

PUBLIC WORKS DEPARTMENT  
OF THE  
CITY OF DANBURY, CONNECTICUT

CONTRACT AND SPECIFICATIONS

CITY PROJECT NO. 17-15

BID NO. 06-18-19-01

DANBURY, CONNECTICUT

**Environmental Remediation Work  
Former Mallory Hat Factory Site**

HONORABLE MARK D. BOUGHTON, MAYOR

ANTONIO IADAROLA, P.E., DIRECTOR OF PUBLIC WORKS/ CITY  
ENGINEER

THOMAS H. HUGHES, III, SUPERINTENDENT OF CONSTRUCTION  
SERVICES

RUSSELL J. DIRIENZO, P.G., L.E.P., ARCADIS, US, INC.,  
ENVIRONMENTAL CONSULTANT

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## **INVITATION TO BID**

Sealed Bids for Bid No. 06-18-19-01, "Environmental Remediation Work – Former Mallory Hat Factory Site", 89 Rose Hill Avenue, Danbury, CT, Project No. 17-15 will be received at Danbury City Hall, Purchasing Agent's office, 155 Deer Hill Ave., Danbury, CT 06810 until 2:00 PM on August 28, 2019. Prior to the public opening of the bids, any bid submitted may be withdrawn by the bidder if said bidder discovers mathematical or clerical errors in his bid. Any such bid withdrawal may be made without penalty or prejudice. After the bids are opened, all offers will be considered firm for a period of 90 days (with an additional 30 days upon bidder's consent) and no bid may be withdrawn for any reason during that period except for such cause as the City of Danbury in its sole discretion deems sufficient.

Work consists of all labor, tools, materials and equipment necessary to conduct environmental remediation work at the Former Mallory Hat Factory Site. Work includes excavation of approximately 3,500 to 4,000 tons of petroleum and mercury-impacted soils within various locations on the site, on-site soil stockpiling and management, off-site soil disposal at licensed disposal facilities (including disposal facility approvals, truck loading and transportation to disposal facility), removal of two, partially buried steel 10,000-gallon fuel oil tanks (includes pumping, cleaning, and off-site disposal of tanks and all materials), and installation and maintenance of erosion and sedimentation controls in the work areas. Work will also include pumping, settlement, storage, and disposal of petroleum-impacted groundwater within the tank area. All environmental remediation work associated with this bid will be completed under direct supervision of a Connecticut Licensed Environmental Professional (LEP) that has been retained for this project by the City of Danbury.

A mandatory Pre-Bid Conference will be held on Tuesday, August 20, 2019 at 1:00 in Room 3C, third floor at the Danbury City Hall to be followed by a mandatory site inspection for Contractors intending to bid on the project. The last day that questions will be accepted and responded to shall be 10:00 A.M. on Thursday, August 22, 2019.

A bid bond in an amount not less than five percent (5%) of the amount of the bid shall accompany each bid. A non-collusion statement for Prime Contractors and any addendum acknowledgements must also be submitted at the time of the bid.

A performance, labor and materials bond in an amount equal to one hundred percent (100%) of the accepted bid will be required. The Surety Company or Companies must be listed on the most recent IRS Circular 570.

This contract is subject to state contract compliance requirements, including nondiscrimination statutes and set-aside requirements. State law requires a minimum of twenty-five (25%) percent of the state-funded portion of the contract be set aside for award to subcontractors holding current certification from the Connecticut Department of Administrative Services. The contractor must demonstrate good faith effort to meet the 25% set-aside goals.

This project is subject to Connecticut Department of Labor prevailing wages.

Contractors whose bid exceeds \$500,000 shall hold a current "DAS Contractor Prequalification Certificate" (not a predetermination letter) from the Department of Administrative Services of the State of Connecticut according to C.G.S. 4a-100, C.G.S. 4b-101, and C.G.S. 4b-91. These bidders shall submit with their bids, unless noted otherwise, a "DAS Contractor Prequalification Certificate" along with a current "Update (Bid) Statement". Any bid submitted without a copy of the DAS Prequalification Certificate and an Update (Bid)

Statement shall be invalid. Contractors must be classified with DAS as "SITEWORK" with the appropriate aggregate. Additionally, any subcontractor working for a General Contractor whose work exceeds \$500,000 must also be prequalified with the DAS as per C.G.S. 4b-91 (j).

Complete plans and specifications (Contract Documents) may be obtained by contacting the Purchasing Agent's office at (203) 797-4571.

The City of Danbury reserves the right to accept or reject any or all bids and to award the contract to the bidder deemed to be for its best interest.

The City of Danbury is an Affirmative Action/Equal Opportunity Employer. Minority/Women's Business Enterprises are encouraged to apply. This contract is subject to state set-aside and contract compliance requirements.

Dated: \_\_\_\_\_

\_\_\_\_\_  
Charles J. Volpe, Jr.  
Purchasing Agent  
City of Danbury



## **INFORMATION FOR BIDDERS**

1. **RECEIPT AND OPENING OF BIDS.** The City of Danbury, Connecticut, herein called the "City", invites bids on the forms attached hereto. All blanks on these forms must be appropriately filled in as required. Bids will be received at the office of the Purchasing Agent, 155 Deer Hill Avenue, Danbury, Connecticut, until 2:00 PM on August 28, 2019 at which time they will be publicly opened and read aloud.

Proposals shall be enclosed in opaque sealed envelopes, addressed to the Purchasing Agent of the City of Danbury, 155 Deer Hill Avenue, Danbury, Connecticut. To insure proper identification, bid envelopes must indicate the name and address of the bidder, the project name and the bid number. If forwarded by mail, the opaque sealed envelope containing the proposal marked as directed, must be enclosed in another envelope addressed as specified herein before.

The City may consider informal any bid not prepared and submitted in accordance with the provisions hereof, and may waive any informalities in or reject any and all bids. Prior to the public opening of the bids, any bid submitted may be withdrawn by the bidder if said bidder discovers mathematical or clerical errors in his bid. Any such bid withdrawal may be made without penalty or prejudice. After the bids are opened, all offers will be considered firm for a period of ninety days and no bid may be withdrawn for any reason during that period except for such cause as the City of Danbury in its sole discretion deems sufficient.

2. **DESCRIPTION OF WORK.** Work consists of all labor, tools, materials and equipment necessary to conduct environmental remediation work at the Former Mallory Hat Factory Site. Work includes excavation of approximately 3,500 to 4,000 tons of petroleum and mercury-impacted soils within various locations on the site, on-site soil stockpiling and management, off-site soil disposal at licensed disposal facilities (including truck loading and transportation to disposal facility), removal of two, partially buried steel 10,000-gallon fuel oil tanks (includes pumping, cleaning, and off-site disposal of tanks and all materials), and installation and maintenance of erosion and sedimentation controls in the work areas. Work will also include pumping, settlement, storage, treatment and appropriate discharge of petroleum-impacted groundwater within the tank area. All environmental remediation work associated with this bid will be completed under direct supervision of a Connecticut Licensed Environmental Professional (LEP) that has been retained for this project by the City.

3. **PREPARATION OF PROPOSALS:** Proposals must be submitted on the prescribed form. All blank spaces must be filled in, in ink or typewritten, in both words and figures.

Soil and groundwater disposal shall be in accordance with all State and Federal Regulations. Pricing in Contractor proposals shall reflect disposal at a certified and licensed disposal facility.

4. ERRORS IN BID: In the event there is a discrepancy between the unit prices and the extended totals, the unit prices shall govern. In the event there is a discrepancy between unit prices, and/or lump sum written in words and written in figures, the unit prices and/or lump sum written in words shall govern. In case of error in the bidder's extended summation, the computed total using the unit prices and/or lump sum amounts written in words shall govern. If an error is obvious and leaves no confusion as to which amount is correct, the obviously correct amount shall govern. The amount written in words shall govern only when it is unclear or if there is confusion as to which amount is correct.

5. APPROXIMATE QUANTITIES: The quantities given in the Proposal are approximate only, being given as a basis for the uniform comparison of bids, and the City does not expressly or by implication agree that the actual work will correspond therewith.

6. BIDDERS TO CHECK APPROXIMATE QUANTITIES. Bidders must satisfy themselves by personal examination of the location of the proposed work, and by such other means as they may choose, as to the actual conditions and requirements of the work, and the accuracy of the estimate of the Engineer, and shall not, at any time after the submission of a bid, dispute or complain of such statement or estimate of the Engineer, nor assert that there has been any misunderstanding in regard to the nature or amount of the work to be done.

7. PRICES NOT CHANGED BY CHANGE OF QUANTITIES. An increase or decrease in the quantities listed, in the Proposal, for any item shall not be regarded as sufficient grounds for an increase or decrease in the price of that item, nor in the time allowed for the completion of the work, except as provided in the Contract.

8. INTENT OF CONTRACT DOCUMENTS. The intent of the Contract Documents is to obtain a complete job, satisfactory to the Engineer. It shall be understood that the bidder has satisfied himself as to the full requirements of the Contract, and has based his Proposal upon such understanding. Compensation for all work and materials required to complete the Contract shall be considered included in the various unit prices and lump sums bid and stipulated for the items listed in the Proposal.

9. ADDENDA AND INTERPRETATIONS. No interpretations of the meaning of the Contract Documents will be made to any prospective bidder orally. Every request for such interpretation should be in writing addressed to the Purchasing Agent, 155 Deer Hill Avenue, Danbury, Connecticut, 06810 and to be given consideration must be received at least five (5) days prior to the date fixed for the opening of bids. Written requests may also be faxed (Fax No. 203-796-1527) or e-mailed to the Purchasing Agent (c.volpe@danbury-ct.gov). Any and all such interpretations and any supplemental instructions will be in the form of written addenda to the specifications which will be distributed to all prospective bidders (at the respective address furnished for such purposes) not later than three (3) days prior to the date fixed for the opening of bids. Failure of any bidder to receive any such addenda or interpretations shall not relieve said bidder from any obligations under his bid as submitted. All addenda so issued shall become part of the Contract Document.

10. CONDITIONS OF WORK. Each bidder must inform himself fully of the conditions relating to the construction and labor under which the work will be performed; failure so to do will not relieve a successful bidder of his obligation to furnish all material and labor necessary to carry out the provisions of the Contract Documents and to complete the contemplated work for the consideration set forth in this bid.

At the time of the opening of bids each bidder will be presumed to have inspected the site and to have read and to be thoroughly familiar with the Contract Documents, including any and all addenda. The failure or omission of any bidder to receive or examine any form, instrument, or document shall in no wise relieve any bidder from any obligation in respect to his bid.

Bidders are notified that it is obligatory upon them to obtain by their own means, information which they may require as to the existing physical conditions, and in particular as to subsurface and ground water conditions. The City will make available to the bidder all information obtained by investigation previous to opening bids, but makes no guarantee with respect to the accuracy of such information and each bidder represents that he relies exclusively upon his own investigations and he makes his bid with a full knowledge of all conditions, and the kind, quality, and quantity of work required.

11. TIME LIMIT. The contractor guarantees that he can and will complete all work under Project No.17-15 within 120 calendar days. Charges to contract time are to begin as of the date the Contract is executed and shall include Sundays and Holidays. Charges to contract time will end on the day the work is accepted by the City.

12. QUALIFICATIONS OF BIDDERS. The Contractor must hold a current appropriate license from the State of Connecticut. **The Contractor shall submit with their bid a list of their qualifications and similar projects that they have completed. A large portion of this project involves the excavation of contaminated soil and groundwater and only contractors that can demonstrate experience with similar construction projects shall be considered qualified to submit a bid.** The City may make such investigations as it deems necessary to determine the ability of the bidder to perform the work in the manner and within the time limit stipulated, and the bidder shall furnish to the City all such information and data for this purpose as the City may request.

Contractors whose bid exceeds \$500,000 shall hold a current "DAS Contractor Prequalification Certificate" (not a predetermination letter) from the Department of Administrative Services of the State of Connecticut according to C.G.S. 4a-100, C.G.S. 4b-101, and C.G.S. 4b-91. These bidders shall submit with their bids, unless noted otherwise, a "DAS Contractor Prequalification Certificate" along with a current "Update (Bid) Statement". Any bid submitted without a copy of the DAS Prequalification Certificate and an Update (Bid) Statement shall be invalid. Contractors must be classified with DAS as "SITEWORK" with the appropriate aggregate. Additionally, any subcontractor working for a General Contractor whose work exceeds \$500,000 must also be prequalified with the DAS as per C.G.S. 4b-91 (j).

Please note the following additional language as required by DECD pertaining to DAS Contractor Prequalification:

Municipal contracts for the construction or renovation of a public works project, where the estimated value is \$500,000 or greater, will need to comply with C.G.S. Sec. 4b-91. In such cases the contractors must be pre-qualified by the State of Connecticut Department of Administrative Services (DAS). When applicable, this requirement will need to be included in the Invitation to Bid as a prerequisite for selecting the Lowest Responsible and Qualified Bidder. b. "Prequalification" means prequalification issued by DAS to bid on a contract or

perform work pursuant to a contract for the construction, reconstruction, alteration, remodeling, repair or demolition of any public building or any other public work by the state or a municipality. c. It is permissible to use AIA form A305, Contractor's Qualification i. Statement, as a prerequisite to bidding, provided prequalification ii. Does not prevent minority/women owned firms from bidding. iii. Consult your architect.

13. BID SECURITY. Each bid must be accompanied by cashier's check, certified check of the bidder, or a bid bond prepared on the Bid Bond attached hereto, duly executed by the bidder as principal and having as surety thereon a surety company approved by the City in an amount not less than five percent (5%) of the amount of the bid. The Surety company must be listed on the most recent IRS Circular 570. Such checks or bid bonds will be returned to all except the three lowest formal bidders within 3 days after the formal opening of bids. The remaining checks or bid bonds will be returned to the 3 lowest bidders within 48 hours after the City and the accepted bidder have executed the Contract, or if no Contract has been executed, within 90 days (with an additional 30 days upon bidder's consent) after the date of the opening of bids, upon demand of the bidder at any time thereafter so long as he has not been notified of the acceptance of his bid.

14. CONSENT OF SURETY. In addition to the checks or bid bond for bid security, each bid must be accompanied by a bid letter from a surety company, qualified and authorized to do business in the State of Connecticut agreeing, in event of the award of the Contract, to furnish a Performance and Payment Bond of a face value of one hundred percent (100%) of the amount of the bid.

15. LIQUIDATED DAMAGES FOR FAILURE TO ENTER INTO CONTRACT. The successful bidder, upon his failure or refusal to deliver the Performance and Payment Bond, Insurance Certificate and Corporate Resolution Form within 15 days after he has received notice of the acceptance of his bid, shall forfeit to the City as liquidated damages for such failure or refusal, the security deposited with his bid.

16. PERFORMANCE, LABOR AND MATERIALS BONDS. Within 15 days of receipt of notice of acceptance of his bid, the successful bidder must deliver to the City an executed bond in the amount of one hundred percent (100%) of the accepted bid as security for the faithful performance of his Contract and for the payment of all persons performing labor or furnishing materials in connection therewith, prepared in the form of Performance and Payment Bond attached hereto and having the security thereon such Surety company or companies as are acceptable to the City and as are authorized to transact business in the State of Connecticut.

17. AWARD. The Contract will, at the discretion of the City, be awarded on the basis of competitive bids to the lowest responsible and qualified bidder.

Lowest Responsible and Qualified Bidder: As used in this section, "lowest responsible and qualified bidder" means the bidder whose bid is the lowest of those bidders possessing the skill, ability and integrity necessary to faithfully perform the work. Should the grantee reject the lowest bidder as not responsible and/or not qualified, the grantee shall immediately notify DECD of the reasons for the rejection and request DECD concurrence. The Commissioner of DECD shall at his/her discretion either approve or deny the grantee's rejection. The grantee agrees to hold DECD harmless from any and all claims by rejected bidders.

It is the purpose of the City not to award the Contract to any bidder who does not furnish satisfactory evidence that he is responsible and that he has sufficient capital, ability, experience, and plant to enable him to prosecute the work successfully, and to fulfill all the requirements of the Contract.

The City of Danbury is not obligated for expenditures unless funds have been encumbered by Purchase Order or executed contract. Neither the decision or vote of the Board of Awards, nor the "Notice of Award" letter shall be considered an authorization for shipment or a notice to proceed with services or to order materials. A company or person who proceeds prior to receiving a Purchase Order or signing a contract does so without a contract and at their own risk.

18. REJECTION OF BIDS. The City reserves the right to reject any and all bids, or to accept any bid should it deem it to be for its best interest so to do. Bids not prepared and submitted in accordance with the provisions of Information for Bidders and/or bids which are incomplete, conditional or obscure, or which contain additions not called for, erasures, alterations or irregularities of any kind, may be rejected as informal.

The City reserves the right to reject a bid from a Contractor who is in arrears relative to a City invoice(s) on another project (police officers, etc.).

19. POWER OF ATTORNEY. Attorneys in fact who sign Contract Bonds must file with each bond a certified copy of their power of attorney to sign said bonds.

20. PRIVITY OF CONTRACT. -Neither the State, nor any of its departments, agencies, or employees is or will be a party to this Contract or any lower tier subcontract. This Contract is to be subject to regulations adopted in accordance with Section 22a-482 of the Connecticut General Statutes.

21. COVENANT AGAINST CONTINGENT FEES. The Contractor warrants that no person or selling agency has been employed or retained to solicit or secure this Contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide established commercial or selling agencies maintained by the Contractor for the purpose of securing business. For breach or violation of this warranty the City shall have the right to annul this Contract without liability or, at its discretion, to deduct from the contract price or consideration, or otherwise recover the full amount of such commission, percentage, brokerage, or contingent fee.

22. . EQUAL EMPLOYMENT OPPORTUNITY.

a.) Attention is called to the Equal Employment Opportunity provisions of the Contract (Article 75) and the requirements for affirmative action by the Contractor thereunder.

b.) A Certification of Non segregated Facilities must be submitted prior to the award of a federally assisted construction contract exceeding \$10,000. which is not exempt from the provisions of the Equal Opportunity clause. Such a certification is printed on the bid form and is deemed executed by submission of the bid.

c.) The Contractor must also provide for the forwarding of the following notice to prospective subcontractors for supplies and construction contracts where the subcontracts exceed \$10,000. and are not exempt from the provisions of the Equal Opportunity clause:

NOTICE TO PROSPECTIVE SUBCONTRACTORS OF  
REQUIREMENT FOR CERTIFICATIONS OF  
NONSEGREGATED FACILITIES

(1) A Certification of Non segregated Facilities must be submitted prior to the award of a subcontract exceeding \$10,000. which is not exempt from the provisions of the Equal Opportunity clause.

