	3/29/2013
Project Name:	ESUMS	Tested By:	daa
Project Location:	West Haven, CT	Checked By:	mpd
GTX #:	300376		
Boring ID:	LB-9		
Sample ID:	Sample #1		
Depth:	3.28-3.57 ft		
Visual Description:	See photographs		

UNIT WEIGHT DETERMINATION AND DIMENSIONAL AND SHAPE TOLERANCES OF ROCK CORE SPECIMENS BY ASTM D 4543

BULK DENSITY				DEVIATION FROM STRAIGHTNESS (Procedure S1)			
Specimen Length, in:	1 3.40	2 3.41	Average 3.41	Maximum gap between side of core and reference surface plate: Is the maximum gap \leq 0.02 in.? NO			
Specimen Diameter, in:	2.05	2.06	2.06	Maximum difference must be $<$ 0.020 in. Straightness Tolerance Met? NO			
Specimen Mass, g:	546.13			Minimum Diameter Tolerance Met? YES			
Bulk Density, lb/ft ³ :	184			Length to Diameter Ratio Tolerance Met? NO			
Length to Diameter Ratio:	1.7						

END FLATNESS AND PARALLELISM (Procedure FP1)															
END 1	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00020	0.00020	0.00020	0.00020	0.00020	0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010	-0.00020	-0.00030	-0.00030
Diameter 2, in (rotated 90°)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010	-0.00010	-0.00010	-0.00010
												Difference between max and min readings, in: 0° = 0.00050 90° = 0.00010			
END 2	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00010	0.00010	0.00010	0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010	-0.00020	-0.00020	-0.00020	-0.00030	-0.00030
Diameter 2, in (rotated 90°)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010	-0.00010	-0.00010	-0.00010	-0.00020
												Difference between max and min readings, in: 0° = 0.0004 90° = 0.0002 Maximum difference must be $<$ 0.0020 in. Difference = \pm 0.00025 Flatness Tolerance Met? YES			

	<p>DIAMETER 1</p> <p>End 1: Slope of Best Fit Line: -0.00030 Angle of Best Fit Line: -0.01719</p> <p>End 2: Slope of Best Fit Line: -0.00025 Angle of Best Fit Line: -0.01432</p> <p>Maximum Angular Difference: 0.00286</p> <p align="right">Parallelism Tolerance Met? YES Spherically Seated</p> <hr/> <p>DIAMETER 2</p> <p>End 1: Slope of Best Fit Line: -0.00006 Angle of Best Fit Line: -0.00344</p> <p>End 2: Slope of Best Fit Line: -0.00009 Angle of Best Fit Line: -0.00516</p> <p>Maximum Angular Difference: 0.00172</p> <p align="right">Parallelism Tolerance Met? YES Spherically Seated</p>
--	---

PERPENDICULARITY (Procedure P1)						(Calculated from End Flatness and Parallelism measurements above)		Maximum angle of departure must be \leq 0.25°	
END 1	Diameter (in.)	Slope	Angle°	Perpendicularity Tolerance Met?					
Diameter 1, in	2.055	0.00024	0.014	YES					
Diameter 2, in (rotated 90°)	2.055	0.00005	0.003	YES					Perpendicularity Tolerance Met? YES
END 2	Diameter (in.)	Slope	Angle°	Perpendicularity Tolerance Met?					
Diameter 1, in	2.055	0.00019	0.011	YES					
Diameter 2, in (rotated 90°)	2.055	0.00010	0.006	YES					

Client:	Langan Engineering
Project Name:	ESUMS
Project Location:	West Haven, CT
GTX #:	300376
Test Date:	3/29/2013
Tested By:	daa
Checked By:	mpd
Boring ID:	LB-9
Sample ID:	Sample #1
Depth, ft:	3.28-3.57



After cutting and grinding



After break



Client:	Langan Engineering	Test Date:	3/29/2013
Project Name:	ESUMS	Tested By:	daa
Project Location:	West Haven, CT	Checked By:	mpd
GTX #:	300376		
Boring ID:	LB-9		
Sample ID:	Sample #2		
Depth:	7.93-8.30 ft		
Visual Description:	See photographs		