(2) Contractors receiving subcontract awards exceeding \$10,000. which are not exempt from the provisions of the Equal Opportunity clause will be required to provide for the forwarding of this notice to prospective subcontractors for supplies and construction contracts where the subcontracts exceed \$10,000. and are not exempt from the provisions of the Equal Opportunity clause.

d.) Certifications submitted by subcontractors shall be retained in the files of the prime contractor or subcontractor receiving the certification. Where a prime contractor or subcontractor does business with a concern on a continuing basis, a single certification may be submitted periodically, rather than with each transaction.

23. PRECONSTRUCTION CONFERENCE AND NOTICE TO PROCEED. Either before or soon after the actual award of the Contract (but in any event prior to the start of construction), the Contractor or his representative shall attend a Pre-construction Conference with representatives of the City of Danbury. The Conference will serve to acquaint the participants with the general plan of Contract administration and requirements under which the construction operation is to proceed, and will inform the Contractor, in detail, of the obligations imposed on him and his subcontractors by the Executive Orders concerning Equal Employment Opportunity. Labor provisions will also be covered The date, time, and place of the Conference will be furnished to the Contractor by the City of Danbury. Prior to the start of any work under this Contract, the City of Danbury must issue a written Notice to Proceed and present it to the Contractor.

24. COMMISSION ON HUMAN RIGHTS AND OPPORTUNITIES (CHRO). The contractor who is selected to perform this project must comply with CONN. GEN. STAT. §§ 4a60, 4a-60a, 4a-60g, and 46a-68b through 46a-68f, inclusive, as amended by June 2015 Special Session Public Act 15-5. State law requires a minimum of twenty-five (25%) percent of the state-funded portion of the contract for award to subcontractors holding current certification from the Connecticut Department of Administrative Services ("DAS") under the provisions of CONN. GEN. STAT. § 4a-60g. (25% of the work with DAS certified Small and Minority owned businesses and 25% of that work with DAS certified Minority, Women *and/or* Disabled owned businesses.) The contractor must demonstrate good faith effort to meet the 25% set-aside goals. For municipal public works contracts and quasi-public agency projects, the contractor must file a written or electronic non-discrimination certification with the Commission on Human Rights and Opportunities (CHRO). Forms can be found at: [http://www.ct.gov/opm/cwp/view.asp?a=2982&q=390928&opmNav\\_GID=1806](http://www.ct.gov/opm/cwp/view.asp?a=2982&q=390928&opmNav_GID=1806). See APPENDIX C for additional information related to CHRO contract compliance requirements.

CITY OF DANBURY,  
CONNECTICUT

**PROPOSAL**

TO: Purchasing Agent, City of Danbury, Connecticut

FOR: Bid No. 06-18-19-01 "Environmental Remediation Work – Former Mallory Hat Factory Site" Project No. 17-15

MADE BY: \_\_\_\_\_  
(Firm Name)

Pursuant to and in compliance with your Invitation To Bid and the Information for Bidders relating thereto, the undersigned states that he has examined the Contract Documents and the site of the work, and that he understands the purport and magnitude of the work intended, and the undersigned hereby offers to furnish all plant, materials, supplies, equipment, labor, and other facilities and things necessary or proper for or incidental to, the proper construction of the work, and to construct the said work in strict accordance with the Contract Documents and such detailed directions, plans, and drawings as may be furnished from time to time during the progress of construction by the Engineer at the following unit and lump sum prices which prices include all incidental work, viz.:

**A. BASE BID**

ITEM NO.	EST. QTY.	DESCRIPTION AND WRITTEN UNIT PRICES (IN WORDS)	PRICE / UNIT PRICE (IN FIGURES)	TOTAL (IN FIGURES)
1	1 LS	<p><b>Pre- and Post-Remediation:</b> Mobilization, equipment decontamination, demobilization. Work will include: installation of stone truck tracking pad at the main site entrance; provision and installation of project sign; installation, movement, maintenance and removal of erosion and sediment controls; provision of, maintenance, and removal of sanitary facilities; maintenance and protection of traffic; all other services, equipment and materials required to complete the scope of work that are not included in other bid items.</p> <p>_____dollars and _____cents</p>	\$ _____	\$ _____
2	1 LS	<p><b>Soil Stockpile Area Preparation (a.k.a. Soil Management Areas (SMAs):</b> Main site entrance (SMA-1 &amp; SMA-2). Polyethylene sheeting for contaminated soil (6 mil thick minimum) stockpile management; erosion control (silt fence and hay bales); deconstruction and cleanup. SMA-2 will require long term storage of stockpiled soil, so costs</p>		

ITEM NO.	EST. QTY.	DESCRIPTION AND WRITTEN UNIT PRICES (IN WORDS)	PRICE / UNIT PRICE (IN FIGURES)	TOTAL (IN FIGURES)
2 (Cont'd)		must include appropriate tarps and methods of securing for long term storage of up to 1,800 yards of soil  _____dollars and _____cents	\$ _____	\$ _____
3	1 LS	<b>Tank Removal:</b> Excavate and remove two (2) partially buried, 10,000-gallon, steel, fuel oil tanks (tanks contain approximately 150-200 gallons of residual fuel oil and water mixture). Remove necessary vegetation, all associated piping, concrete. Remove the concrete block retaining wall and proper disposal off-site; inert tank, pump, clean; and any work necessary for off-site transportation and disposal/recycling of tanks in accordance with the plans, specifications and all State and Federal Regulations.  _____dollars and _____cents	\$ _____	\$ _____
4	2,500 cubic yards	<b>Soil Excavation Activities:</b> Excavate and stockpile clean soil, and petroleum / mercury-impacted soils in designated areas throughout the site (SMA-1 and SMA-2 shown in Appendix E). Soils are to be segregated and stockpiled in designated areas as instructed by the environmental consultant/LEP.  _____dollars and _____cents	\$ _____ cubic yards	\$ _____
5	4 weeks	<b>Frac Tank:</b> 21,000-gallon frac tank; mobilization, rental, pumps, hoses, generator, 12"-diameter minimum x 12-foot long minimum perforated pipe material for installation of groundwater sump backfilled with gravel; groundwater pumping from sump during remediation; frac cleaning (include necessary equipment and materials, power washer, cleaning supplies, provide water); demobilization.  _____dollars and _____cents	\$ _____ per week	\$ _____



ITEM NO.	EST. QTY.	DESCRIPTION AND WRITTEN UNIT PRICES (IN WORDS)	PRICE / UNIT PRICE (IN FIGURES)	TOTAL (IN FIGURES)
6	1 LS	<p><b>Frac Tank Pumping and Discharge:</b> Petroleum-impacted groundwater to be treated via sock filters and granulated activated carbon (GAC) to be discharged to the City sanitary sewer system via an approved discharge permit obtained by the City. The permit will be for disposal into the sanitary sewer system. This task to include all labor, equipment and supplies (pumps, hoses, fittings, carbon vessels, carbon media, flow meter, required permit sampling, etc.). Costs to also include mobilization and demobilization of treatment equipment and proper disposal of the spent GAC once dewatering has been completed. Sewer connection to be provided by the City located 10 feet off the existing gutter line of Rose Hill Road.</p> <p>_____ dollars and _____ cents</p>	<p>\$ _____</p>	<p>\$ _____</p>
7a	2,200 tons	<p><b>Backfill Material:</b> Backfill excavation areas with natural/virgin, certified clean, bank run sand/gravel (no debris, wood, brick, pond muck, etc.). Weighted backfill tickets required. Compaction with a vibratory roller is required for the larger petroleum area and smaller areas. Compaction testing is not required.</p> <p>_____ dollars and _____ cents</p>	<p>\$ _____ per ton</p>	<p>\$ _____</p>
7b	2,000 pounds	<p><b>Chemical Oxidation Compound and Gypsum:</b> Application of approximately 2,000 pounds of chemical oxidation compound (persulfate) mixed in the open excavation below the groundwater table with dry pulverized gypsum material. Chemical oxidation compounds and the gypsum material (one truck load, 20-22 tons) are to be provided by the Contractor. A DEEP In-Situ Chemical Oxidation permit will be obtained by the City.</p> <p>_____ dollars and _____ cents</p>	<p>\$ _____ per pound</p>	<p>\$ _____</p>

ITEM NO.	EST. QTY.	DESCRIPTION AND WRITTEN UNIT PRICES (IN WORDS)	PRICE / UNIT PRICE (IN FIGURES)	TOTAL (IN FIGURES)
8	1,200 tons	<p><b>Backfill Material (beneath groundwater table):</b> Stone backfill material and placement beneath groundwater table in the petroleum excavation area; filter fabric installation above stone to prepare for backfill material.</p> <p>_____ dollars and _____ cents</p>	<p>\$ _____ per ton</p>	<p>\$ _____</p>
9	1 LS	<p><b>Dust Control:</b> Provide the necessary equipment and supplies (hoses and fittings) to control dust during remediation activities. The nearest fire hydrant is located at the intersection of Rose Hill Avenue, Beaver Street and Rose Street (located on the same side of the site). The City will provide the water from the hydrant at no cost.</p> <p>_____ dollars and _____ cents</p>	<p>\$ _____</p>	<p>\$ _____</p>
10	Est. 120 hours	<p><b>Traffic Control:</b> Traffic control by a Municipal Police Officer (with cruiser) or approved traffic control contractor for truck traffic; staging, or any other activity where traffic control is necessary. Contractor is required to pay the Police Department or approved traffic control contractor directly and submit proof of payment with their invoices plus 5% markup.</p>	<p><u>\$78.63</u> per hour</p>	<p><u>\$10,000</u></p>

**B. ADD ALTERNATES**

ITEM NO.	EST. QTY.	DESCRIPTION AND WRITTEN UNIT PRICES (IN WORDS)	PRICE / UNIT PRICE (IN FIGURES)	TOTAL (IN FIGURES)
AT-1	1,500 tons	<p><b>Petroleum Soil Disposal (non-hazardous):</b>                      Acquire a permitted disposal facility approval with soil stockpile disposal sample results that will be collected by the contractor and analyzed for the appropriate disposal facility parameters at a certified analytical laboratory. Load stockpile material, transport to and dispose of at an off-site, certified disposal facility as non-hazardous material <b>for certified destruction or reuse facility</b> in accordance with the plans, specifications and all State and Federal Regulations.</p> <p>_____dollars                      and _____cents</p>	<p>\$ _____                      per ton</p>	<p>\$ _____</p>
AT-2	1,850 tons	<p><b>Mercury Soil Disposal (non-hazardous):</b>                      Acquire permitted disposal facility approval with soil stockpile disposal sample results that will be collected by the contractor and analyzed for the appropriate disposal facility parameters at a certified analytical laboratory. Load stockpile material, transport to and dispose of at an off-site, certified disposal facility as non-hazardous material <b>for certified destruction or reuse facility</b> in accordance with the plans, specifications and all State and Federal Regulations.</p> <p>_____dollars                      and _____cent</p>	<p>\$ _____                      per ton</p>	<p>\$ _____</p>

**C. UNIT PRICES**

<b>ITEM NO.</b>	<b>EST. QTY.</b>	<b>DESCRIPTION AND WRITTEN UNIT PRICES (IN WORDS)</b>	<b>PRICE / UNIT PRICE (IN FIGURES)</b>	<b>TOTAL (IN FIGURES)</b>
UP-1	1,500 tons	<p><b>Petroleum Soil Disposal (non-hazardous):</b> Acquire a permitted disposal facility approval with soil stockpile disposal sample results that will be collected by the contractor and analyzed for the appropriate disposal facility parameters at a certified analytical laboratory. Load stockpile material, transport to and dispose of at an off-site, certified disposal facility as non-hazardous material <b>for reuse at a landfill facility</b> in accordance with the plans, specifications and all State and Federal Regulations.</p> <p>_____ dollars and _____ cents</p>	<p>\$ _____ per ton</p>	<p>\$ _____</p>
UP-2	1,850 tons	<p><b>Mercury Soil Disposal (non-hazardous):</b> Acquire permitted disposal facility approval with soil stockpile disposal sample results that will be collected by the contractor and analyzed for the appropriate disposal facility parameters at a certified analytical laboratory. Load stockpile material, transport to and dispose of at an off-site, certified disposal facility as non-hazardous material <b>for reuse at a landfill facility</b> in accordance with the plans, specifications and all State and Federal Regulations.</p> <p>_____ dollars and _____ cents</p>	<p>\$ _____ per ton</p>	<p>\$ _____</p>
UP-3	350 tons	<p><b>Mercury Soil Disposal (hazardous):</b> Acquire permitted disposal facility approval with soil stockpile disposal sample results that will be collected by the contractor and analyzed for the appropriate disposal facility parameters at a certified analytical laboratory. Load stockpile material, transport to and dispose of at an off-site, certified disposal facility as hazardous material in accordance with the plans, specifications and all State and Federal Regulations.</p> <p>_____ dollars and _____ cents</p>	<p>\$ _____ per ton</p>	<p>\$ _____</p>

ITEM NO.	EST. QTY.	DESCRIPTION AND WRITTEN UNIT PRICES (IN WORDS)	PRICE / UNIT PRICE (IN FIGURES)	TOTAL (IN FIGURES)
UP-4	Unit price per square yard	<p><b>Concrete Slab Removal:</b> Excavate and remove existing concrete slab. Slab thickness estimate is 4 to 6 inches. Pricing to include removal and proper disposal/recycling at an appropriate facility.</p> <p>_____dollars and _____cents</p>	<p>\$ _____ per square yard</p>	<p>Not applicable</p>
UP-5	Unit price per cubic yard	<p><b>Earth Excavation and Stockpile:</b> Excavate 0-4 feet of soil material beneath the former concrete slab foundation to include stockpiling on-site.</p> <p>_____dollars and _____cents</p>	<p>\$ _____ per cubic yard</p>	<p>Not Applicable</p>

(Proposal continued next page)

**SUMMATION**

**Provide Summation of Item A. BASE BID Prices Below:**

\_\_\_\_\_ Dollars  
 (in words)

\_\_\_\_\_ Dollars  
 (in words)

and \_\_\_\_\_ Cents. (\$ \_\_\_\_\_)  
 (in words) (in figures)

**SUMMATION:** The summation of this bid for Project No.17-15 is based on the approximate statement of quantities given above and the prices bid for the various items listed in item A. Base Bid. This statement is made with the understanding that it is not a part of the bid and is solely a matter of information for convenience in comparing the bids at the time of opening.

The bidder further declares that he/she is/they are the only person/persons interested in the Proposals and that it is made without any connection with any other person or persons making proposals for the same work and that it is in all respects fair and without collusion or fraud.

And he/she/they does/do hereby agree that if this Proposal is accepted, he/she/they will execute and deliver bond in a penalty equal to the amount of the Contract to be approved by the City of Danbury, to construct the work at the price and upon the terms proposed according to the drawings and specifications filed with the City.

Accompanying this Proposal, under separate cover, is a Bid Bond, Cashier's Check, or Certified Check for \_\_\_\_\_

Dollars (\$ \_\_\_\_\_) payable to the City. In case this Proposal is accepted by the City, and the undersigned shall fail to execute the Contract with, and to give a bond to the City, according to the Information for Bidders, then the said Bid Bond, Cashier's Check, or Certified Check shall become the property of the City; otherwise it shall be returned to the undersigned.

If written notice of the acceptance of this bid is mailed, telegraphed, or delivered to the undersigned within ninety (90) days (with an additional 30 days upon bidder's consent) after the date of opening of the bids, or any time thereafter before this bid is withdrawn, the undersigned shall, within fifteen (15) days after such date of mailing, telegraphing or delivering of such notice, deliver to the City the Performance, Labor and Materials, Bond, Insurance Certificate and Corporate Resolution Form. The Contract will be executed within ten (10) days of receipt of all required information.

\_\_\_\_\_\*\*  
 Firm Name  
 \_\_\_\_\_  
 Address  
 \_\_\_\_\_  
 Telephone  
 \_\_\_\_\_  
 By (signature)  
 \_\_\_\_\_  
 Signed by (printed or typed)  
 \_\_\_\_\_  
 Title  
 \_\_\_\_\_  
 Dated

\* Cross out words which do not apply.

\*\* If a corporation, give the State of Incorporation, using the phrase "a corporation organized under the laws of \_\_\_\_\_"

If a partnership, give names of partners, using also the phrase "Co-partners trading and doing business under the firm name and style of \_\_\_\_\_".

If an individual using a trade name, give individual name, using also the phrase "an individual doing business under the firm name and style of \_\_\_\_\_".

Full names and residences of all persons interested in this Proposal as principals are as follows:

Name:\_\_\_\_\_Address\_\_\_\_\_

Name:\_\_\_\_\_Address\_\_\_\_\_

STATE OF )  
 ) SS:  
 COUNTY OF )

\_\_\_\_\_the  
 signer of the above Proposal, being duly sworn that the several matters stated therein are in all respects true to the knowledge of the deponent.

Sworn to and subscribed to before me this \_\_\_\_\_  
 day of \_\_\_\_\_, 2019.

\_\_\_\_\_  
 Notary Public

**BID BOND**

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned \_\_\_\_\_  
\_\_\_\_\_ as Principal; and

\_\_\_\_\_ as Surety are hereby held and firmly bound unto the City of Danbury in the penal sum of

\_\_\_\_\_ for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors, and assigns.

Signed this \_\_\_\_\_ day of \_\_\_\_\_.

The condition of the above obligation is such that whereas the Principal has submitted to the City of Danbury a certain Bid, attached hereto and hereby made a part hereof, to enter into a Contract in writing, for \_\_\_\_\_.

NOW, THEREFORE,

- (a) If said Bid shall be rejected, or, in the alternate
- (b) If said Bid shall be accepted and the Principle shall execute and deliver a contract in the form of Contract attached hereto (properly completed in accordance with said Bid and shall furnish a bond for his faithful performance of said Contract, and shall in all other respects perform the agreement created by the acceptance of said Bid.

Then, this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Principal may accept such Bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, The Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations having caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, the day and year first set forth above.

\_\_\_\_\_  
Principal (L.S.)

\_\_\_\_\_  
Surety

By \_\_\_\_\_



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

CERTIFICATION OF BIDDER REGARDING  
EQUAL EMPLOYMENT OPPORTUNITY

INSTRUCTIONS

This certification is required pursuant to Executive Order 11246 (30F.R. 12319-25). The implementing rules and regulations provide that any bidder or prospective contractor, or any of their proposed subcontractors, shall state as an initial part of the bid or negotiations of the contract whether it has participated in any previous contract or subcontract subject to the equal opportunity clause; and, if so, whether it has filed all compliance reports due under applicable instructions.

Where the certification indicates that the bidder has not filed a compliance report due under applicable instructions, such bidder shall be required to submit a compliance report within seven calendar days after bid opening. No contract shall be awarded unless such report is submitted.

---

CERTIFICATION BY BIDDER

Bidder's Name: \_\_\_\_\_

Address and Zip Code: \_\_\_\_\_

\_\_\_\_\_

1. Bidder has participated in a previous contract or subcontract subject to the Equal Opportunity Clause.  
Yes \_\_\_\_ No \_\_\_\_ *(If answer is yes, identify the most recent contract.)*
2. Compliance reports were required to be filed in connection with such contract or subcontract.  
Yes \_\_\_\_ No \_\_\_\_ *(If answer is yes, identify the most recent contract.)*
3. Bidder has filed all compliance reports due under applicable instructions, including SF-100.  
Yes \_\_\_\_ No \_\_\_\_ None Required \_\_\_\_
4. If answer to item 3 is "No," please explain in detail on reverse side of this certification.

\_\_\_\_\_

Certification - The information above is true and complete to the best of my knowledge and belief.

\_\_\_\_\_  
*Name and Title of Signer (Please Type)*

\_\_\_\_\_  
*Signature*

\_\_\_\_\_  
*Date*

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

CERTIFICATION OF SUBCONTRACTOR REGARDING  
EQUAL EMPLOYMENT OPPORTUNITY

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Name of Prime Contractor

Project No.

INSTRUCTIONS

This certification is required pursuant to Executive Order 11246 (30F.R. 12319-25). The implementing rules and regulations provide that any bidder or prospective contractor, or any of their proposed subcontractors, shall state as an initial part of the bid or negotiations of the contract whether it has participated in any previous contract or subcontract subject to the equal opportunity clause; and, if so, whether it has filed all compliance reports due under applicable instructions.

Where the certification indicates that the subcontractor has not filed a compliance report due under applicable instructions, such subcontractor shall be required to submit a compliance report before the owner approves the subcontract or permits work to begin under the subcontract.

---

SUBCONTRACTOR'S CERTIFICATION

Subcontractor's Name: \_\_\_\_\_

Address and Zip Code: \_\_\_\_\_

1. Bidder has participated in a previous contract or subcontract subject to the Equal Opportunity Clause.

Yes \_\_\_\_ No \_\_\_\_

2. Compliance reports were required to be filed in connection with such contract or subcontract.

Yes \_\_\_\_ No \_\_\_\_

3. Bidder has filed all compliance reports due under applicable instructions, including SF-100.

Yes \_\_\_\_ No \_\_\_\_ None Required \_\_\_\_

4. If answer to item 3 is "No," please explain in detail on reverse side of this certification.

Certification - The information above is true and complete to the best of my knowledge and belief.

---

*Name and Title of Signer (Please Type)*

---

*Signature*

## CITY OF DANBURY

## CONTRACTOR'S QUALIFICATION STATEMENT

BID # 06-18-19-01 DATE \_\_\_\_\_

BIDDER \_\_\_\_\_ TAX ID # OR SS # \_\_\_\_\_

Failure to complete this qualification statement, the intentional withholding of pertinent information, or the making of false statements may be considered grounds for rejection of your bid.

1. Has your organization been certified as a Locally Based Enterprise (LBE), Minority Business Enterprise (MBE), Women Business Enterprise (WBE), or Disadvantaged Business Enterprise (DBE) ?

If yes, specify category of firm:

LBE: No \_\_\_\_ Yes \_\_\_\_ - Certified by \_\_\_\_\_ Date \_\_/\_\_/\_\_

MBE: No \_\_\_\_ Yes \_\_\_\_ - Certified by \_\_\_\_\_ Date \_\_/\_\_/\_\_

WBE: No \_\_\_\_ Yes \_\_\_\_ - Certified by \_\_\_\_\_ Date \_\_/\_\_/\_\_

If you answer "Yes" to any of questions 2, 3, or 4, supply details on separate sheet.

2. Has your organization or any of its affiliate firms been the subject of any of the following actions in the past five years by any government agency \* :
- a. Been suspended, debarred, disqualified, or otherwise been declared ineligible to bid?  
Yes \_\_\_\_ No \_\_\_\_
  - b. Been barred from bidding or denied a contract as a result of failure to meet statutory affirmative action or MBE/LBE requirements? Yes \_\_\_\_ No \_\_\_\_
  - c. Been prevented or barred from bidding for any other reason?  
Yes \_\_\_\_ No \_\_\_\_
  - d. Been denied a contract despite being the low bidder for any other reason?  
Yes \_\_\_\_ No \_\_\_\_
  - e. Had liquidated damages assessed against it upon completion of a contract?  
Yes \_\_\_\_ No \_\_\_\_
  - f. Been defaulted on any contract? Yes \_\_\_\_ No \_\_\_\_
  - g. Had a contract terminated? Yes \_\_\_\_ No \_\_\_\_

\* Government agencies include city, state and federal public agencies, quasi-public agencies, authorities and corporation, public development corporations and local development corporations.

3. In the past five years, has your organization or any current or past key people or affiliate firms been a party to any lawsuits from public or private construction projects?  
Yes \_\_\_\_\_ No \_\_\_\_\_

If "yes", indicate in the explanation whether your organization, key people or key firms were plaintiffs or defendants.

4. Claims and Suits: Has your organization ever failed to complete any work awarded to to it? Yes \_\_\_\_\_ No \_\_\_\_\_

5. On a separate sheet, list all comparable or larger projects your organization has in progress, giving the name of the project, owner, architect, contract amount, percent complete and scheduled completion date. Also, state total worth of work in progress and under contract. Yes \_\_\_\_\_ No \_\_\_\_\_

6. On a separate sheet, list all comparable or larger projects your organization has completed in the past five years, giving the name of the project, owner, architect, contract amount, date of completion and percentage of the cost of the work performed with your own forces.  
a. State average annual amount of construction work performed during the past five years.

I certify that to the best of my knowledge the information given in response to each question is full, complete and truthful.

I acknowledge that the City of Danbury (the "City") may, by means it deems appropriate, determine the accuracy and truth of the statements made in this application.

I recognize that all the information submitted is for the express purpose of inducing the City to award a contract.

I authorize the City to contact any entity named in the application for purposes of verifying the information supplied by the applicant.

\_\_\_\_\_/\_\_\_\_\_  
Name (print) Date

\_\_\_\_\_/\_\_\_\_\_  
Signature Title

STATE OF )  
 ) SS:  
COUNTY OF )

\_\_\_\_\_ the signer of the above statement, being sworn that the several matters stated therein are in all respects true to the knowledge of the deponent.

Sworn to and subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_ 2019.

\_\_\_\_\_  
Notary Public

**CONTRACT**

This Agreement for the construction of Project No. 17-15 Comprising "Environmental Remediation Work - Former Mallory Hat Factory Site" and related work in Danbury, Connecticut made and entered into triplicate this \_\_\_\_\_ day of \_\_\_\_\_, in the year Two Thousand and nineteen, by and between the City of Danbury, hereinafter designated the "City", party of the first part, and \_\_\_\_\_ hereinafter designated the "Contractor", party of the second part.

WITNESSETH: That the parties to these presents, for themselves and for their successors or assigns, each in the consideration of the undertaking, promises and agreements on the part of the other herein contained, do hereby covenant, undertake, promise, and agree as set forth in the following pages:

Art. 1. AGREEMENT. The Contractor shall do all work and furnish all tools, plant, equipment, labor, and materials, except such as may be hereinafter specifically excluded, necessary, or proper for performing and completing the work specified herein.

Art. 2. DEFINITIONS. A number of words frequently used in the Contract Documents shall have the following meanings:

"ADDENDA" Written or graphic instruments issued prior to the execution of the Agreement which modify or interpret the Contract Documents, Drawings and Specifications by additions, deletions, clarifications or corrections.

"BID" The offer or proposal of the Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.

"BIDDER" Any person, firm or corporation submitting a Bid for the Work.

"BONDS" Bid, Performance, and Payment Bonds and other instruments of security, furnished by the Contractor and his surety in accordance with the Contract Documents.

"CHANGE ORDER" A written order to the Contractor authorizing an addition, deletion or revision in the Work within the general scope of the Contract Documents, or authorizing an adjustment in the Contract Price or Contract Time.

"CITY" shall mean the City of Danbury, the subscribing party of the first part entering into this Contract, or any of its officers or employees duly authorized to act in the execution of the work covered by this contract.

"CONTRACT" shall refer to this Agreement, also to the sum total work subject to this agreement.

"CONTRACTOR" (with a Capital "C"), or a pronoun in place thereof, shall mean the subscribing party of the second part entering into this Contract, and his or its legal representative. For convenience, the Contractor is referred to herein as an individual.

"DRAWINGS" shall mean the Contract Drawings and all supplementary drawings furnished by the Engineer pertinent or supplemental thereto, and such detail and working drawings as the Contract Documents may require the Contractor to furnish, when such drawings have been duly approved.

"ENGINEER" or a pronoun in place thereof, shall mean the person, or his authorized representative, who is designated by the City and acts as its agent in the inspection and general direction of the construction work embraced in this Contract.

"FIELD ORDER" A written order effecting a change in the Work not involving an adjustment in the contract price or an extension of the contract time, issued by the City or its duly authorized representative to the Contractor during construction.

"HUD" shall mean the United States of America (acting through the Department of Housing and Urban Development) which (subject to the provisions of a contract for financial aid with the CITY) has agreed to purchase certain obligations of the CITY to aid in financing the work to be performed under the Contract. However, nothing contained in the Contract shall be construed to create any contractual relationship between the Contractor and HUD.

"MATERIAL" (or "materials") shall mean all the things of any kind, nature, and class as may be specified which become a part of or are used in the construction of the work, together with all manufactured or prepared materials, articles, equipment, accessories, appliances, appurtenances, supplies, and parts used therein or placed thereon.

"PHRASING" Wherever in the specifications or upon the drawings the words "directed", "required", "permitted", "ordered", "designated", "approved", or words of like import are used, it shall be understood that the direction, requirements, permission, order, designation, or approval of the Engineer is intended.

Wherever in the specifications the words "detailed", "noted", "shown", or words of like import are used, it shall be understood that these words mean as detailed, noted, or shown on the drawings; and where the word "specified" is used, it shall be understood to mean as specified herein.

"SHOP DRAWINGS" All drawings, diagrams, illustrations, brochures, schedules and other data which are prepared by the Contractor, a Subcontractor, manufacturer, Supplier or distributor, which illustrate how specific portions of the Work shall be fabricated or installed.

"SITE" shall mean the area or areas of ground which is the location for the performance of work.

"SPECIFICATIONS" A part of the Contract Documents consisting of written descriptions of a technical nature of materials, equipment, construction systems, standards and workmanship.

"STRUCTURES" shall mean the concrete, masonry or steel bridges, retaining walls, buildings, chambers, or other works which are to be built under this Contract, or which may be encountered in the work, and which are not otherwise classified herein.

"SUBCONTRACTOR" An individual, firm or corporation having a direct contract with the Contractor or with any other Subcontractor for the performance of a part of the Work at the site.

"SUPPLIER" Any person or organization who supplies materials or equipment for the Work, including that fabricated to a special design, but who does not perform labor at the site.

"SURETY" shall mean the person, persons, or corporate body which is bound with and for the Contractor, and which binds itself or himself for the payment of all debts pertaining to, and for the acceptable performance of, the work for which he has contracted, as more particularly set forth in the Performance and Payment Bond.

"WORK" shall mean all plant, labor, materials, supplies, the structures or parts thereof, on which work is underway or completed, equipment, rentals, insurance, Performance and Payment Bond, and other facilities and things agreed to be furnished and done by the Contractor, and necessary or proper for or incidental to the carrying out and completion of the terms of this Contract, including all shop and field tests of equipment and structures, operation of equipment, and maintenance for one year.

Art. 3. CONTRACT DOCUMENTS. Whenever the term "Contract Documents" is used, it shall mean and include this Contract, the Advertisement, Information for Bidders, Proposal, Bid Bond, Performance and Payment Bond, Certificate of Attorney, Specifications (General Provisions and Contract Items), Drawings, and all Addenda.

The Contract Documents are complementary and what is called for by any one or more of them though not mentioned in the others, shall be as binding as if called for by all of them. In case of any conflict or inconsistency between the provisions of the Contract and the specifications, the provisions of the Contract shall govern.

Anything shown on the drawings and not mentioned in the specifications or mentioned in the specifications and not shown on the drawings, shall have the same effect as if shown or mentioned respectively, in both. In case of any conflict or inconsistency between the drawings and specifications, the matter shall be submitted by the Contractor to the Engineer, whose decision thereon shall be conclusive and binding on the Contractor, as if same were specifically set forth in the Contract.

Art. 4. SCOPE OF THE WORK. The Contractor shall, under the bid and stipulated prices, furnish all labor, materials, plant, power, light, heat, fuel, water, tools, appliances, equipment, supplies, and any and all other means of construction necessary or proper for performing and completing the work; do all work including extra and additional work, and pay all costs incidental thereto as provided in Art. 38; restore to their original condition all surfaces disturbed; bear all costs of insurance; bear all losses due to the nature of the work and costs incidental to suspension or discontinuance of the work; except as herein provided; take all risks of whatever nature; indemnify the City from all claims, as herein provided; obtain and pay for all permits unless otherwise provided; conform to all federal, state, county, local or municipal legislation and requirements; undertake all cutting, fitting, and/or patching



of his work required to bring it into conformity with the Contract Documents; leave intact the work of adjoining contractors, unless otherwise ordered; perform and complete the work, including all operating tests to the satisfaction of the Engineer, and in the manner best calculated to promote rapid construction and consistent with safety of life and property, and in strict accordance with the Contract Documents; protect the work during construction; clean up the work during and after construction; and maintain it until final acceptance or as provided in Art. 19.

The Contractor shall, under the bid and stipulated prices, do all work and pay all costs of cutting, fitting, patching, protecting, supporting, maintaining, repairing if damaged, relocating and restoring all surface, subsurface, and overhead structures, and all other property, including the work of other contractors, and pipe, conduits, ducts, tubes, chambers, and appurtenances, public or private, in the vicinity of the work.

It is intended that the unit and lump sum prices bid and stipulated include all the work to be done which will result in a complete installation of first class workmanship and material ready for operation, and that any appurtenant accessory, or work allied to any particular item of work and necessary for its proper operation or completion will be furnished and installed under the unit and lump sum prices bid and stipulated under this Contract.

Art. 5. REPRESENTATIONS OF CONTRACTOR. The Contractor represents and warrants:

(a) that he is financially solvent and that he is experienced in and competent to perform the type of work, and to furnish the plant, materials, supplies, and equipment, to be so performed or furnished by him.

(b) that he is familiar with all federal, state, county, and municipal laws, ordinances, and regulations, which may in any way affect the work or those employed therein, including, but not limited to, any special acts relating to the work or the project of which it is a part,

(c) that such temporary and permanent work required by the Contract Documents as is to be done by him can be satisfactorily constructed and used for the purpose for which it is intended, and that such construction will not injure any person or damage any property, and

(d) that he will make no claims against the City, if in carrying out the project he finds that the actual conditions encountered do not conform to the information shown in the Contract Documents, or the conditions that might be expected from surface and/or subsurface indications.

Art. 6. RESPONSIBILITY OF CONTRACTOR. The Contractor shall take all responsibility of the work, shall bear all losses resulting to him on account of the amount or character of the work, or from any unforeseen obstructions, encumbrances, or difficulties which may be encountered, or from the breaking of or leakage from any pipe, water main or sewer, or because the nature of the land in or on which the work is done is different from what is assumed or was expected, or on account of the weather, floods or other causes, or from delayed deliveries of equipment required for any related or adjoining contract; and he shall assume the defense of and indemnify and save harmless the City and its officers and agents from all claims of any kind arising from the performance of this Contract, except claims for injuries to or death of employees of the City not due to negligence of the Contractor or of any subcontractor performing any portion of the work included in this Contract.

Art. 7. SUBCONTRACTORS. If the Contractor shall cause any part of this Contract to be performed by a subcontractor, the provisions of this Contract shall apply to such subcontractor, and his officers, agents, and employees in all respects as if he and they were employees of the Contractor, and the Contractor shall not be in any manner thereby discharged from his obligations and liabilities hereunder, but shall be liable hereunder for all acts, defaults, and negligence of the subcontractor, his officers, agents, and employees as if they were employees of the Contractor. The employees of the subcontractor shall be subject to the same provisions hereof as the employees of the Contractor; and the work and materials furnished by the subcontractor, and the insurance requirements, shall be subject to the same provisions hereof as those furnished directly by the Contractor.

The Contractor before making any subcontract for any portion of the work, shall state in writing to the City the name of the proposed subcontractor, the nature and extent of the work to be done or the materials or equipment to be furnished by such subcontractor, his place of business, and such other information as the City may require. The Contractor shall not award any subcontract until the proposed subcontractor has been approved by the City, and evidence has been presented to the City that employees of the subcontractor

are protected by compensation insurance, and that the subcontractor has taken out public liability and property damage insurance, as required by this Contract.

The City reserves the right to withhold approval of subcontracts, the sum total of which exceeds 60 percent of this Contract, and to require the Contractor to perform directly with his own employees not less than 40 percent of the total value of the Contract held by him, such percentages to be calculated on the basis of the estimated contract amount, as entered in Art. 21.

Upon approval by the City of any subcontractor, the Contractor shall file with the City a true copy of his contract with such subcontractor before the latter commences work, and in any event within 2 weeks after approval.

Art. 8. PERSONAL ATTENTION AND ASSIGNMENT. The Contractor shall give his personal attention constantly to the faithful prosecution of the work, and shall be present, either in person or by a duly authorized competent representative, on the site, continually during its progress, to receive directions or instructions from the Engineer. He shall maintain an office at or near the site, where copies of the Contract Documents and of all working drawings shall be kept ready for use at any time. Orders from the Engineer left at this office shall be considered as delivered to the Contractor.

The Contractor shall not assign, transfer, convey, sublet, or otherwise dispose of this Contract, or his right, title, or interest in or to the same or any part thereof, without the previous consent in writing of the City indorsed upon the copies of the assignment filed in the office of the City, and he shall not assign, by power of attorney or otherwise, any of the moneys to become due and payable under this Contract, unless by and with the like consent signified in like manner.

If the Contractor shall, without such previous written consent of the City, assign, transfer, convey, sublet, or otherwise dispose of this Contract, or of his right, title or interest therein or any of the moneys to become due under this Contract, to any other person, company or other corporation, this Contract may, at the option of the City, be revoked and annulled, and the City shall thereupon be relieved and discharged from any and all liability and obligations growing out of the same to the Contractor, and to his assignee or transferee; provided that nothing herein contained shall be construed to hinder, prevent, or affect an assignment by

the Contractor for the benefit of his creditors, made pursuant to the statutes of the State of Connecticut; and no right under this Contract, or any moneys to become due hereunder, shall be asserted against the City in law or equity, by reason of any so-called assignment of this Contract, or any part thereof, or of any moneys to grow due hereunder, unless authorized as aforesaid by the written consent of the City.