UNIT WEIGHT DETERMINATION AND DIMENSIONAL AND SHAPE TOLERANCES OF ROCK CORE SPECIMENS BY ASTM D 4543

BULK DENSITY				DEVIATION FROM STRAIGHTNESS (Procedure S1)			
Specimen Length, in:	1 4.34	2 4.34	Average 4.34	Maximum gap between side of core and reference surface plate: Is the maximum gap \leq 0.02 in.? YES			
Specimen Diameter, in:	2.05	2.06	2.06	Maximum difference must be $<$ 0.020 in. Straightness Tolerance Met? YES			
Specimen Mass, g:	700.45						
Bulk Density, lb/ft ³ :	185						
Length to Diameter Ratio:	2.1	Minimum Diameter Tolerance Met? YES					
		Length to Diameter Ratio Tolerance Met? YES					

END FLATNESS AND PARALLELISM (Procedure FP1)															
END 1	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010	-0.00010
Diameter 2, in (rotated 90°)	-0.00010	-0.00010	-0.00010	-0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Difference between max and min readings, in: 0° = 0.00010 90° = 0.00010														
END 2	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	-0.00010
Diameter 2, in (rotated 90°)	-0.00010	-0.00010	-0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Difference between max and min readings, in: 0° = 0.0001 90° = 0.0001 Maximum difference must be $<$ 0.0020 in. Difference = \pm 0.00005 Flatness Tolerance Met? YES														

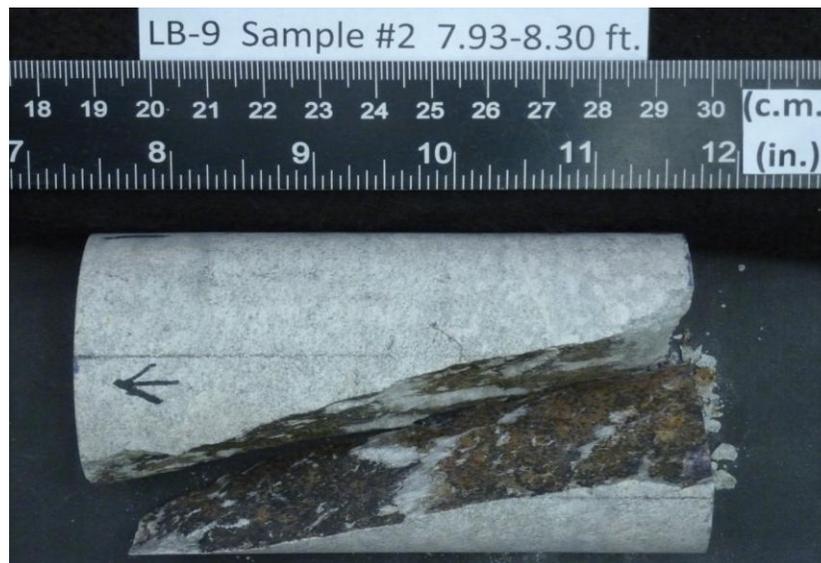
		<p>DIAMETER 1</p> <p>End 1: Slope of Best Fit Line: -0.00004 Angle of Best Fit Line: -0.00229</p> <p>End 2: Slope of Best Fit Line: -0.00002 Angle of Best Fit Line: -0.00115</p> <p>Maximum Angular Difference: 0.00115</p> <p>Parallelism Tolerance Met? YES Spherically Seated</p>
		<p>DIAMETER 2</p> <p>End 1: Slope of Best Fit Line: 0.00006 Angle of Best Fit Line: 0.00344</p> <p>End 2: Slope of Best Fit Line: 0.00005 Angle of Best Fit Line: 0.00286</p> <p>Maximum Angular Difference: 0.00057</p> <p>Parallelism Tolerance Met? YES Spherically Seated</p>