In the event the City will elect to terminate the Contract under the terms of this Article, the surety shall continue to remain liable for any and all claims which the City may have against said Contractor.

Art. 9. SUPERINTENDENCE BY CONTRACTOR. The Contractor shall employ at the site during the performance of any part thereof a competent foreman or superintendent who shall be satisfactory to the Engineer, and all directions given such foreman or superintendent shall be as binding as if given to the Contractor.

Art. 10. COMPETENT WORKMEN. The Contractor shall employ only competent, skillful men to do the work, and whenever the Engineer shall notify the Contractor, in writing, that any man on the work is incompetent, unfaithful, disorderly, or otherwise unsatisfactory, such man shall be discharged from the work, and shall not again be employed on it, except with the consent of the Engineer.

Art. 11. TIME OF DOING THE WORK. The Contractor shall commence the work embraced in this Contract within 10 calendar days after the execution of this Contract, and shall complete the same in all respects, except for maintenance within the time limit specified in Art. 11 of the "Information for Bidders."

Art. 12. NIGHT, WEEKEND AND HOLIDAY WORK. Unless otherwise especially permitted by the Engineer, no work shall be done between the hours of 6:00 P.M. and 7:00 A.M., nor on Saturday, Sunday or Holidays, except as necessary for the proper care and protection of the work already performed. If the Engineer approves Saturday and Sunday work, the Noise Ordinance hours must be adhered to. The Engineer shall be informed a reasonable time in advance of the beginning of performance of such work. Only such work will be permitted at night as can be done satisfactorily and in a first class manner and without disturbance to adjoining property owners. Good lighting and all other facilities for carrying out and inspecting the work shall be provided and maintained at all points where such work is being done. The parties hereto recognize and agree that the work is affected with a public

interest, affecting the health, safety, and general welfare of the people of the City of Danbury.

Art. 13. CONSTRUCTION PROGRAM. Within 2 weeks after the signing of the Contract, the Contractor shall prepare and submit for approval six copies of a detailed chronological construction program or time table, setting forth clearly each stage of the work and the time allowed for each stage, including approximate delivery dates of materials, and the time allowed for the installation of materials, in order to complete all the work fully within the time fixed herein, and, if required, he shall revise and resubmit the program until it is approved. Confirmed delivery dates for materials shall be furnished as soon as practicable after the submission of the construction program.

The Contractor, within 7 days after being notified of an unsatisfactory program, shall resubmit a revised program for approval. If, subsequent to the initial approval, unforeseen circumstances necessitate a modification of the approved construction program, as determined by the Engineer, the Contractor, within 7 days after such notification, shall submit a revised program for approval.

The Contractor shall adhere to such program, and, if necessary to do so, he shall supply, without increased cost to the City, additional labor and/or additional shifts of labor and overtime, and procure materials and equipment more promptly.

The Engineer shall have the right to order the Contractor to prosecute the work simultaneously at and from as many different points or parts as the Engineer may deem necessary to assure completion within the contract time. Failure to comply with any such work order shall constitute a breach thereof.

The Contractor shall also submit, with such construction program, his plans for plant and his specifications covering methods of construction and of handling materials which he proposes to use in the performance of work. Approval, however, of any proposed plans of plant and such specifications shall not be deemed to relieve the Contractor of any liability or responsibility placed upon him by this Contract or by law.

Art. 14. TIME OF THE ESSENCE. Inasmuch as the provisions of this Contract relating to the time for performance and completion of the work are for the purpose of

enabling the City to proceed with its normal economic life and are to minimize damage to the safety and welfare of the people of the City, such provisions are of the essence of this Contract.

Art. 15. EXTENSIONS OF TIME: NO WAIVER. If the Contractor shall be delayed in the completion of his work by reason of unforeseeable causes beyond his control, and without his fault or negligence, including but not restricted to, acts of God or of the public enemy, acts or neglect of the City, acts or neglect of any other contractor, fires, flood, epidemics, quarantine restrictions, strikes, riots, civil commotion's, or freight embargoes, the period specified herein above for completion of his work may be extended by such time as shall be fixed by the City.

No such extension of time shall be deemed a waiver by the City of its right to terminate the Contract for abandonment or delay by the Contractor as herein provided or relieve the Contractor from full responsibility for performance of his obligations hereunder.

Art. 16. USE: NO WAIVER. Neither the acceptance by the City or the Engineer, or any of their agents, employees, or subordinates, of the whole or any part of the work, nor the connecting to or use of any of the work embraced in this Contract, nor any payment for the work, nor any extension of time, nor any possession taken by the City, shall operate as a waiver of any portion of this Contract (except the maintenance period which shall start when continual use begins, as provided in Art. 19), or of any power or right herein reserved to the City or Engineer, or of any right of the City to damages herein provided, nor shall any waiver of any breach of this Contract be held to be a waiver of any other or subsequent breach. Any remedy provided in this Contract shall be taken and construed as cumulative, that is, in addition to each and every other remedy herein provided; and the City shall also be entitled as a right to writ of injunction against any breach of any of the provisions of this Contract.

The City reserves the right to occupy in whole or in part any structure or structures, or any part or parts thereof, built hereunder, or in which, or in any part of which, work is performed hereunder, and also to use for the purpose intended any equipment or any part thereof, furnished and installed by the Contractor whenever, in the opinion of the Engineer, any portion of the work is completed or is in an acceptable condition for use.

The use of any such portion of the work shall be considered a test or trial, and shall not be held in any way a final acceptance of the portion of the work used or a waiver of any portion of these Contract Documents except as herein before provided. The only right, except as herein before provided, that the Contractor shall have by reason of such acceptance or use, shall be to request an extension of time for completion of this Contract, as approved by the City, if such occupancy and use shall delay the completion of the work remaining to be performed.

Art. 17. SUSPENSION OF WORK. The City reserves the right to suspend the whole or any part of the work herein contracted to be done, if it shall deem it for the best interests of the City so to do, without compensation to the Contractor for such suspension, except as provided in Art. 62.

Art. 18. ADDITIONAL TIME FOR PERFORMANCE. If the said work shall be delayed in consequence of any act or omission of the City (which shall be determined by the City, and whose determination and certification thereof shall be binding and conclusive upon the Contractor), the Contractor shall be entitled to such additional time within which to complete the Contract on his part as the City, in its judgment, shall deem to be required.

Art. 19. MAINTENANCE. During a period of one year (except for mechanical and electrical components, as described below) subsequent to the date of the acceptance of the work, as defined in Art 28, by the City, or as provided hereinafter, the Contractor agrees to replace the material which does not conform to Contract requirements, and to repair any damage of the material or of the work, without cost to the City, to the satisfaction of the Engineer, and in conformity with the Contract Documents, provided that orders for such replacements or repairs are received by him in writing within the one year period. However, electrical equipment and/or mechanical equipment installed as part of the project are to be maintained by the Contractor through two (2) winter and two (2) summer seasons before the electrical equipment and/or the mechanical equipment are finally accepted by the Engineer and the two percent (2%) retainages associated with said electrical equipment and/or mechanical equipment are released. The Contractor is not obligated thereby to do any work of replacement or repair that he may prove, to the satisfaction of the Engineer, to have resulted from abuse of the work, or materials, by parties other than the Contractor, after the date when the City puts to use that part of the work requiring replacements or

repairs, or has approved the Certificate of Completion, and has accepted the work.

If the City shall deem it necessary, and shall so order, such replacements or repairs shall be undertaken within 24 hours after service of notice. If the Contractor unnecessarily delays or fails to make the ordered replacements or repairs within the time specified, or if any replacements or repairs are of such nature as not to admit of the delay incident to the service of a notice, then the City shall have the right to make such replacements or repairs and the expense thereof shall be paid by the Contractor or deducted from any moneys due the Contractor, or from any moneys of the Contractor retained by the City.

If the City puts any structure or equipment to the use for which it is built or installed, previous to the acceptance of all work under the Contract, the maintenance period for such structure or equipment shall be calculated from the time when such use begins. The Contractor will be responsible for regularly scheduled tuneups/maintenance of the electrical equipment and/or mechanical equipment during the above noted two (2) year Contractor maintenance period relative to said electrical equipment and mechanical equipment.

Art. 20. RETAINED PERCENTAGE DURING MAINTENANCE PERIOD. There will be retained without interest by the City for a period of one year from the date of "acceptance of the work", as defined in Art. 28, 2 percent of the value of the total work done as shown on the final estimate, to insure the maintenance and repair or replacement of the work or materials by the Contractor, as required by the terms of this Contract. In the case of any electrical equipment and/or mechanical equipment installed as part of the project work, the two percent (2%) retainage related to said electrical equipment and/or mechanical equipment will not be released until the electrical and/or mechanical systems have experienced two (2) winter and two (2) summer seasons and the electrical equipment and/or mechanical equipment are deemed as performing in a manner satisfactory to the Engineer.

Art. 21. COMPENSATION TO BE PAID TO CONTRACTOR. The City will pay, and the Contractor shall receive, the price set forth for the lump sum and/or unit prices bid in the Proposal.

Art. 22. NO CLAIM FOR BID QUANTITIES. The Contractor admits that the estimated quantities of the several classes of work and kinds of material stated in the Proposal are approximate and are to be used only for the purpose of



comparing bids offered for the work. The Contractor agrees that he will not hold responsible the City, its officers and agents should any of the estimated quantities be found not even approximately correct; and that he will make no claim for anticipated profits or for loss of profit, because of a difference between the quantities of work actually done or materials actually delivered and the estimated quantities stated in the Proposal.

Art. 23. BREAKDOWN STATEMENT - LUMP SUM BIDS. At the time of the signing of the Contract, the Contractor shall furnish the Authority triplicate copies of a breakdown statement of his lump sum bid in the Proposal, in such detail and form as will be acceptable to the Engineer, for use in preparing the periodic estimates. The breakdown shall show the delivered price of material and the allowance for installation, which may be enumerated in any periodic estimate for payment as provided in Art. 24; and shall be so made as to facilitate the preparation of periodic estimates.

Art. 24. MATERIALS INCLUDED IN PERIODIC ESTIMATES. Allowances for payment to the extent listed herein, for all equipment and materials may be included in the next periodic estimate after the stages enumerated herein have been reached:

(a) upon completion of delivery, 65 percent of the delivered price.

(b) upon completion of erection or installation, 85 percent of the installed price, and

(c) upon successful completion of acceptance tests, 100 percent of the installed price.

All such equipment and materials included for payment in the periodic estimate shall be and become the property of the City and, on demand, the Contractor at his own expense shall promptly execute, acknowledge, and deliver or cause to be executed, acknowledged, and delivered to the City for any and all such equipment and materials included in any periodic estimate, proper bills of sale or other instruments in writing in a form and as required by the City from the Contractor and from any person, firm, or corporation manufacturing for, or selling or shipping or delivering to the Contractor any such equipment and materials, conveying and assuring to the City title to such material included in such estimate free from all liens and encumbrances; and the Contractor at his own expense shall mark such materials as the property of the City and shall take such other steps, if any, as the City may

require or regard as necessary to vest title in the City to such equipment and materials free from all liens and encumbrances. The Contractor shall, however, notwithstanding such transfer of title to the City be absolutely responsible to the City for any loss or damage to such equipment and materials until the same shall have been completely installed and tested, all work under the Contract completed and accepted, and shall at his own cost replace any equipment and materials lost or damaged.

Art. 25. PREPARATION OF ESTIMATES. Preliminary drafts of estimates for periodic or monthly payment shall be delivered to the office of the Engineer no later than the fifth day of the month following the period covered by such estimate. After the preliminary drafts have been approved, final drafts of such estimates shall be prepared by the Contractor, and delivered to the office of the Engineer no later than the tenth day of the month following the period covered by such estimate. Classes of work listed on a periodic estimate shall be only those approved, and in the quantities so approved. Equipment, materials, and work shall be considered only to the extent, approved by the Engineer, as indicated on daily report sheets, as of the date on which the work was done.

No such estimate or payment shall be required to be made when, in the judgment of the Engineer, the total value of the work done since the last estimate amounts to less than Two Thousand Dollars (\$2,000.00).

Deviation from the above procedure by the Contractor will result in disapproval of the estimate. The work and materials included on such disapproved estimate shall not be submitted for consideration until the next periodic estimate is submitted.

Art. 26. DAILY REPORTS AND DELIVERY SLIPS. Daily reports shall be prepared by the Contractor on forms supplied by the Engineer, and shall be submitted to the Engineer on or before noon of the day following the day's work reported, properly prepared and signed.

The Contractor shall furnish the Engineer with copies of delivery slips covering all materials, delivered to the site, which is to be included in any periodic estimate. All materials delivered to the site, whether from a supplier's warehouse or from the Contractor's stock, shall be covered by such delivery slips. Delivery slips shall be submitted daily with the daily report sheets.

Deviation from the above procedure by the Contractor, as to daily reports and delivery slips, will result in disapproval of items of work. Such disapproved items shall not be included in any periodic estimate until properly reported on daily reports and/or on approved delivery slips.

Art. 27. PAYMENT. Not later than sixty (60) days from the date of the City's receipt of the final draft of a periodic or monthly payment estimate as set forth in Art. 25, the City will make partial payment to the Contractor on the basis of the estimate of the work performed during the preceding period by the Contractor, and duly approved and certified by the Engineer, which estimate includes the allowances set forth in Art. 24. All such payments shall be considered tentative only, subject to correction in the final estimate, and need not be based on accurate measurement. These payments are to be made purely to aid the Contractor to meet his current bills and for no other purpose.

The City will retain five percent (5%) of the amount of each such estimate until final completion and acceptance of all work covered by this Contract.

The Contractor shall pay:

(a) for all transportation and utility services not later than the twentieth day of the calendar month following that in which such services are rendered, and

(b) for all materials, tools, and expendable equipment and supplies to the extent of 90 percent of the cost thereof, not later than the twentieth day of the calendar month following that in which such materials, tools, and equipment are delivered at the site, and the balance of the cost thereof not later than the thirtieth day following the completion of that part of the work in or on which such materials, tools, and equipment are incorporated or used, and

(c) to each of his subcontractors, not later than the fifth day following each payment to the Contractor, the respective amounts allowed the Contractor on account of the work performed by his subcontractors, to the extent of each such subcontractor's interest therein.

Failure by the Contractor to defray the charges listed in (a), (b), and (c), herein before, shall constitute grounds for disapproval by the Engineer of the current periodic estimate for partial payment.

Art. 28. CERTIFICATE OF COMPLETION. Upon completion of all project work required, including all components of the work being done by all other contractors involved in this project, except maintenance, as explained in Art. 19 the Engineer shall file a Certificate of Completion with the City and with the Contractor certifying that all work has been performed and materials supplied in full accordance with the terms of the Contract. Approval of the Certificate of Completion by the City shall constitute "acceptance of the work".

Art. 29. FINAL ESTIMATE AND SEMI-FINAL PAYMENT. Upon completion of all project work required, including all components of the work being done by all other contractors involved in this project, except maintenance, as explained in Art. 19, the Engineer shall file with the City a "final estimate" stating, from actual measurements or observation, the entire amount of work performed and compensation earned by the Contractor, including Extra Work and compensation therefor, under and according to the terms of the Contract. The City reserves the right to disregard claims for compensation submitted by the Contractor after the date of the final estimate.

Within sixty (60) days after the receipt of the final estimate, the City will pay to the Contractor the amount therein stated, less the 2 percent retained in accordance with Art. 20, and less all prior payments and advances whatsoever to or for the account of the Contractor. All prior estimates and payments shall be subject to correction by this payment, which is throughout this Contract called the semi-final payment. In any event, the semi-final payment will not be released to the Contractor until all outstanding claims against the Contractor shall have been satisfied.

Art. 30. ACCEPTANCE OF SEMI-FINAL PAYMENT CONSTITUTES RELEASE. The acceptance by the Contractor of the semi-final payment shall be and shall operate as a release for all things done or furnished in connection with this work and for every act of the City and others relating to or arising out of this work. No payment, however, semi-final or otherwise, shall operate to release the Contractor or his sureties from any obligation under this Contract or the Performance and Payment Bond.

Art. 31. FINAL CERTIFICATE AND FINAL PAYMENT. One year after the date of acceptance of the work by the City, as defined in Art. 28, the Engineer shall file with the City a "final certificate" certifying that all work has been performed and materials supplied in full accordance with the

terms of the Contract and stating therein the amount retained during the maintenance period, and any costs to compensate for additional claims put forward by the Contractor as described in Art. 35. Upon approval of the final certificate by the City, The City will pay, to the Contractor the amount therein stated.

Final payment, however, will not be released to the Contractor until:

- (a) he presents proof that all claims against the Contractor have been satisfied, and
- (b) he secures and files with the City statements from owners of utilities and other property owners that the Contractor has satisfactorily maintained, replaced, and restored their property at the site.

However, in the case of electrical equipment and/or mechanical equipment installed as part of the project work, the acceptance of said electrical equipment and/or mechanical equipment shall be two (2) years after the acceptance of the work by the City, as defined in Art. 28 (after two (2) winter and two (2) summer cycles). All other requirements of this article pertain for said electrical equipment and/or mechanical equipment.

Art. 32. CITY'S RIGHT TO WITHHOLD PAYMENTS. The city may withhold from the Contractor as much of any approved payments due him as many in the opinion of the City be necessary:

- (a) to assure the payment of just claims of any persons supplying labor or materials for the work then due and unpaid,
- (b) to protect the City from loss due to defective work not remedied, or
- (c) to protect the City from loss due to injury to persons or damage to the work or property of other contractors, subcontractors, owners of utilities, or others caused by the act or neglect of the Contractor or of any of his subcontractors.

The City shall have the right, as agent for the Contractor, on orders of the Contractor, or with the sanction of a court having jurisdiction, to apply any such amounts so withheld in such manner as the City may deem proper to satisfy such claims or to secure such protection. Such

application of such moneys shall be deemed payments for the account of the Contractor.

If the moneys retained under this Contract are insufficient to pay the sums found by the City to be due under the claims for labor and materials, the City may, at its discretion, pay such sums, and the Contractor shall repay to the City all sums so paid out.

Art. 33. LIENS: If any time before or within sixty (60) days after the whole work herein agreed to be performed and all the labor and material herein agreed to be performed or delivered, shall have been performed or delivered, or completed and accepted by the City, any person or persons claiming to have performed any labor or furnished any material toward the performance or completion of this Contract shall file with the City, any such notice as is described in the Lien Law, the City shall retain until the discharge thereof, from the moneys under its control, so much of such moneys as shall be sufficient to satisfy and discharge the amount in such notice claimed to be due, together with the costs of any action or actions that may be brought to enforce such lien created by the filing of such notice.

Art. 34. POWERS OF ENGINEER. The Engineer shall make all necessary explanations as to the meaning and intent of the specifications and drawings, shall give the orders and directions contemplated under the Contract, and in every case in which a difficult or unforeseen condition shall arise in the performance of the work required by this Contract, shall have the right to determine the adequacy of the Contractor's quantity, quality, acceptability, and fitness of the several kinds of work and materials which are to be paid for; he shall determine all questions in relation to said work and the construction thereof; and he shall decide in all cases every question which may arise relative to the fulfillment of this Contract on the part of the Contractor. His estimate and decision shall be final, conclusive and binding upon said Contractor.

In case any question shall arise between the parties hereto, touching this Contract, the aforesaid estimate and decision by the Engineer shall be a condition precedent to the right of the Contractor to receive any money under this Contract. Any differences or conflicts which may arise between the Contractor and other Contractors of the City in regard to their work shall be adjusted and determined by the Engineer. Nothing herein contained shall relieve the Contractor from his or its status as an independent contractor.

Art. 35. EXAMINATION OF WORK. The Contractor shall furnish the Engineer on request full facilities for ascertaining that all work is being done strictly in accordance with the requirements of the specifications, drawings, and the intent of this Contract, even to the extent of uncovering or taking out portions of finished work. Should the work thus exposed or examined prove satisfactory, the uncovering or taking out and the replacing of the covering or making good of the parts removed, shall be paid for under the provisions of Art. 38, but should the work exposed or examined prove unsatisfactory, the uncovering, taking out, replacing, and making good shall be at the expense of the Contractor.

Art. 36. ACCESS TO SITE. The City and its engineers, inspectors, agents, and other employees shall for any purpose have access to the work and the premises used by the Contractor, and the Contractor shall provide safe and proper facilities therefore, including ladders and scaffolds. Other parties who may enter into contracts with the City for doing work within the territory covered by this Contract, shall, for all purposes which may be required by their contracts, be accorded the rights of access to the site of those parts of the work for which they are under contract.

Furthermore, the City and its engineers, inspectors, and agents shall, at all times, have immediate access to all places of manufacture where materials are being made for use under this Contract and the Contractor shall provide full facilities for determining that all such materials are being made strictly in accordance with the specifications and drawings.

The Contractor shall, whenever so requested, give the Engineer access to the proper orders for materials, invoices, bills of lading, etc.

Art. 37. DEFECTIVE WORK AND UNSUITABLE MATERIALS. The inspection of the work by the Engineer shall not relieve the Contractor of any of his obligations to fulfill his Contract as herein prescribed and defective work shall be made good, and unsuitable materials may be rejected, notwithstanding that such work and materials may have been previously inspected by the Engineer and accepted or estimated for payment.

If the work, or any part thereof, shall be found defective at any time before the final acceptance of the whole work, the Contractor shall forthwith make good such defect, without compensation, in a manner satisfactory to the

Engineer, and if any materials brought upon the site for use in the work, or selected for the same, shall be condemned by the Engineer as unsuitable or not in conformity with the specifications, the Contractor shall forthwith discard such materials and remove them a satisfactory distance from the site.

If the Contractor shall fail or neglect to replace any defective work or to discard condemned materials within ten (10) days after the service by the Engineer of an order to replace such defective work or discard such materials, or to prove to the satisfaction of the City that he is initiating effective efforts to replace defective materials, the City may cause such defective work to be replaced or the condemned materials to be discarded, and acceptable materials provided, and the expense thereof shall be deducted from the amount to be paid the Contractor. If during the maintenance period provided for in Art. 19, any work done in accordance with that article shall be found defective before the end of the maintenance period, such defective work shall be made good in the same manner as provided in this article.

Art. 38. EXTRA WORK. The term "Extra Work" shall include additional work over and above that required by the Contract Documents. The City may at any time, by written order, and without notice to the sureties, require the performance of such Extra Work or changes in the work as it may find necessary or desirable. No claim for Extra Work will be considered or allowed unless such Extra Work shall have been previously ordered by the City in writing, and the method of payment determined as hereinafter set forth. In case any Extra Work shall be required in the proper performance or completion of the work contemplated to be done under this Contract, it is understood that the City reserves the right to have such Extra Work done by any person, persons, or corporation other than the Contractor, unless an agreement upon the prices to be paid for such Extra Work can be promptly reached between the City and the Contractor. Should said Extra Work be done by any person, persons, or corporation other than the Contractor, all of the provisions of Art. 40 shall apply and Contractor agrees to make no claim for damages or for any privileges or rights, other than that provided in the Contract, by reason of such work by others, except for an extension of time to perform this Contract as may be certified to the City by the Engineer, and approved by the City.

The amount of compensation to be paid to the Contractor for any Extra Work, as so classified and ordered in writing,



shall be determined by any of three methods, as approved by the City as follows:

(a) by such applicable unit prices, if any, as are set forth in the Contract; prices shall include overhead and profit for Contractor and subcontractor performing the work; or

(b) if no such unit prices are set forth, then by unit prices or by a lump sum (City reserves the right to request a detailed breakdown of such lump sum proposal) mutually agreed upon by the City and the Contractor the above prices shall include a maximum of 15% markup, which shall include overhead, profit, administration, bond, insurance, etc. and any other associated costs to perform the work by the Contractor and subcontractor; or

(c) if no such unit prices are so set forth and if the parties cannot agree upon unit prices or a lump sum, then the Contractor shall receive the true necessary cost to him, including workmen's compensation, public liability, bond, unemployment and social security insurance but exclusive of administration, general superintendence and profit, as determined by the Engineer, plus maximum 15 percent combined markup for the Contractor and subcontractor of all said necessary costs, which said combined markup shall include all costs and markups to the prime contractor and all subcontractors, which said 15 percent shall be considered as covering administration, general superintendence, profit, insurance, bond, etc., and all other expenses not included in the net cost for the Contractor and subcontractor, and the Engineer's determination and certificate of such cost when approved by the City shall be binding and conclusive on the Contractor, and the Engineer shall be deemed the arbiter to determine the cost of such work. The 15 percent markup shall be applied only one time to each necessary cost. It is understood that before any work is started or materials are ordered, the rate to be paid for labor, materials, equipment rental per the blue book monthly rate, and all other unit costs applicable to the work, and the number and kind of laborers, quantities of materials, types of equipment to be rented, and other supplies, equipment, or appurtenances to be used in initiating and continuing the work shall be mutually agreed to by the Contractor and the Engineer prior to start of the work, and the Contractor shall make no changes in the labor, materials, equipment, supplies, and appurtenances without prior approval. Prices paid by the Contractor shall be at current applicable Blue Book monthly rates for equipment, prorated for each day used, or prices mutually agreed to by the Engineer and the Contractor, and based on

wage rates in the Contract or by certified payroll, or as agreed upon if no such wage rates exist in the Contract.

All components of cost, work performed, equipment, materials, and labor furnished, shall be reported on the daily report sheets and the Contractor shall be paid on the basis of the daily reports signed by the Engineer. No payment will be made for unsigned daily reports.

Art. 39. MODIFICATION OF AGREEMENT. Where conditions require an unforeseen and major change in the drawings after the Contract has been signed, the Contractor will undertake to enter into a Supplementary Contract at agreed prices to cover the cost of said new construction, and shall, if requested, waive any right to do such construction as Extra Work.

Art. 40. WORK BY OTHERS. The City reserves the right to do any work which may connect with, become part of, or be adjacent to the work embraced in this Contract, at any time, by contract or otherwise.

The Contractor shall not molest, interfere with, nor place any obstructions in the way of such other contractor or other person or persons the City may employ and shall suspend such part, or all of his work, or shall prosecute the same in a manner, as may be ordered, to afford all reasonable facilities for doing such other work. Where contractors cannot agree as to whom has precedence in any location, decision shall rest with the Engineer.

When the territory of this Contract is the necessary or convenient means of access for the transportation of men, materials, equipment, or appliances for the execution of work by others, the privilege of access thereon or trespass thereon or any other reasonable privilege maybe granted by the Engineer. Employees of the Contractor shall not enter upon adjoining property to underpin or protect adjoining structures or for any other purpose whatsoever except with the written permission of the owners or lessees as provided by law.

This Contractor shall work in conjunction with and in cooperation with all other contractors at the site, to avoid disputes and to secure rapid progress of the work under this Contract and under other contracts. If work under this Contract endangers or interferes with any structure or a part thereof, or a permanent installation of any nature whatsoever, whether any of the foregoing are the work of this Contract or of other contractors, such dangers and

interference's shall be prevented or eliminated by adequate protection or removal; all necessary reconstruction or relocation shall be done as directed by the Engineer unless the Contract Documents specifically exempt the same. Any and all such protection, relocation and/or construction deemed necessary by the Engineer as required under this Contract shall be at the expense of this Contractor. The Contractor shall have no claim for damage against the City because of action by the City under this article and his only right shall be to apply for an extension of time for completion.

Should the Contractor sustain any damage through any act or omission of any other contractor having a contract with the City for the performance of any work upon or at the site, or of any work which may be necessary to be performed for the proper prosecution of the work to be performed hereunder; or through any act or omission of a subcontractor of such a contractor, this Contractor shall have no claims against the City for such damage, but shall have a right to recover such damage from the other contractor under the provision similar to the following provision which has been inserted in the contracts between the City and other contractors, who are performing or who will perform work upon or at the site, or will perform work which may be necessary to be performed for the proper prosecution of the work to be performed hereunder.

Should any other contractor having or who shall hereafter have a contract with the City for the performance of work upon or at the site, or of any work which may be necessary to be performed for the proper prosecution of the work to be performed hereunder, sustain any damage through any act or omission of the Contractor hereunder, or through any act or omission of any subcontractor of the Contractor, the Contractor agrees to reimburse such other contractor for all such damages, and indemnify and hold the City harmless from all such claims.

Art. 41. CONTRACTOR'S CLAIM FOR DAMAGE. If the Contractor shall claim compensation for any alleged damage sustained by reason of acts of the City or its agents, he shall, within five (5) days after the sustaining of such alleged damage, make a written statement to the Engineer of the nature of the damages sustained. On or before the fifteenth day of the month succeeding that in which any such damage shall have been sustained, the Contractor shall file with the Engineer an itemized statement of the details and amount of such alleged damage, and unless such statement shall be made as thus required, his claim for compensation shall be disallowed and invalidated, and he shall not be entitled to payment on account of any such alleged damage.

In addition to the foregoing statements, the Contractor shall, upon notice from the City, produce for examination by the representatives of the City all his books of accounts, bills, invoices, pay-rolls, subcontracts, time books, daily reports, bank deposit books, bank statements, check books, and cancelled checks, showing all of his acts and transactions in connection with or relating to or arising by reason of this Contract, and submit himself and persons in his employ for examination under oath by any person designated by the City to investigate claims made against the City. Unless the aforesaid statements shall be made and filed within the time aforesaid and the aforesaid records submitted for examination and the Contractor and his employees submit themselves for examination as aforesaid, the City shall be released from all claims arising under, relating to or by reason of this Contract, except for the moneys certified by the City to be due under the provisions of this Contract.

Art. 42. PROTECTION OF WORK AND PROPERTY. The Contractor shall continuously and adequately protect the work to be performed under this Contract against damage and shall protect and safeguard all materials furnished by him whether or not incorporated in the work, against damage from any cause, and shall make good any such damage unless it be due directly to errors in the Contract Documents or be caused by agents or employees of the City. To the extent required by law, by public authority, or by local conditions, the Contractor shall adequately protect adjacent property and shall provide and maintain all passageways, guard fences, lights, and other facilities for protection. The Contractor shall shore up, brace, underpin, secure, and protect as may be necessary all foundations and other parts of existing structures adjacent to, adjoining, and in the vicinity of the site, which may be in any way affected by the excavations or other operations connected with the construction of the project.

Art. 43. ACCIDENTS. The Contractor, during the performance of work, shall take all necessary precautions and place proper guards for the prevention of accidents, shall put up and keep suitable and sufficient lights and other signals, and shall indemnify and save harmless the City, its officers, and agents, from all damages and costs to which they may be put by reason of injury to the person or property or another resulting from his negligence or carelessness in the performance of the work, or in safeguarding the same, or from any improper materials, implements, or appliances used in its construction, or on account of any act or omission of his Contractor or his

agents. The whole or so much of the moneys due under and by virtue of his Contract as shall be considered necessary by the City, may, at its option, be retained by the City until all suits or claims for damages as aforesaid shall have been settled and evidence to that effect furnished to the satisfaction of the City.

Machinery, equipment and all hazards shall be guarded in accordance with the safety provisions of the Manual of Accident Prevention in Construction published by the Associated General Contractors of America, to the extent that such provisions are not in contravention of applicable law.

Art. 44. LIABILITY OF CONTRACTOR. Subject to the provisions of Connecticut General Statutes Section 52-572k, the Contractor hereunder shall be liable for all injuries to persons or damages to property, and neither the approval of the Architect or Engineer of the methods of doing the work nor the failure of the Architect or Engineer to call attention to improper or inadequate methods or to require a change in methods, nor the neglect on the Architect or Engineer to direct the Contractor to take any particular precautions or to refrain from doing any particular thing shall excuse the Contractor.

Art. 45. RIGHT OF PROPERTY IN MATERIALS. Nothing in this Contract shall be considered as vesting in the Contractor any right of property in materials used, after they shall have been attached or affixed to the work or the soil, nor in materials which have been accepted for periodic payment at the site, as provided in Art. 24, by all such materials shall upon being so attached or affixed, or so accepted, become the property of the City.

Art. 46. LAWS, ORDINANCES, AND REGULATIONS. The Contractor will be required to comply with all federal, state, county, and municipal laws, ordinances and regulations in any manner affecting those persons engaged or employed in the work, or the materials used in the work, or in any way affecting the conduct of the work, either with respect to hours or labor or otherwise, and of all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same. If any discrepancy or inconsistency is discovered in the drawings, specifications or Contract for this work in relation to any such law, ordinance, regulation order or decree he shall forthwith report the same to the Engineer in writing. He shall at all times himself observe and comply with and shall cause all his agents and employees to observe and comply with all such laws, ordinances, regulations, orders and decrees; and shall protect and

indemnify the City and its officers and agents against any claim or liability arising from or based on the violations of any such law, ordinance, regulation, order or decree, whether by himself or his employees.

Art. 47. PAYMENT OF EMPLOYEES. The Contractor shall comply with the regulations of the Secretary of Labor made pursuant to the Anti-Kickback Act of June 30, 1940, 40 U.S.C. 276C, and any amendments or modifications thereto. The Contractor shall cause appropriate provisions to be inserted in any subcontracts for the work which he may let to insure compliance with said Anti-Kickback Regulations by all subcontractors subject thereto, and the Contractor shall be responsible for the submission of affidavits required of subcontractors by said Anti-Kickback Act except as the Secretary of Labor may specifically provide for reasonable limitations, variations, and exemptions from the requirements thereof.

The Contractor agrees that, in case of underpayment of wages to any worker on the project under this Contract by the Contractor or any subcontractor, the City shall withhold from the Contractor out of payments due, an amount sufficient to pay such worker the difference between the wages required to be paid under this Contract and the wages actually paid such worker for the total number of hours worked and that the City may disburse such amount so withheld by it for and on account of the Contractor to the employee to whom such amount is due. The Contractor further agrees that the amount to be withheld pursuant to this paragraph may be in addition to the percentages to be retained by the City pursuant to other provisions of this Contract.

In the event that the total cost of all work to be performed by all contractors and subcontractors in connection with new construction of any public works project exceeds \$400,000 or where the total cost of all work performed by all contractors, and subcontractors in connection with any remodeling, refinishing, refurbishing, rehabilitation, alteration, or repair of any public works project exceeds \$100,000 the following shall apply:

The wages paid on an hourly basis to any mechanic, laborer or workman employed upon the work herein contracted to be done and the amount of payment or contribution paid or payable on behalf of each such employee to any employee welfare fund, and defined in subsection (h) of Section 31-53 of the Connecticut General Statutes, shall be at a rate equal to the rate customary or prevailing for the same work in the same trade or occupation in the City of Danbury. Any

contractor who is not obligated by agreement to make payment or contribution on behalf of such employees to any such employee welfare fund shall pay to each employee as part of his wages the amount of payment or contribution for his classification on each payday.

In the event that the foregoing provisions do not apply to work to be performed hereunder, wages paid to any mechanic, laborer or workman employed upon the work herein contracted to be done shall nonetheless be at a rate equal to the wages customary or prevailing for the same work in the same trade or occupation prevailing in the City of Danbury, and based upon the wage schedule and rates therein set by the U.S. Department of Labor for the Danbury area. The rates so established shall at all times be considered as the minimum rate for the classification for which it was established.

Upon the award of any contract to which the aforementioned prevailing wage rate requirements apply the contractor to whom such contract is awarded shall certify, under oath, to the Labor Commissioner the pay scale to be used by such contractor and any of his subcontractors for work to be performed under such contract.

Art. 48. LOCAL PREFERENCE. The contractor agrees to comply with the provisions of Danbury Municipal Charter Section 8-7 as well as provisions of Connecticut General Statutes Sections 7-112 and 31-52; and where applicable, Sections 31-53 and 31-54, all as amended. In particular, the contractor agrees that in the employment of mechanics, laborers and workmen in the construction, remodeling or repairing of any public work, preference shall be given to citizens of the United States who are, and continuously for at least three (3) months prior to the date hereof have been, residents of the Danbury Labor Market Area as established by the State Labor Commissioner, and if no such qualified persons are available, then preference shall be given to citizens of the United States who are, and continuously for at least three (3) months prior to the date hereof have been residents of the labor market area, as established by the Labor Commissioner, in which such work is to be done, and if no such qualified persons are available, then to citizens who have continuously resided in Fairfield County for at least three (3) months prior to the date hereof, and then to citizens of the State who have continuously resided in the State at least three (3) months prior to the date hereof.

Art. 49. PAYROLLS, REPORTS, AND RECORDS. The Contractor and each of his subcontractors shall submit to the City such schedules of quantities and costs, progress

schedules, payrolls, reports, estimates, records, and other data as the City may request concerning work performed or to be performed under this Contract.

The Contractor and each of his subcontractors shall prepare his payrolls on forms prescribed and in accordance with instructions to be furnished by the City. Within 7 days after the regular payment date of the payroll, the Contractor shall deliver to the City a certified legible copy or copies of each such payroll. Each such payroll shall be sworn to in accordance with the Federal Regulations made pursuant to the Anti-Kickback Regulations. The Contractor and each of his subcontractors shall preserve weekly payroll records for a period of 3 years from date of completion of the Contract.

Such copies of payrolls shall be accompanied by substantial proof that all bills for services rendered and materials supplies have been duly paid and by such other data as the City may require.