PERPENDICULARITY (Procedure P1)						(Calculated from End Flatness and Parallelism measurements above)		Maximum angle of departure must be \leq 0.25°	
END 1	Diameter (in.)	Slope	Angle°	Perpendicularity Tolerance Met?					
Diameter 1, in	2.055	0.00005	0.003	YES					
Diameter 2, in (rotated 90°)	2.055	0.00005	0.003	YES					Perpendicularity Tolerance Met? YES
END 2	Diameter (in.)	Slope	Angle°	Perpendicularity Tolerance Met?					
Diameter 1, in	2.055	0.00005	0.003	YES					
Diameter 2, in (rotated 90°)	2.055	0.00005	0.003	YES					

Client:	Langan Engineering
Project Name:	ESUMS
Project Location:	West Haven, CT
GTX #:	300376
Test Date:	3/29/2013
Tested By:	daa
Checked By:	mpd
Boring ID:	LB-9
Sample ID:	Sample #2
Depth, ft:	7.93-8.30



After cutting and grinding



After break



Client:	Langan Engineering	Test Date:	3/29/2013
Project Name:	ESUMS	Tested By:	daa
Project Location:	West Haven, CT	Checked By:	mpd
GTX #:	300376		
Boring ID:	LB-9		
Sample ID:	Sample #3		
Depth:	14.28-14.66 ft		
Visual Description:	See photographs		

UNIT WEIGHT DETERMINATION AND DIMENSIONAL AND SHAPE TOLERANCES OF ROCK CORE SPECIMENS BY ASTM D 4543

BULK DENSITY				DEVIATION FROM STRAIGHTNESS (Procedure S1)			
Specimen Length, in:	1 4.35	2 4.35	Average 4.35	Maximum gap between side of core and reference surface plate: Is the maximum gap \leq 0.02 in.? YES			
Specimen Diameter, in:	2.05	2.06	2.06	Maximum difference must be $<$ 0.020 in. Straightness Tolerance Met? YES			
Specimen Mass, g:	711.31						
Bulk Density, lb/ft ³ :	187						
Length to Diameter Ratio:	2.1			Minimum Diameter Tolerance Met? YES Length to Diameter Ratio Tolerance Met? YES			

END FLATNESS AND PARALLELISM (Procedure FP1)															
END 1	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00020	0.00020	0.00020	0.00020	0.00020	0.00010	0.00010	0.00000	0.00000	-0.00010	-0.00030	-0.00030	-0.00040	-0.00050	-0.00060
Diameter 2, in (rotated 90°)	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Difference between max and min readings, in: 0° = 0.00080 90° = 0.00010														
END 2	-0.875	-0.750	-0.625	-0.500	-0.375	-0.250	-0.125	0.000	0.125	0.250	0.375	0.500	0.625	0.750	0.875
Diameter 1, in	0.00030	0.00030	0.00030	0.00030	0.00020	0.00020	0.00010	0.00000	0.00000	0.00000	-0.00010	-0.00020	-0.00030	-0.00040	-0.00050
Diameter 2, in (rotated 90°)	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	-0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
	Difference between max and min readings, in: 0° = 0.0008 90° = 0.0001 Maximum difference must be $<$ 0.0020 in. Difference = \pm 0.00040 Flatness Tolerance Met? YES														

		<p>DIAMETER 1</p> <p>End 1: Slope of Best Fit Line: -0.00048 Angle of Best Fit Line: -0.02750</p> <p>End 2: Slope of Best Fit Line: -0.00046 Angle of Best Fit Line: -0.02636</p> <p>Maximum Angular Difference: 0.00115</p> <p>Parallelism Tolerance Met? YES Spherically Seated</p>
		<p>DIAMETER 2</p> <p>End 1: Slope of Best Fit Line: 0.00008 Angle of Best Fit Line: 0.00458</p> <p>End 2: Slope of Best Fit Line: 0.00008 Angle of Best Fit Line: 0.00458</p> <p>Maximum Angular Difference: 0.00000</p> <p>Parallelism Tolerance Met? YES Spherically Seated</p>