The Contractor shall not carry on his payroll any person not employed by him. The Contractor shall not carry on his payroll employees of a subcontractor, but such employees must be carried only on the payrolls of the employing subcontractor.

The Contractor shall furnish, for the U.S. Department of Labor, Bureau of Labor Statistics, such labor reports as may be required.

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The Contractor and any subcontractor shall furnish proof with the weekly certified payroll form for the first week each employee starts work on the project that all persons performing the work of a mechanic, laborer or worker pursuant to classifications of labor under section 31-53 on a public works project, pursuant to such contract, have completed a course of at least ten (10) hours duration in construction safety and health approved by the federal Occupational Safety and Health Administration or, in the case of telecommunications employees, have completed at least ten (10) hours of training in accordance with 29 CFR 1910.268.

Any employee required to complete a construction safety and health course required under subsection (a) of CGS 31-53b who has not completed the course shall be subject to removal from the worksite if the employee does not provide documentation of having completed such course by the fifteenth day after the date the employee is found to be in



noncompliance. The Labor Commissioner or said commissioner's designee shall enforce this section.

Art. 50. INSURANCE. The Contractor shall not commence work under the Contract until he has obtained all insurance required under this article and such insurance has been approved by the City, nor shall the Contractor allow any subcontractor to commence work on his subcontract until all similar insurance required of the subcontractor has been so obtained and approved. Certificates of such insurance shall be filed with the City and shall be subject to the approval of the City for adequacy of protection before the execution of the Contract.

All policies relating to this Contract shall be so written that THE CITY SHALL BE NOTIFIED OF CANCELLATION OR CHANGE AT LEAST THIRTY(30) DAYS PRIOR to the effective date of such cancellation or change.

Certificates from the insurance carrier shall be filed in triplicate with the City and shall state the limits of liability and the expiration date for each policy and type of coverage. THE CITY OF DANBURY, ARCADIS US, INC. and the STATE OF CONNECTICUT SHALL BE NAMED AS AN ADDITIONAL INSURED. Renewal certificates covering the renewal of all policies expiring during the life of the Contract shall be filed with the City not less than ten (10) days before the expiration of such policies.

A. Comprehensive General Liability Insurance.

The Contractor shall take out and maintain during the life of this Contract such Comprehensive General Liability Insurance (which shall include explosion and collapse and underground hazards if so requested by the City), as will protect him, the City, and any subcontractor performing work covered by this Contract, from claims for damages for personal injury, including accidental or wrongful death, as well as claims for property damages, which may arise from operations under this Contract whether such operations be by himself or by any subcontractor or by anyone directly or indirectly employed by either of them and the amounts of such insurance shall be in the following minimum limits:

Bodily Injury Liability	
and	- \$1,000,000 (combined)
Property Damage Liability	- each occurrence

The Contractor agrees that in the event that one or more claims are paid under policies containing an aggregate

coverage limit it shall immediately notify the City thereof and at the same time shall seek either to reinstate the limits of said policy or policies or alternatively to seek to obtain a new policy providing for full coverage in accordance with the limits established within. Said replacement coverage shall be obtained within twenty-four (24) hours and the City shall be notified thereof.

B. Comprehensive Auto Liability Insurance.

The Contractor shall take out and maintain during the life of this Contract Comprehensive Auto Liability Insurance which shall cover the operation of all Motor Vehicles owned by the Contractor, or used by the Contractor in the prosecution of the work under the Contract and the amounts of such insurance shall be in the following minimum limits:

Bodily Injury Liability	
and	- \$1,000,000 (combined)
Property Damage Liability	- each occurrence

C. Excess Liability Insurance.

The Excess Liability Policy coverage is in addition to the limits expressed in A. and B. above:

Bodily Injury, Property	- 5,000,000 (combined)
Damage and Auto	- each occurrence

D. Worker's Compensation Insurance and Employer's Liability.

The Contractor shall take out and maintain during the life of this Contract, Workers' Compensation Insurance for all of his employees, employed at the site and in case any work is sublet, the Contractor shall require the subcontractor similarly to provide Workers' Compensation Insurance for all employees of the latter unless such employees are covered by the protection afforded by the Contractor.

- 1) Workers' Compensation and Employer's Liability - Statutory Limits.

E. Pollution Liability Insurance.

This insurance shall protect the insureds against claims arising out of pollution and excluded from the commercial general liability and comprehensive automobile liability policies. This insurance shall be coordinated with the

commercial general liability policy and provide bodily injury and property damage coverage similar to the limits specified for the commercial general liability policy. Coverage shall include contractual liability.

Pollution Liability - \$3,000,000 (combined)  
- \$1,000,000 each occurrence

Art. 51. CHATTEL MORTGAGES. No materials, equipment or supplies for the work shall be purchased by the Contractor or by any subcontractor subject to any chattel mortgage or under a conditional sale or other agreement by which an interest is retained by the seller. The Contractor warrants that he has clear title to all materials, equipment, and supplies used by him in the work.

Art. 52. PATENT RIGHTS. As part of his obligations hereunder and without any additional compensation, the Contractor will pay for all patent fees or royalties, required in respect to the work or any part thereof on any material or equipment installed or process used and will fully indemnify the City for any loss on account of infringement of any patent rights.

Art. 53. FEDERAL TRANSPORTATION TAXES. The Contractor will be exempt from payment of Federal Transportation Taxes in accordance with the provisions of Revenue Ruling 55-162 which exempts a state or political subdivision thereof from the Federal Transportation Tax on construction materials consigned to construction projects. Therefore a Contractor covered by these specifications is authorized to consign to the City of Danbury in care of the Contractor any materials for shipment to the site which will be incorporated in the work.

The exemption applies only to construction materials and does not cover any transportation tax on fuel, lubricants, spare parts, and items of construction equipment belonging to the Contractor which will not be incorporated in the project. The Contractor shall pay all transportation costs and demurrage which may be incurred in connection with the furnishing of all materials to the project.

The consignment authority as granted by the City of Danbury is to the Contractor. Should the Contractor employ subcontractors and others who furnish construction materials which are to be incorporated into the work, it will be necessary for the Contractor to authorize the consignment of such materials to the City in care of the Contractor, for

shipment to the site. The Contractor shall be held responsible for the extension of this consignment authority.

Art. 54. UNLAWFUL PROVISIONS. If this Contract contains any unlawful provisions not an essential part of the general structure of the Contract and which shall not appear to have been a controlling or material inducement in the making thereof, the same shall be deemed of no effect and shall be deemed stricken from the Contract without affecting the blinding force of the remainder. It is the intent and understanding of the parties to this contract and it is hereby, so stipulated, that each and every provision of law required to be inserted in this Contract is deemed to be inserted herein and if any such provisions is not inserted or is not inserted in correct form, then this Contract shall be deemed amended by such insertion.

Art. 55. DAMAGES TO BE PAID THE CITY. The Contractor shall pay to the City:

(a) all expenses, losses, and damages, as determined by the Engineer, incurred in consequence of any defect, omission, or mistake of the Contractor or his employees, or the making good thereof,

(b) one hundred dollars (\$100.00) as liquidated damages for each proven instance of flagrant disregard of the orders of the Engineer,

(c) all costs of engineering field work and inspection between the completion date specified and the actual completion of the Contract, regardless of whether or not an extension of time may be approved.

The City shall have the right to deduct the amount of any such damage from any moneys due or to become due to the Contractor under this Contract; provided, however, that the City shall have the right in its discretion to extend the time for the completion of the work beyond the time stated in this Contract. If the time for the completion of the work as aforesaid shall be extended by the City, then and in such case the City shall be fully authorized and empowered to deduct from any moneys due or to become due the Contractor under the provisions of this Contract, the amount of any damages determined as herein before stipulated for each day that the Contractor shall default for the completion of the work, beyond the date to which the time for said completion shall have been extended by the City, as provided in Art. 15 and Art. 18.

In the computation of the time actually taken to complete the whole work, exclusive of maintenance, the length of time (expressed in days or parts of days) during which the work or any part thereof has been delayed in consequence of any act or omission of the City (which shall be determined by the City, who shall certify to the same in writing, and whose determination and certificate thereof shall be binding and conclusive upon the Contractor) or has been delayed due to circumstances arising from any other cause completely beyond the control of the Contractor, shall be allowed to the Contractor and excluded from said computation.

The Contractor shall notify the City in writing of any delays beyond his control, and request an extension of time to cover such delays, unless such notice is given, suffering the Contractor to continue and finish the work, or any part of it, after the time fixed for its completion, or after the date to which the time for completion may have been extended, shall in nowise operate as a waiver on the part of the City or any of its rights under this Contract.

Art. 56. RIGHT OF CITY TO DECLARE CONTRACTOR IN DEFAULT. The City has the right to declare the Contractor in default:

(a) if the Contractor shall fail, within the time required, to begin the work to be done under this Contract, or

(b) if the work to be done under this Contract shall be abandoned, or

(c) if the Contractor shall be adjudged bankrupt or make an assignment for the benefit of creditors, or

(d) if a receiver or liquidator shall be appointed for the Contractor or for any of his property and shall not be dismissed within twenty (20) days after such appointment, or the proceedings in connection therewith shall not be dismissed within twenty (20) days after such appointment, or the proceedings in connection therewith shall not be stayed on appeal within the said twenty (20) days, or

(e) if the Contractor shall fail to or refuse to regard laws, ordinances, and regulations, and such orders as may from time to time be given by the City or the Engineer with respect to the work, or

(f) if the Contractor shall refuse or fail, after notice from the Engineer, to supply enough properly skilled

workmen or proper materials, or

(g) if the Contractor shall violate any of the provisions or covenants of this Contract or shall not perform the same in good faith in accordance with the terms thereof, or

(h) if the Contractor shall refuse or fail to prosecute the work or any part thereof with such diligence as will insure its completion within the period specified (or any duly authorized extension thereof) or shall fail to complete the work within said period, or

(i) if the Contractor shall fail to make prompt payment to persons supplying labor or materials for the work, or

(j) if the Contractor shall assign or sublet the work otherwise than as specified, or

(k) if the Engineer should be of the opinion and shall certify in writing to the City that the work or any part thereof is unnecessarily or unreasonable delayed, or that the Contractor is not complying with his orders, or is not executing the Contract in good faith, or that suitable and sufficient workmen, material, plant, power, tools, supplies, or other means of carrying on the work are not provided to carry out all requirements of the Contract.

Art. 57. UNFINISHED WORK COMPLETED BY THE CITY. Upon such declaration of default under the provisions of Art. 56, the City shall, by written notice, order the Contractor not to begin, or not to resume, or to discontinue all work under this Contract or any part of such work, and thereupon the Contractor shall not begin, or shall not resume, or shall discontinue all work or such part thereof, and the City shall thereupon have the power, in the manner prescribed by law, to contract for the completion of the work or such part thereof, or to place such and so many persons as it may deem advisable by contract or otherwise to work at and to complete the work or part thereof, or so much of the work or part thereof, as the City may direct or may place under contract, and take possession of and use any or all plant, tools, appliances, equipment, supplies, property, and materials as the City may find upon the site, and procure or cause to be procured, by contract or otherwise, all other plant, tools, appliances, equipment, supplies, property, and materials for the completion of the same, and charge the whole expense of the completion of the work, or part thereof, to the Contractor.

Art. 58. PAYMENT TO CONTRACTOR FOR UNFINISHED WORK COMPLETED BY THE CITY. The expense so charged, as prescribed in Art. 57, and also liquidated damages for delay in the completion of the work, if any, as provided, shall be deducted and paid by the City out of such moneys as may be then due or may at any time thereafter become due under and by virtue of the Contract or any part thereof. In case such expense and liquidated damages if any, shall exceed the sum which would have been payable under this Contract, if the same had been completed by the Contractor, he shall and will pay the amount of such excess to the City; and in case such expense and liquidated damage, if any, shall be less than the sum which would be payable to the Contractor, if the Contractor had completed the Contract, he shall be entitled to the difference, subject to all the other terms, covenants, and conditions of this Contract.

Art. 59. PARTIAL WORK COMPLETED BY CONTRACTOR. When any particular part of the work included in this Contract is being carried on by the City, by a contract or otherwise, under the provisions of this Contract, the Contractor agrees to continue the remainder of the work in conformity with the terms of this Contract and in such manner as in nowise to hinder or interfere with the persons or workmen employed, as provided in Art. 57, by the City, by contract or otherwise, to do any part of the work, or to complete the same under the provisions of this Contract.

Art. 60. ABANDONMENT OF WORK. Upon the Contractor abandoning the work under this Contract, the City shall have the right to take immediate possession of the plant, materials, and equipment upon the work as prescribed by law, for the purpose specified herein before, and no such plant, materials or equipment shall be removed so long as the same may be wanted for the work.

Liquidated damages for delay in completion of the work shall be computed for the time elapsing from the date when the Contractor should have completed the work under the provisions of this Contract, and the date of completion of the work under the provisions of Art. 57, as certified by the City.

Art. 61. CERTIFICATE OF COST OF WORK COMPLETED BY CITY. In the event of the City undertaking, by contract or otherwise, to perform the work or any part thereof as described in Art. 57 and Art. 60, the certificate of the Engineer, as to the amount of work done, the cost and amount of excess cost, if any, of performing or completing the work

called for by this Contract, and as to the amount of liquidated damages hereunder, shall be binding and conclusive upon the Contractor, his sureties, successors, assigns, liners, and to all claimants of any part of the moneys payable hereunder.

Art. 62. CONTRACTOR'S RIGHT TO STOP WORK OR TERMINATE CONTRACT. If the work on the Contract as a whole shall be stopped by order of the Court or any other public authority, for a period of 3 months without act or fault of the Contractor or of any of his agents, servants, employees, or subcontractors, the Contractor may, upon 7 days' notice to the City discontinue his performance of the work and/or terminate the Contract, in which event the liability of the City to the Contractor shall be determined as provided in the articles immediately preceding, except that the Contractor shall not be obligated to pay to the City any excess of the expense of completing the work over the unpaid balance of the compensation to be paid the Contractor hereunder. The Contractor shall be reimbursed for expenses incurred during delays for which he is not responsible, pursuant to the provisions of Art. 41.

Art. 63. POWER OF CONTRACTOR TO ACT IN AN EMERGENCY. In an emergency threatening injury to persons or damage to the work or to any adjoining property, the Contractor may act, to prevent such threatened injury or damage, and shall so act if instructed or authorized by the Engineer. The compensation due the Contractor by reason of any such action shall be determined by the Engineer, in accordance with the provisions of Art. 38.

Art. 64. CITY MAY REQUIRE SUBSTITUTE BOND. If at anytime the City shall be or become dissatisfied with any surety or sureties then upon the Performance and Payment Bond, or if for any other reason such bond shall be deemed by the City to be inadequate security to the City, the Contractor shall, within five (5) days after notice from the City so to do, substitute an acceptable bond in such form and sum and signed by such other sureties as may be satisfactory to the City. The premium on such bond shall be at the expense of the Contractor. No further payments shall be deemed due or shall be made until the new sureties shall have qualified.

Art. 65. EMPLOYEE DISCRIMINATION AND AFFIRMATIVE ACTION The Contractor agrees and warrants that in the performance of this contract the Contractor will not discriminate or permit discrimination against any person or



group of persons on the grounds of race, color, religion, national origin, sex, or physical disability, including, but not limited to, blindness, unless it is shown by such Contractor that such disability prevents performance of the work involved, and further agrees to provide the Commission on Human Rights and Opportunities with such information requested by the Commission concerning the employment practices and procedures of the Contractor as related to the provisions of this section.

The Contractor further agrees and warrants that in the performance of this contract the Contractor will comply with the following:

1. Executive Order No. 3 of Governor Thomas J. Meskill promulgated June 16, 1971.

2. Executive Order No. 17 of Governor Thomas J. Meskill promulgated February 15, 1973.

3. Executive Order No. 16 of Governor John J. Rowland promulgated August 4, 1999.

4. Executive Order No. 7C of Governor M. Jodi Rell promulgated July 13, 2006.

In addition, the Contractor certifies that the Contractor is an affirmative action employer meeting both in policy and practice the principles of the Affirmative Action Program.

Art. 66. SUCCESSORS AND ASSIGNS, ASSIGNMENT. This agreement and all of the covenants hereof shall inure to the benefit of and be binding upon the City and the Contractor respectively and their successors, assigns and legal representatives. Neither the City nor the Contractor shall have the right to assign, transfer, sublet or subcontract its interest or obligations hereunder without the written consent of the other part.

Art. 67. LEGAL ADDRESS OF CONTRACTOR. Both the address given in the bid or proposal submitted by the Contractor and the Contractor's Office at or near the site of the work are hereby designated as places to either of which letters and other communications to the Engineer shall be certified, mailed or delivered. The delivering at the above-named place, or depositing in a postpaid wrapper directed to the above-named place, in the post office box regularly maintained by the Post Office Department, of any notice, letter, or other communication to the Contractor shall be deemed sufficient

service thereof upon the Contractor, and the date of said service shall be the date of such delivery or mailing. The first named address may be changed at any time by an instrument in writing, executed and acknowledged by the Contractor and delivered to the City. Nothing herein contained shall be deemed to preclude or render inoperative the service of any notice, letter or other communication upon the Contractor personally.

Art. 68. ALL LEGAL PROVISIONS INCLUDED. It is the intention and the agreement of the parties hereto that all legal provisions of law required to be inserted herein shall be and are inserted herein. However, if by mistake or otherwise, some such provisions are not herein inserted or are not inserted in proper form, then on the application of either party, the agreement shall be amended so as to strictly comply with the law and without prejudice to the rights of either party hereunder.