PERPENDICULARITY (Procedure P1) (Calculated from End Flatness and Parallelism measurements above)						Maximum angle of departure must be \leq 0.25°	
END 1	Difference, Maximum and Minimum (in.)	Diameter (in.)	Slope	Angle°	Perpendicularity Tolerance Met?		
Diameter 1, in	0.00080	2.055	0.00039	0.022	YES		
Diameter 2, in (rotated 90°)	0.00010	2.055	0.00005	0.003	YES	Perpendicularity Tolerance Met? YES	
END 2							
Diameter 1, in	0.00080	2.055	0.00039	0.022	YES		
Diameter 2, in (rotated 90°)	0.00010	2.055	0.00005	0.003	YES		

Client:	Langan Engineering
Project Name:	ESUMS
Project Location:	West Haven, CT
GTX #:	300376
Test Date:	3/29/2013
Tested By:	daa
Checked By:	mpd
Boring ID:	LB-9
Sample ID:	Sample #3
Depth, ft:	14.28-14.66



After cutting and grinding



After break

Appendix E
Proposed Foundation Plan

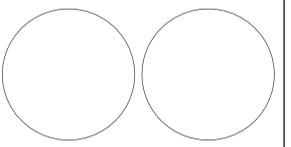
REVISION LOG:

No.	Description	Date

PROJECT NAME:
**ENGINEERING AND
SCIENCE UNIVERSITY
MAGNET SCHOOL**

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

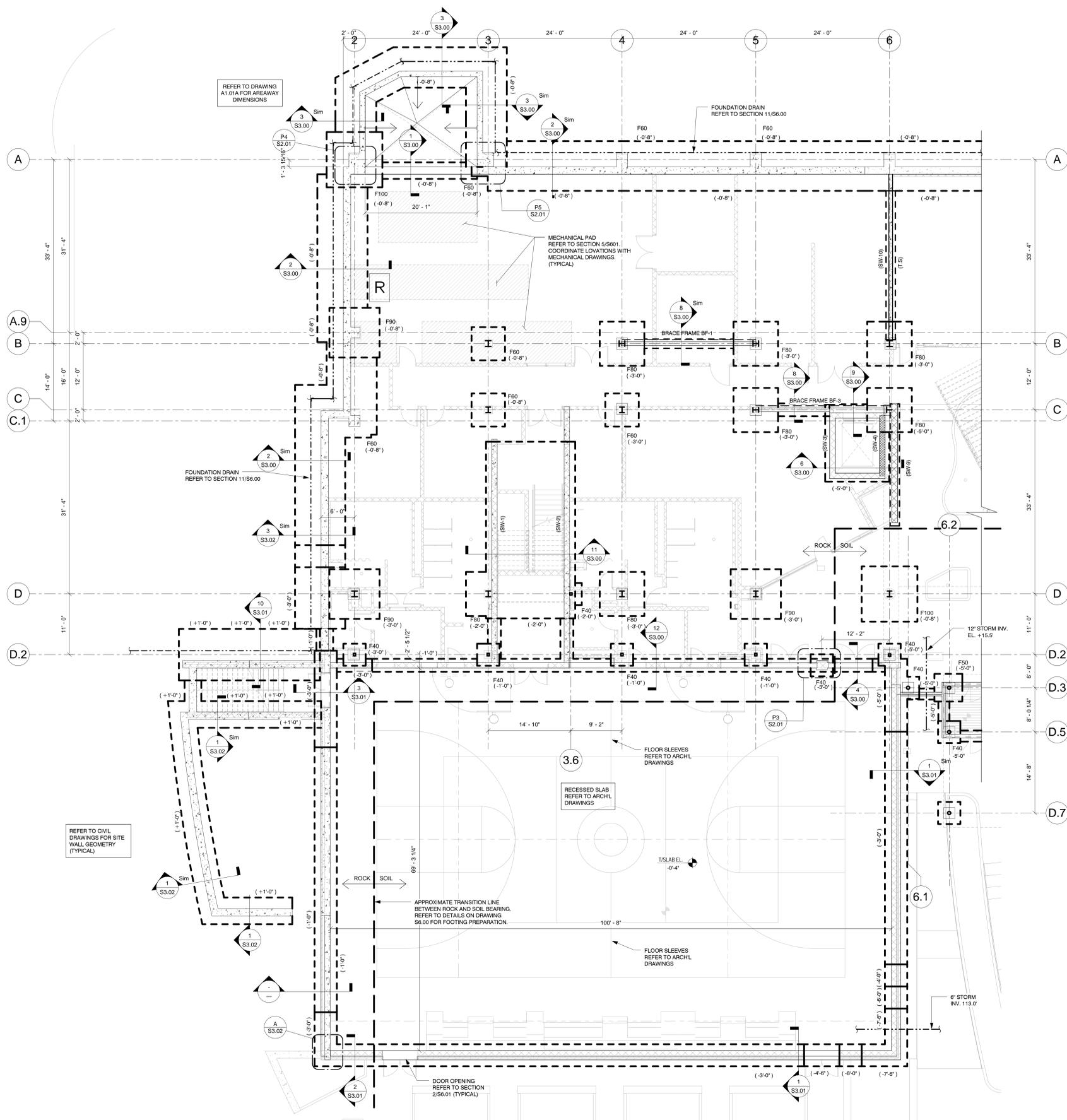
PHASE:
**CONSTRUCTION
DOCUMENTS
PHASE 2 OF 3**



DRAWING TITLE:
**FOUNDATION PLAN
AREA A**

SCALE: 1/8" = 1'-0"	DATE: JULY 11, 2013
JOB NUMBER: 0938.03	SDE NUMBER: 093-0357 MAG/N
DRAWING NUMBER:	

S1.01A



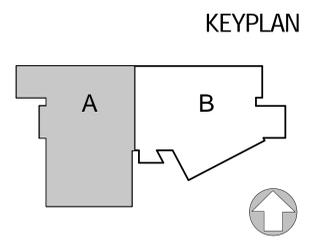
- FOUNDATION NOTES
- TOP OF CONCRETE SLAB ELEVATION = (0'-0") UNLESS OTHERWISE NOTED.
 - FLOOR CONSTRUCTION: 5" NORMAL WEIGHT CONCRETE SLAB REINF. WITH 6X6-W2-BMW2.9 W.W.F. (CHAIR). REFER TO GENERAL NOTES FOR SUBGRADE REQUIREMENTS.
 - PROVIDE SAWCUT JOINTS IN SLAB ON GRADE PER NOTE #4 ON DRAWINGS S3.01, AND TYPICAL SLAB ON GRADE DETAILS ON SHEET S601
 - TOP OF FOOTING ELEVATION (X-X') GIVEN FROM ELEVATION (0'-0")
 - PROVIDE THICKENED SLAB BELOW ALL 8" AND LARGER MASONRY PARTITIONS THAT ARE NON-BEARING. REFER TO TYPICAL DETAIL ON DRAWING S601
 - COORDINATE ALL SLAB ON GRADE DEPRESSIONS WITH ARCH'L DRAWINGS
 - COORDINATE ALL PLUMBING INVERTS AND LOCATIONS WITH PLUMBING & SITE DRAWINGS REFER TO TYPICAL DETAIL ON DRAWING S4.01 FOR SUB SURFACE PIPING THROUGH FOUNDATION WALLS
 - REFER TO DRAWINGS S-203 AND S-204 FOR BRACE FRAME ELEVATIONS.
 - "C.J." INDICATES FOUNDATION WALL CONTROL JOINT. REFER TO TYPICAL DETAIL ON DRAWING S601.
 - "R" INDICATES RADON REMOVAL PIT. COORDINATE WITH PLUMBING DRAWINGS.
 - CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY TRANSITION LINE LOCATION AND NOTIFY ENGINEER IF LOCATION VARIES FROM PLANS.