Art. 69 PREVAILING SALARIES OR WAGES

a. The Contractor shall pay to all architects, technical engineers, draftsmen, and technicians employed in connection with this Contract not less than the salaries or wages prevailing in the locality of the project, as determined or adopted ( subsequent to a determination under applicable State or local law ) by HUD.

b. The Contractor shall pay to all laborers and mechanics employed in the development of the project not less than the wages prevailing in the locality of the project as predetermined by the Secretary of Labor of the United States pursuant to the Davis-Bacon Act (Title 40, U.S.C., Sec. 276a-276a-5).

c. All laborers and mechanics employed in the development of the project shall be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by the regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3)), the full amounts due at the time of payment computed at wage rates not less than those contained in the wage determination decision of the Secretary of Labor, the substance of which is included in the Appendix , regardless of any contractual relationship which may be alleged to exist between the Contractor or subcontractor and such laborers and mechanics; and the wage determination decision and the Department of Labor Wage Rate Information Poster shall be posted by the Contractor at the site of the work in a

prominent place where it can be easily seen by the workers. For the purpose of this clause, contributions made or costs reasonably anticipated under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics subject to the provisions of 29 CFR 5.5 (a)(1)(iv). Also for the purpose of this clause, regular contributions made or costs incurred for more than a weekly period under plans, funds, or programs, but covering the particular weekly period are deemed to be constructively made or incurred during such weekly period.

d. If the Contractor or any of his subcontractors finds it necessary or desirable to exceed the prevailing salary or wage rates specified in his Contract, any expense incurred by the Contractor or subcontractors because of the payment of salaries or wages in excess of such amounts shall not be cause for any increase in the amount payable under his Contract.

e. The CITY will not make any payment under this Contract unless and until the CITY has received a certification from the Contractor that such Contractor and each of his subcontractors have made payment to each class of employees in compliance with the applicable provisions of subparagraphs a, b, and c of this paragraph.

f. (1)(a) Apprentices will be permitted to work as such only when they are registered, individually, under a bona fide apprenticeship program registered with a State apprenticeship agency which is recognized by the Bureau of Apprenticeship and Training, U.S. Department of Labor; or, if no such recognized agency exists in a State, under a program registered with the Bureau of Apprenticeship and Training, U.S. Department of Labor. The allowable ratio of apprentices to journeymen in any craft classification shall not be greater than the ratio permitted to the Contractor as to his entire work force under the registered program. Any employee listed on a payroll at an apprentice wage rate, who is not a trainee as defined in subsection (b) immediately following or is not registered as above, shall be paid the wage rate determined by the Secretary of Labor for the classification of work he actually performed. The Contractor or subcontractor will be required to furnish to the CITY written evidence of the registration of his program and apprentices as well as of the appropriate ratios and wage rates for the area of construction prior to using any apprentices on the contract work.

(b) Trainees will be permitted to work as such when they are bona fide trainees employed pursuant to a program approved by the U.S. Department of Labor, Manpower

Administration, Bureau of Apprenticeship and Training, and where subsection (d) immediately following is applicable, in accordance with the provisions of Section 1g(2).

(c) On contracts in excess of \$10,000 the employment of all laborers and mechanics, including apprentices and trainees, as defined in 29 CFR Part 5.2(c) shall also be subject to the provisions of Section 1g(2). Apprentices and trainees shall be hired in accordance with the provisions of Section 1g(2).

(2) The Contractor agrees that:

(a) He will make a diligent effort to hire for the performance of the contract a number of apprentices or trainees, or both, in each occupation, which bears to the average number of the journeymen in that occupation to be employed in the performance of the contract the applicable ratio as determined by the Secretary of Labor;

(b) He will assure that 25 percent of such apprentices or trainees in such occupation are in their first year of training where feasible. Feasibility here involves a consideration of (a) the availability of training opportunities for first year apprentices, (b) the hazardous nature of the work for beginning workers, (c) excessive unemployment of apprentices in their second and subsequent years of training;

(c) During the performance of the contract he will, to the greatest extent possible, employ the number of apprentices or trainees necessary to meet currently the requirements of (a) and (b) immediately preceding;

(d) He will maintain records of employment by trade of the number of apprentices and trainees, apprentices and trainees by first year of training, and of journeymen, and the wages paid and hours of work of such apprentices, trainees and journeymen; and he will make these records available for inspection upon request of the Department of Labor and the Government;

(e) If he claims compliance based on the criterion stated in 29CFR 5a.4(b), he will maintain records of employment, as described in the immediately preceding paragraph, on non-Federal and nonfederal assisted construction work done during the performance of the contract in the same labor market area; and he will make these records available for inspection upon request of the Department of Labor and the Government;

(f) He will supply one copy of the written notices required in accordance with 29 CFR 5a.4(c) at the request of Government compliance officers, and will supply at 3-month intervals during the performance of the contract and after completion of contract performance a statement describing steps taken toward making a diligent effort and containing a breakdown by craft, of hours worked and wages paid for first year apprentices and trainees, other apprentices and trainees, and journeymen. One copy of the statement will be sent to the Government and one to the Secretary of Labor.

g. No laborer or mechanic employed in the development of the project shall be discharged or in any other manner discriminated against because such laborer or mechanic has filed any complaint or instituted or caused to be instituted any proceedings or has testified or is about to testify in any proceedings under or relating to the labor standards incorporated in the Contract.

h. The CITY will require that any class of laborers or mechanics (including apprentices and trainees) which is not listed in the wage determination and which is to be employed under the Contract shall be classified or reclassified conformably to the wage determination. In the event the Contractor, the CITY, and HUD cannot agree on the proper classification or reclassification of a particular class of laborers and mechanics (including apprentices and trainees) to be used, the question will be referred by HUD to the Secretary of Labor for final determination.

i. The CITY will require, whenever the minimum wage rate prescribed in the Contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly wage rate and the Contractor is obligated to pay a cash equivalent of such a fringe benefit, an hourly cash equivalent thereof is to be established. In the event the Contractor, the CITY, and HUD cannot agree upon a cash equivalent of the fringe benefit, the question will be referred by HUD to the Secretary of Labor for final determination.

j. The Contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act or any bona fide fringe benefits not expressly listed in section 1(b)(2) of the Davis-Bacon Act or otherwise not listed in the wage determination decision of the Secretary of Labor which is included in this Contract, only when the Secretary of Labor

has found, upon the written request of the Contractor that the applicable standards of the Davis-Bacon Act have been met. Whenever practicable, the Contractor should request the Secretary of Labor to make such findings before the making of the Contract. In the event of unfounded plans and programs, the Secretary of Labor may require the Contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

Art. 70. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT-OVERTIME COMPENSATION. As used in this paragraph, the terms "laborers" and "mechanics" include watchmen and guards.

a. Overtime requirements- No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any laborer or mechanic in any workweek in which he is employed on such work to work in excess of eight hours in any calendar day or in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times his basic rates of pay for all hours worked in excess of eight hours in any calendar day or in excess of forty hours in any such workweek, as the case may be.

b. Violation, liability for unpaid wages, liquidated damages - In event of any violation of the clause set forth in subparagraph a, the Contractor and any subcontractor responsible therefore shall be liable to any affected employee for his unpaid wages. In addition, such Contractor and subcontractor shall be liable to the United States for liquidated damages. Such liquidated damages shall be computed, with respect to each individual laborer or mechanic employed in violation of the clause set forth in subparagraph a, in the sum of \$10 for each calendar day on which such employee was required or permitted to work in excess of eight hours or in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in subparagraph a.

c. Withholding for liquidated damages- The CITY may withhold, or cause to be withheld, from any moneys payable on account of work performed by the Contractor or subcontractor, such sums as may administratively be determined to be necessary to satisfy any liabilities of such Contractor or subcontractor for liquidated damages as provided in the clause set forth in subparagraph b.

d. Subcontracts - The Contractor shall insert in any subcontracts the clauses set forth in subparagraphs (a),

(b), and (c) of this paragraph and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts which they may enter into, together with a clause requiring this insertion in any further subcontracts that may in turn be made.

e. Compliance with Section 107(a) of the Act-The Contractor shall comply with Section 107(a) of the Contract Work Hours and Safety Standards Act (Title 40 U.S.C., Sec. 333 (a)) and all regulations, rulings and interpretations of the Secretary of Labor issued thereunder.

Art. 71. COMPLIANCE WITH COPELAND REGULATIONS (CFR PART 3). The Contractor shall comply with the Copeland Regulations (29 CFR Part 3) of the Secretary of Labor which are herein incorporated by reference.

Art 72. SUBMITTAL OF PAYROLLS AND RELATED REPORTS.

b. Payrolls and basic records relating thereto shall be maintained during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics employed in the development of the project. Such records shall contain the name and address of each such employee, his correct classification, rates of pay (including rates of contributions or costs anticipated of the types described in section 1 (b) (2) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made, and the actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5 (a) (1) (iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1 (b) (2) (B) of the Davis-Bacon Act, the Contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan of the program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits.

b. The Contractor shall submit weekly to the CITY such copies and summaries (on forms prescribed by HUD and furnished by the CITY) of all his payrolls and those of each of his subcontractors, as the CITY or HUD may require. Each payroll and summary shall be accompanied by a statement signed by the employer or his agent indicating that the payrolls are correct and complete, that the wage rates contained therein are not less than those determined by the Secretary of Labor,

and that the classification set forth for each laborer or mechanic conform with the work he performed. A submission of a "Weekly Statement of Compliance" which is required under this Contract and the Copeland Regulations of the Secretary of Labor (29 CFR, Part 3) and the filing with the initial payroll or any subsequent payroll of a copy of any findings by the Secretary of Labor under 29 CFR 5.5 (a) (1) (iv) shall satisfy this requirement. The Contractor shall make the records required under the labor standards clauses of the Contract available for inspection by authorized representatives of the CITY, HUD and the Department of Labor, and will permit such representatives to interview employees during working hours on the job.

c. The Contractor shall also furnish to the CITY any other information or certifications relating to employees in such forms as the CITY may request.

Art. 73. DISPUTES CONCERNING WAGE RATES AND CLASSIFICATION OF LABOR.

a. All disputes concerning prevailing wage rates or classifications arising under this Contract involving (1) significant sums of money, (2) large groups of employees, or (3) novel or unusual situations shall be promptly reported by the CITY to HUD for decision or, at the option of HUD, referral to the Secretary of Labor. The decision of HUD or the Secretary of Labor, as the case may be, shall be final.

b. All questions arising under this Contract relating to the application or interpretation of the Copeland Act or Sec. 16 (2) of the United States Housing Act of 1937 shall be referred to the Secretary of Labor for ruling or interpretation, and such ruling or interpretation shall be final.

Art. 74. WAGE CLAIMS AND ADJUSTMENTS. In cases of underpayment of salaries or wages to any architect, technical engineers, draftsmen, technicians, laborers, or mechanics ( including apprentices and trainees ) by the Contractor or any of his subcontractors, the CITY may withhold from said Contractor out of payments due, an amount sufficient to pay persons employed on the work covered by the Contract the difference between the salaries or wages required to be paid under the Contract and the salaries or wages actually paid such employees for the total number of hours worked, and the amounts withheld may be disbursed by the CITY for and on account of the Contractor or the subcontractor to the respective employee to whom they are due.



Art. 75. EQUAL EMPLOYMENT OPPORTUNITY. During the performance of this contract, the Contractor agrees as follows:

a. The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, or national origin. Such action shall include but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this Equal Opportunity clause.

b. The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color religion, sex or national origin.

c. The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the labor union or workers' representative of the Contractor's commitments under this Equal Opportunity clause and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

d. The Contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

e. The Contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary of Labor or pursuant thereto, and will permit access to his books, records and accounts by HUD and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

f. In the event of the Contractor's noncompliance with the Equal Opportunity clause of this Contract or with

any of such rules, regulations, or orders, this Contract may be cancelled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

g. The Contractor will include the statement preceding subparagraph (a) and the provisions of subparagraph (a) through (g) in every subcontract or purchase order unless exempted by rules, regulations or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as HUD may direct as a means of enforcing such provisions including sanctions for noncompliance; PROVIDED, HOWEVER, That in the event the Contractor becomes involved in or is threatened with litigation with a subcontractor or vendor as a result of such direction by HUD, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

Art. 76. NON-DISCRIMINATION AND AFFIRMATIVE ACTION PROVISIONS. (A) (1) The

Contractor agrees and warrants that in the performance of the Contract such Contractor 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, sexual orientation, intellectual disability, mental disability or physical disability, including, but not limited to, blindness, unless it is shown by such Contractor 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. The Contractor further agrees to take affirmative action to insure that applicants with job-related qualifications are employed and that employees are treated when employed without regard to of race, color, religious creed, age, marital status, national origin, ancestry, sex, gender identity or expression, intellectual disability, mental disability or physical disability, including, but not limited to, blindness, unless it is shown by such Contractor that such

disability prevents performance of the work involved; (2) the Contractor agrees, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, to state that it is an "affirmative action-equal opportunity employer" in accordance with regulations adopted by the commission; (3) the Contractor agrees to provide each labor union or representative of workers with which such Contractor has a collective bargaining agreement or other contract or understanding and each vendor with which such Contractor has a contract or understanding, a notice to be provided by the commission advising the labor union or workers' representative of the Contractor's commitments under this section, and to post copies of the notice in conspicuous places available to employees and applicants for employment; (4) the Contractor agrees to comply with each provision of this section and sections 46a-68e and 46a-68f and with each regulation or relevant order issued by said commission pursuant to sections 46a-56, 46a-68e, 46a-68f and 46a-86; (5) the Contractor agrees 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 Contractor as relate to the provisions of this section and section 46a-56.

(B) Any Contractor who is a party to a municipal public works contract or quasi-public agency project, where any such contract is valued at less than \$50,000 for each year of the contract, shall provide the Commission on Human Rights and Opportunities with a written or electronic representation that complies with the nondiscrimination agreement and warranty under subsection (A)(1) above, provided if there is any change in such representation, the Contractor shall provide the updated representation to the Commission not later than 30 days after such change. Any Contractor who is a party to a municipal public works contract or a quasi-public agency project, where any such contract is valued at \$50,000 or more for any year of the contract, shall provide the Commission with any one of the following: (1) Documentation in the form of a company or corporate policy adopted by resolution of the board of directors, shareholder, managers, members or other governing body of such Contractor that complies with the nondiscrimination agreement and warranty under subsection (A)(1) of this section; (2)

Documentation in the form of a company or corporate policy adopted by a prior resolution of the board of directors, shareholders, managers, members or other governing body of such contractor if (a) the prior resolution is certified by a duly authorized corporate officer of such contractor to be in effect on the date the documentation is submitted, and the executive director of the Commission on Human Rights and Opportunities or designee certifies that the prior resolution complies with the nondiscrimination agreement and warranty under subdivision (A)(1) of this section; or (3) Documentation in the form of an affidavit signed under penalty of false statement by a chief executive officer, president, chairperson or other corporate officer duly authorized to adopt company or corporate policy that certifies that the company or corporate policy of the contractor complies with the nondiscrimination agreement and warranty under subdivision (A)(1) of this section and is in effect on the date the affidavit is signed.

(C) If the Contract is a municipal public works contract or a quasi-public agency project, the Contractor agrees and warrants that s/he will make good faith effort to employ minority business enterprises as subcontractors and suppliers of materials on such public works project. The Contractor shall include the provisions of subdivision (A)(1) of this section in every subcontract or purchase order entered into to fulfill any obligation of a municipal public works contract or contract for a quasi-public agency project, and such provisions shall be binding on a subcontractor, vendor or manufacturer, unless exempted by regulations or orders of the Commission on Human Rights and Opportunities. The Contractor 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 section 46a-56; provided, if such Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the Commission regarding a state contract, the contractor 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.

(D) "Minority business enterprise" means any small contractor or supplier of materials fifty-one per cent 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 section 32-9n; and "good faith" means that degree of diligence which a reasonable person would exercise in the performance of legal duties and obligations. "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. Determination of the Contractor's good faith efforts shall include, but shall not be eliminated to, the following factors: The contractor's 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 on Human Rights and Opportunities may prescribe that are designed to ensure the participation of minority business enterprises in municipal public works contracts or quasi-public agency projects. "Municipal public works project" means that portion of an agreement entered into on or after October 1, 2015, between any individual, firm or corporation and a municipality for the construction, rehabilitation, conversion, extension, demolition or repair of a public building, highway or other changes or improvements in real property, which is financed in whole or in part by the state, including, but not limited to, matching expenditures, grants, loans, insurance or guarantees but excluding any project of an alliance district, as defined in section 10-262u, finance by the state funding in an amount equal to fifty thousand dollars or less. "Quasi-public agency project" means the construction, rehabilitation, conversion, extension, demolition or repair of a building or other changes or improvements in real property pursuant to a contract entered into on or after October 1, 2015, which is financed in whole or in part by a quasi-public agency using state funds, including, but not limited to, matching expenditures, grants, loans, insurance or guarantees.

Art. 77. TERMINATION BECAUSE OF VIOLATION OF WAGE PROVISIONS. A breach of articles 69,71,72,73,74, and 75

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may be grounds for termination of the Contract and for debarment as provided in 29 CFR 5.6.

IN WITNESS WHEREOF, the parties have executed this agreement the day and year as first above written.

ATTEST. \_\_\_\_\_

\_\_\_\_\_  
Contractor

ATTEST. \_\_\_\_\_

\_\_\_\_\_  
Mark D. Boughton, Mayor  
City of Danbury,  
Connecticut

**HOLD HARMLESS AGREEMENT**

\_\_\_\_\_ herein the  
"CONTRACTOR" assumes responsibility for any and all injury to or death of any and all persons, including the CONTRACTOR'S agents, servants and employees, and in addition thereto, for any and all damages to property caused by or resulting from or arising out of any act or omission in connection with this contract or the prosecution of work hereunder, whether caused by the CONTRACTOR or the CONTRACTOR'S agents, servants or employees, or the CONTRACTOR'S subcontractors or suppliers, and the CONTRACTOR shall indemnify and hold harmless the owner, the CITY OF DANBURY, ARCADIS, US, INC., and the STATE OF CONNECTICUT from and against any and all loss and/or expense which they or either of them may suffer or pay as a result of claims or suits due to, because of or arising out of any and all such injuries, deaths and/or damage. The CONTRACTOR if requested, shall assume and defend at the CONTRACTOR'S own expense, any suit, action or other legal proceedings arising there from, and the CONTRACTOR hereby agrees to satisfy, pay and cause to be discharged of record any judgment which may be rendered against the owner or architect arising there from.

Dated at Danbury, Connecticut this    day of            2019.

Signed, Sealed and Delivered  
in the presence of:

SIGNED  
BY:

\_\_\_\_\_

\_\_\_\_\_

**PERFORMANCE, LABOR AND MATERIALS BONDS**

KNOW ALL MEN BY THESE PRESENTS, That we \_\_\_\_\_  
As Principal, and \_\_\_\_\_ as Surety,  
are held and firmly bound unto \_\_\_\_\_  
in the penal sum of \_\_\_\_\_ dollars,  
lawful money of the United States of America, to be paid to the said  
\_\_\_\_\_, its successors and assigns,  
for which payment well and truly to be made, we bind ourselves, our heirs, executors, and  
administrators, successors, and assigns, jointly and severally firmly by these presents.

Signed and sealed with our seals, and dated at  
\_\_\_\_\_, this \_\_\_\_\_ day  
of \_\_\_\_\_ A.D., \_\_\_\_\_.

WHEREAS, the said \_\_\_\_\_  
Has entered into a contract with bearing date \_\_\_\_\_  
a copy of which is attached hereto, the terms of which are herein referred to and made a  
part of this instrument as if fully set forth herein.

NOW THE CONDITION OF THIS OBLIGATION IS SUCH THAT if the  
said \_\_\_\_\_ shall well and truly keep and  
perform all the terms and conditions of said contract on its part to be kept and performed  
(including guarantee and maintenance provisions therein), and shall pay for all materials  
and labor consumed or used in connection with the performance of such work as well as  
for premiums on all insurance policies applying to said work, then this obligation shall be  
void; otherwise it shall remain in full force and effect.