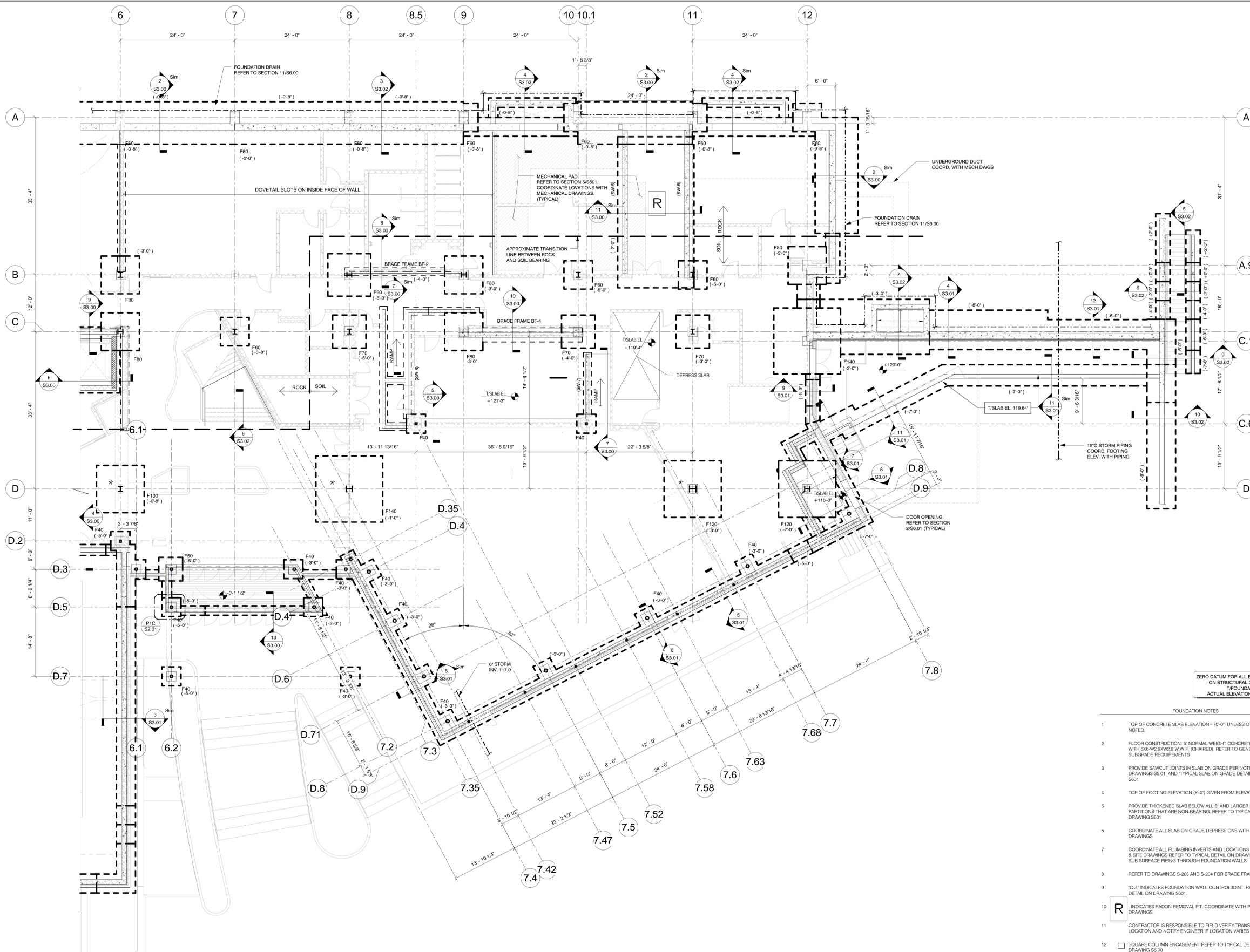
FOOTING SCHEDULE

Mark	Footing Size			Reinf Each Way		Remarks
	Length	Width	Thickness	No.	Size	
F40	4'-0"	4'-0"	1'-3"	5	#5	
F50	5'-0"	5'-0"	1'-6"	8	#5	
F60	6'-0"	6'-0"	1'-6"	8	#6	
F70	7'-0"	7'-0"	1'-9"	8	#6	
F80	8'-0"	8'-0"	2'-0"	10	#6	
F90	9'-0"	9'-0"	2'-0"	10	#7	
F100	10'-0"	10'-0"	2'-0"	10	#7	
F120	12'-0"	12'-0"	2'-3"	13	#7	
F140	14'-0"	14'-0"	2'-6"	12	#8	

1
S1.01A
FOUNDATION PLAN AREA A
1/8" = 1'-0"

ZERO DATUM FOR ALL ELEVATIONS GIVEN ON STRUCTURAL DRAWINGS IS 1' FOUNDATION ACTUAL ELEVATION 120'-0" = 0'-0"



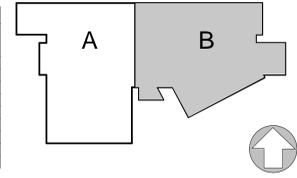


ZERO DATUM FOR ALL ELEVATIONS GIVEN ON STRUCTURAL DRAWINGS IS TYPICAL FOUNDATION ACTUAL ELEVATION 120'-0" = 0'-0"

FOUNDATION NOTES

- TOP OF CONCRETE SLAB ELEVATION = (0'-0") UNLESS OTHERWISE NOTED.
- FLOOR CONSTRUCTION: 8" NORMAL WEIGHT CONCRETE SLAB REINF. WITH #6@12" MAX. 2 W.W.F. (CHAIRED). REFER TO GENERAL NOTES FOR SUBGRADE REQUIREMENTS
- PROVIDE SAWCUT JOINTS IN SLAB ON GRADE PER NOTE #4 ON DRAWINGS S5.01, AND TYPICAL SLAB ON GRADE DETAILS ON SHEET S601
- TOP OF FOOTING ELEVATION (X-X) GIVEN FROM ELEVATION (0'-0")
- PROVIDE THICKENED SLAB BELOW ALL 8" AND LARGER MASONRY PARTITIONS THAT ARE NON-BEARING. REFER TO TYPICAL DETAIL ON DRAWING S601
- COORDINATE ALL SLAB ON GRADE DEPRESSIONS WITH ARCH'L DRAWINGS
- COORDINATE ALL PLUMBING INVERTS AND LOCATIONS WITH PLUMBING & SITE DRAWINGS REFER TO TYPICAL DETAIL ON DRAWING S4.01 FOR SUB SURFACE PIPING THROUGH FOUNDATION WALLS
- REFER TO DRAWINGS S-203 AND S-204 FOR BRACE FRAME ELEVATIONS.
- "C-J" INDICATES FOUNDATION WALL CONTROLJOINT. REFER TO TYPICAL DETAIL ON DRAWING S601
- "R" INDICATES RADON REMOVAL PIT. COORDINATE WITH PLUMBING DRAWINGS.
- CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY TRANSITION LINE LOCATION AND NOTIFY ENGINEER IF LOCATION VARIES FROM PLANS.
- SQUARE COLUMN ENCASEMENT REFER TO TYPICAL DETAIL 6 ON DRAWING S6.00
- ROUND COLUMN ENCASUREMENT

Mark	Footing Size			Reinf Each Way		Remarks
	Length	Width	Thickness	No.	Size	
F40	4'-0"	4'-0"	1'-3"	5	#5	
F50	5'-0"	5'-0"	1'-6"	8	#5	
F50	6'-0"	6'-0"	1'-6"	8	#6	
F70	7'-0"	7'-0"	1'-9"	8	#6	
F80	8'-0"	8'-0"	2'-0"	10	#6	
F80	9'-0"	9'-0"	2'-0"	10	#7	
F100	10'-0"	10'-0"	2'-0"	10	#7	
F120	12'-0"	12'-0"	2'-3"	13	#7	
F140	14'-0"	14'-0"	2'-6"	12	#8	



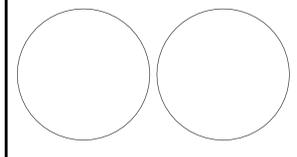
REVISION LOG:

No.	Description	Date

PROJECT NAME:
ENGINEERING AND SCIENCE UNIVERSITY MAGNET SCHOOL

500 BOSTON POST ROAD
WEST HAVEN, CONNECTICUT 06516

PHASE:
CONSTRUCTION DOCUMENTS PHASE 2 OF 3



DRAWING TITLE:
FOUNDATION PLAN AREA B

SCALE: 1/8" = 1'-0" DATE: JULY 11, 2013

JOB NUMBER: 0938.03 SDE NUMBER: 093-0357 MAG/N

DRAWING NUMBER:
S1.01B

1 FOUNDATION PLAN AREA B
S1.01B 1/8" = 1'-0"



Appendix K:
Historical Review Documents



Department of Economic and
Community Development

Connecticut
still revolutionary

February 14, 2014

Mr. Daniel Cefaratti
BVH Integrated Services
50 Griffin Road South
Bloomfield, CT 06002

Subject: Stormwater Discharge Permit for an Engineering and Sciences Magnet School
500 Boston Post Road (Route 1/Orange Avenue)
West Haven, Connecticut.

Dear Mr. Cefaratti:

The State Historic Preservation Office (SHPO) is in receipt of your request for our comments on the potential effects of the referenced project on historic properties in support of a Stormwater Discharge permit issued by the Department of Energy and Economic Protection (DEEP). SHPO understands that the proposed project plan consists of a new Engineering and Sciences Magnet School with associated walks, site walls, stairs, and parking. The development area will combine multiple lots and encompass approximately 4.5 acres south of Boston Post Road and east of Rockview Street. The property currently contains several residential and commercial structures, as well as a large parking lot.

As described in the Environmental Site Assessment (ESA), the project area appears to have remained undeveloped until the early twentieth century. A single residential structure within the project area was constructed during the 1920s and another was built during the 1950s. It is our opinion that these properties do not appear to be eligible for listing on the National Register of Historic Places. All of the remaining residential and commercial development occurred after 1965. A review of historic aerial photographs described in the ESA suggests a dynamic, urban landscape. As a result, much of area has been subject to previous ground disturbance associated with construction, grading, and underground utility construction. Based on the information provided to our office, it is SHPO's opinion that no historic properties will be affected by this undertaking.

The State Historic Preservation Office appreciates the opportunity to review and comment upon this project. These comments are provided in accordance with Section 106 of the National Historic Preservation Act, as amended, and the Connecticut Environmental Policy Act. For additional information, please contact Catherine Labadia, Environmental Reviewer, at (860) 256-2764 or catherine.labadia@ct.gov.

Sincerely,

Daniel T. Forrest
State Historic Preservation Officer

State Historic Preservation Office

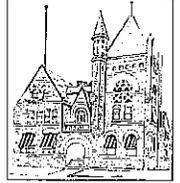
One Constitution Plaza | Hartford, CT 06103 | P: 860.256.2800 | Cultureandtourism.org

An Affirmative Action/Equal Opportunity Employer An Equal Opportunity Lender



CITY OF WEST HAVEN, CONNECTICUT

Planning and Zoning Department



City Hall | 355 Main Street | First Floor | West Haven, Connecticut 06516-0312
Phone 203.937.3580 Fax 203.937.3742

February 25, 2014

Robert Lynn

New Haven School Construction Program
54 Meadow Street
New Haven, CT 06519

Subject: Engineering & Science University Magnet School
Verification of Historic District Status

Dear Mr. Lynn,

I am writing this letter in reference to the future site of the Engineering & Science University Magnet School, which is comprised of 26 properties that are bounded by Route 1 on the north, Rockview Street on the west, the University of New Haven campus on the east, and residential properties between Waban Street and Tile Street on the south. I certify that these properties are not located within one of the City of West Haven's locally established historic districts, nor are any of the properties listed as a locally identified individual historic property.

In addition, it does not appear that the property is subject to any known conservation or preservation restrictions.

If you require any additional information or if I may be of further assistance on this matter please feel free to contact me.

Sincerely,

Roberto S. Librandi
Assistant Planner



PROJECT
SITE

This site is the only site listed in West Haven on the CT Register of Historic Places



American Mills Web Shop (added 1983 - - #83001276)

Also known as **East Coast Loose Leaf Company, Inc.**

114-152 Orange Ave. , West Haven

Historic Significance: Event, Architecture/Engineering

Architectural Style: Italianate

Area of Significance: Architecture, Industry

Period of Significance: 1900-1924

Owner: **Private**

Historic Function: Commerce/Trade, Industry/Processing/Extraction

Historic Sub-function: Business, Manufacturing Facility, Warehouse

Current Function: Industry/Processing/Extraction

Current Sub-function: Manufacturing Facility