And the said surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration, or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall in any wise affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration, or addition to the terms of the contract or to the work or to the specifications.

(Seal)

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(Seal)

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Sealed and delivered in presence of:

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**NON-COLLUSION AFFIDAVIT OF  
PRIME BIDDER**

State of            )  
                          )  
County of        )                    SS.

\_\_\_\_\_, being first duly sworn, deposes and says that:

1. He is (owner , partner, officer, representative, or agent) of \_\_\_\_\_ the Bidder that has submitted the attached Bid;
2. He is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;
3. Such Bid is genuine and is not a collusive or sham bid;
4. Neither the said Bidder nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affidavit, has in any way colluded, conspired, connived or agreed, directly or indirectly, with any other Bidder, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted or to refrain from bidding in connection with such Contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm or person to fix the price or prices in the attached Bid or of any other Bidder, or, to fix any overhead, profit or cost element in the bid price or the bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the CITY or any person interested in the proposed Contract; and
5. The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees, or parties in interest, including this affidavit.

(Signed) \_\_\_\_\_

\_\_\_\_\_

Title

Subscribed and sworn before me

This \_\_\_\_\_ day of \_\_\_\_\_, 2019

\_\_\_\_\_

\_\_\_\_\_

Title

My commission expires \_\_\_\_\_

**NON-COLLUSION AFFIDAVIT OF SUBCONTRACTOR**

State of            )  
                          )  
County of        )                    SS.

\_\_\_\_\_, being first duly sworn, deposes and says that:

1. He is (owner , partner, officer, representative, or agent) of \_\_\_\_\_ herein referred to as the “Subcontractor”;
2. He is fully informed respecting the preparation and contents of the Subcontractor’s Proposal submitted by the Subcontractor to \_\_\_\_\_, the Contractor for certain work in connection with the \_\_\_\_\_Contract pertaining to the \_\_\_\_\_Project in \_\_\_\_\_(City or County and State);
3. Such Subcontractor’s Proposal is genuine and is not a collusive or sham Proposal;
4. Neither the Subcontractor nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affidavit, has in any way colluded, conspired, connived or agreed, directly or indirectly, with any other Bidder, firm or person to submit a collusive or sham Proposal in connection with such Contract, or refrain from submitting a Proposal in connection with such Contract, or has in any manner, directly or indirectly, sought by unlawful agreement or connivance with any Bidder, firm or person to fix the price or prices in said Subcontractor’s Proposal , or to fix any overhead, profit or cost element of the price or prices in said Subcontractor’s Proposal, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the CITY or any person interested in the proposed Contract; and
5. The price or prices quoted in the Subcontractor’s Proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees, or parties in interest, including this affidavit.

(Signed) \_\_\_\_\_  
\_\_\_\_\_  
Title

Subscribed and sworn before me

This \_\_\_\_\_ day of \_\_\_\_\_, 2019

\_\_\_\_\_  
\_\_\_\_\_  
Title

My commission expires \_\_\_\_\_

- (a) No proposed subcontractor shall be disapproved by the CITY except for cause.
- (b) The Contractor shall be fully responsible to the CITY for the acts and omissions of his subcontractors, and of persons either directly or indirectly employed by them, as he is for the acts and omissions of persons directly employed by him.
- (c) The Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the work to require compliance by each subcontractor with the applicable provisions of this Contract for \_\_\_\_\_
- (d) Nothing contained in this Contract shall create any contractual relationship between any subcontractor and the CITY.

#### OTHER CONTRACTS

The CITY may award, or may have awarded, other Contracts for additional work, and the Contractor shall cooperate fully with such other Contractors, by scheduling his own work with that to be performed under other Contracts as may be directed by the CITY. The Contractor shall not commit or permit any act which will interfere with the performance of work by any other Contractor as scheduled.

**CERTIFICATE OF ATTORNEY**

I, the undersigned, \_\_\_\_\_, the duly authorized and acting legal representative of the City of Danbury do hereby certify as follows:

I have examined the foregoing Contract and Performance and Payment Bond and the manner of execution hereof, and I am of the opinion that each of the aforesaid agreements has been duly executed by the proper parties thereto acting through their duly authorized representatives; that said representatives have full power and authority to execute said agreements on behalf of the respective parties named thereon; and that the foregoing agreements constitute valid and legally binding obligations upon the parties executing the same in accordance with the terms, conditions, and provisions thereof.

\_\_\_\_\_

\_\_\_\_\_  
(DATE)

STATE OF CONNECTICUT     )  
  )     SS. Danbury   , 2019  
COUNTY OF FAIRFIELD    )

Personally appeared \_\_\_\_\_, Mayor of the City of Danbury, signer and sealer of the foregoing instrument, he being thereunto duly authorized, who acknowledged that he executed the same in the capacity and for the purpose therein stated, and that the same is his free act and deed, as Mayor, before me.

\_\_\_\_\_  
Commissioner of the Superior Court  
Notary Public

STATE OF CONNECTICUT )  
 )  
COUNTY OF FAIRFIELD )

SS. Danbury

, 2019

Personally appeared \_\_\_\_\_, of \_\_\_\_\_, signer and sealer of the foregoing instrument, he being thereunto duly authorized, who acknowledged that he executed the same in the capacity and for the purpose therein stated, and that the same is his free act and deed, before me.

---

Commissioner of the Superior Court  
Notary Public

**RESOLUTION**

The undersigned, being secretary of \_\_\_\_\_  
\_\_\_\_\_ hereby certifies that  
\_\_\_\_\_ its \_\_\_\_\_ is  
authorized to execute contracts on behalf of said corporation, and has authority to bind said  
corporation pursuant to the corporate minutes.

By \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_  
Secretary

Dated \_\_\_\_\_

(SEAL)

**GENERAL PROVISIONS**

Sect. G-1 SUBDIVISION OF SPECIFICATIONS. The specifications for the contract are divided into two major subdivisions:

(a) General Provisions - which cover the general requirements for all work under the Contract.

(b) Specifications - which cover the specific provisions for work and materials under the Contract, modify and complement the General Provisions, provide specific requirements for particular items, and define measurement methods for payment. The Contract Specifications shall always govern where there appears to be a lack of agreement between the General Provisions and Contract Specifications.

Sect. G-2 COMPLYING WITH GENERAL PROVISIONS. The terms of the General Provisions are applicable to all of the work under the Contract and shall be complied with by the Contractor, unless specific exceptions are provided under the Contract Specifications.

Unless otherwise expressly stated under the Contract Specifications compensation for complying with the requirements of the General Provisions is deemed to be included in the prices bid and stipulated for the various items in the Proposal.

Sect. G-3 DELETED.

Sect. G-4 STANDARDS. Wherever reference is made in the Contract Documents to the standard of any technical society or other recognized organization, these shall be construed to mean the latest standard adopted and published at the date of advertisement for bids, and such specifications are made part hereof to the extent which is indicated.

The following abbreviations are used throughout the specifications to refer to organizations publishing specifications that are widely accepted as standards:

AISC	-	American Institute of Steel Construction
AASHTO	-	American Association of State Highway and Transportation Officials
ACI	-	American Concrete Institute
AGA	-	American Gas Association
AHDGA	-	American Hot Dip Galvanizing Association
AIEE	-	American Institute of Electrical Engineers
AISI	-	American Iron and Steel Institute



AMCA	-	Air Moving and Conditioning Association
ASA	-	American Standards Association
ASCE	-	American Society of Civil Engineers
ASHRAE	-	American Society of Heating, Refrigerating and Air Conditioning Engineers
ASME	-	American Society of Mechanical Engineers
ASTM	-	American Society for Testing and Materials
AWPA	-	American Wood-Preservers' Association
AWS	-	American Welding Society
AWWA	-	American Water Works Association
F.S.	-	Federal Specifications
IBR	-	Institute of Boiler and Radiator Manufacturers
IPCEA	-	Insulated Power Cable Engineers Association
NBFR	-	National Board of Fire Underwriters
NEC	-	National Electrical Code
NEMA	-	National Electrical Manufacturers Association
SBI	-	Steel Boiler Institute
SSPC	-	Steel Structures Painting Council
UL	-	Underwriters Laboratories, Inc.
OSHA	-	Occupational Safety and Health Act
PCI	-	Pre-stressed Concrete Institute

Sect. G-5 LINES AND GRADES. All work shall be constructed according to the lines and grades shown and approved. If warranted, the Engineer will provide a bench mark on the plans. The Contractor shall lay out and mark upon the ground a base line and bench mark, from which the Contractor shall be responsible for staking out all work.

Staking shall be performed by a State of Connecticut licensed professional land surveyor (PLS) provided by the Contractor, if so requested by the Engineer. No extra cost shall be claimed by the Contractor, if the services of a PLS are requested. The Contractor shall maintain base line stakes and/or critical control necessary for the Engineer to verify the accuracy of the work. Any work improperly done without lines or levels or instructions shall be removed and replaced by the Contractor at his own expense.

No direct payment will be made for the cost to the Contractor for any additional work or delay, resulting from failure to provide an accurate and timely layout. Compensation for all layout services, therefore, is considered as having been included in the bid and stipulated prices.

No separate payment will be made for any costs related to this work. All costs are included in the general cost of the work.

Sect. G-6 CONSTRUCTION PHOTOGRAPHS. Submit two prints of each photographic view within seven days of taking photograph. Take photographs using the maximum range of depth field, and that are in focus, to clearly show the work. Photographs with blurry or out-of-focus areas will not be accepted.

Take 12 digital photographs weekly. Select vantage points to show status of construction and progress since last photographs were taken.

Format: 8-by-10-inch (203-by-254-mm) smooth-surface matte prints on single-weight commercial-grade photographic paper, punched for standard 3-ring binder.

Identification: on back of each print, provide an applied label or rubber-stamped impression with the following information:

- a. Name of Project
- b. Name and address of Photographer
- c. Name of Contractor
- d. Date photograph was taken, if not stamped by camera
- e. Unique sequential identifier

Digital images: submit a complete set of digital image electronic files with each submittal of prints on CD-ROM. Identify electronic media with date photographs were taken. Submit images that have same aspect ratio as the sensor, uncropped. Provide images in uncompressed TIFF format, produced by a digital camera with minimum sensor of 4.0 megapixels, and at an image resolution of not less than 1024 by 768 pixels.

Obtain an transfer copyright usage rights from Photographer to Owner for unlimited reproduction of photographic documentation.

Sect. G-7 DRAWINGS AND SPECIFICATIONS FURNISHED TO CONTRACTOR. The Contractor will be furnished with six prints, of each of the numbered drawings, and six sets of specifications. Additional prints and specifications will be furnished the Contractor upon application, at cost of reproduction.

Where a revision of a drawing becomes necessary, six copies of only the revised drawing will be furnished to the Contractor for inclusion with the previously issued drawings.

Supplementary drawings will be issued by the Engineer to the Contractor from time to time, where the Contract Drawings require supplementing, to explain the work more fully or to show changes which have been ordered by the City. Six prints of each supplementary drawing will be furnished to the Contractor. These supplementary drawings shall have the same force and effect as any other Contract Documents.

The Contractor is required to check all dimensions and quantities on the drawings or schedules given to him by the Engineer, and shall notify the Engineer of all errors therein which he may discover by such examination and checking. The Contractor will not be allowed any extra payment for work he alleges to be due to any error or omission in these specifications, nor in the drawings or schedules, as full directions will be furnished by the Engineer should such error or omission be discovered and the Contractor shall carry out such instructions as if originally specified.

Sect. G-8 WORKING DRAWINGS AND PRINTED MATTER FURNISHED BY CONTRACTOR. The Contractor shall submit for approval, working drawings and descriptions of all material and equipment which he is to furnish, such as steel reinforcement, structural details, layout of pipe, sheeting and bracing, and other details if he intends to deviate from the details shown or if the details are not shown. The Contractor, on approval of the Engineer, may submit manufacturers' literature as a substitute for, or supplement to, the working drawings. The minimum size for any submission shall be 8-1/2 in. by 11 in. All drawings and printed matter submitted shall clearly indicate the Item No. of the Contract Items and the project number to which they correspond (i.e. Item 5, Project #07-XX).

Drawings or printed matter shall give all dimensions and sizes to enable the Engineer to pass on the suitability of the material or layout for the purpose intended. The working drawings shall, where needed for clarity, include outline and sectional views, and detailed working dimensions and designations of the kind of material and the kinds of machine work and finishes required. Drawings for submission shall be coordinated by the Contractor with the drawings heretofore approved, and with the design and function of any equipment or structure.

Material shall not be purchased or fabricated for equipment or structures until the Engineer has reviewed the working drawings, which shall represent all materials and work involved in the construction. No materials or equipment shall be delivered to the site until the working drawings have been approved.

Work shall not be done upon any part of a structure, the design of construction, or which is dependent upon the design of equipment or other features, for which approval is required, until such approval has been received from the Engineer.

Four copies of drawings and printed matter shall be submitted to the Engineer for review. Upon approval by the Engineer, the Contractor shall furnish the Engineer with four prints of each approved drawing, and four copies of approved manufacturer's printed literature. Only drawings which have been checked and corrected by the material fabricator shall be submitted. The Contractor shall be responsible for the prompt submission of all working drawings, so that there shall be no delay to the work due to the absence of such drawings.

Any approval by the Engineer of such working drawings, manufacturer's literature, or other data relative to the work or material to be furnished for the Contract shall not be construed as in any way relieving the Contractor from his full responsibilities under the terms of the Contract, but shall be interpreted only to mean that an examination of the exhibits has been made, that no variation from the contract requirements has been discovered and that no criticism is offered.

Sect. G-9 PERMITS. The Contractor shall obtain and pay for all permits required for the prosecution of the work under the Contract. Required permits include, but are not limited to, permits from the Connecticut Department of Transportation for work in state highways, an Erosion and Sedimentation Control Permit from the Danbury Health Department and the Street Opening Permit from the Danbury Highway Department. He shall pay all charges and expenses and shall furnish all bonds and insurance stipulated in the permits, and shall indemnify and save harmless the City from all claims for damages and any actions that may arise thereunder. The Contractor's attention is directed to the requirement for payment of a "State Education Fee" (based on the construction value of the project) on all projects for which a building permit (building, plumbing, electrical, etc.) is required and a "State Land Use Fee" on all projects for which a zoning permit/fee is required. The Contractor should contact the

City of Danbury Permit Center for the anticipated amounts of these fees. These fees will be paid to the City by the Contractor at the Permit Center, when required permits are acquired.

Sect. G-10 LAND FOR THE CONTRACTOR'S USE. Land and easements for the purpose of this Contract will be provided by the City. If the Contractor desires the temporary use, during construction, of land or lands to which the City has no rights, he shall secure written permission and submit a copy to the Engineer. Land shall not be used or occupied by the Contractor prior to the securing of permission. The Contractor shall at all times save harmless the City from actions by third parties by reason of any acts or omissions by the Contractor.

Before the final acceptance of the work, and as a prerequisite to the release of the semi-final payment, the Contractor shall secure a written lease from authorities having jurisdiction over the lands occupied by him certifying to the satisfactory restoration of all surfaces and structures removed or safeguarded for the work.

The Contractor shall confine his materials and their storage, and the operations of his workmen to limits indicated by laws, ordinances, permits, or directions of the Engineer, and will not unreasonably encumber the premises with such materials but shall store them in orderly fashion, so that they will not interfere with the work under this Contract. The Contractor shall not load or permit any part of the work to be loaded with a weight that will endanger its safety or unduly affect the structures or any part thereof. The Contractor shall enforce the instructions of the Engineer regarding signs, advertisements, fires, and smoking.

Sect. G-11 SAFEGUARDING PROPERTY. The Contractor shall protect trees, shrubs, and grassed areas on the lands of the City, and on adjacent lands, from being cut, trimmed, or injured, unless specifically ordered otherwise, for clearing the site. Any damage to trees, shrubs, or grassed areas shall be made good by the Contractor, at his own expense, to the satisfaction of the owners thereof.

When any monument, whether of stone or concrete, designating the lines of the highway or of private property, is in the line of any construction work and may have to be removed, the Contractor shall notify the Engineer in writing at least 24 hours in advance. Under no circumstances shall such monument be removed or disturbed by the Contractor or by any of his men without a written order from the Engineer.

The Contractor shall furnish the necessary labor which may be required in resetting any monument, under the direct supervision of the Engineer. Should any monument be destroyed through accident or neglect, the Contractor shall be required, at his own expense, to employ a surveyor acceptable to the Engineer, to reestablish the monument.

Sect. G-12 SAFETY PRECAUTIONS. To the extent required by law, public authority, or local conditions, the Contractor shall adequately protect traffic and adjacent property, and shall provide and maintain all passageways, guard fences, lights, and other facilities for protection. The Contractor shall at all times have, as directed or approved, a sufficient number of watchmen to protect the property of the City and to exclude unauthorized persons from the work.

If at any time, in the opinion of the Engineer, the work is not properly lighted, barricaded, and in all respects safe in respect to public travel, persons on or about the work, or public or private property, the Engineer shall have the right to order such safeguards to be erected and such precautions to be taken as he deems necessary and the Contractor shall comply with such orders. If, under such circumstances, the Contractor does not or cannot immediately put the same into proper and approved condition or if the Contractor or his representative is not upon the site so that he can be immediately notified of the insufficiency of safety precautions, then the Engineer may put the work into such a condition that it shall be, in his opinion, in all respects safe, and the Contractor shall pay all expenses of such labor and materials as may have been used for this purpose by him or by the Engineer. Such action of the Engineer, or his failure to take such action, shall in no way relieve the Contractor of the entire responsibility for any cost, loss, or damage by any party sustained on account of the insufficiency of the safety precautions taken by him or by the Engineer acting under authority of this section.

All explosives for blasting shall be transported, stored, handled, and used in accordance with all state and local laws, regulations, and ordinances. Blasting shall be conducted so as not to endanger persons or property and shall be covered and confined in an approved manner. The quantity of explosives kept on hand shall not exceed the amount that is necessary to avoid delay to the work. The composition of explosives shall be such as to cause the least amount of injurious fumes. Particular care shall be exercised to prevent injury to structures adjacent to or across the line of the work, and light charges of explosive thoroughly covered

shall be used at such locations. The Contractor shall be responsible for and shall make good any damage caused by blasting or accidental explosion.

All excavations into which workers may be caused to enter shall be protected according to OSHA 29 CFR Part 1926, Subpart P- Excavations.

Sect. G-13 MAINTAINING AND SAFEGUARDING TRAFFIC. The Contractor as directed, shall build and maintain such temporary roads, passageways, trestles, and bridges as shall be deemed necessary for the accommodation of traffic interfered with by the Contractor's operation for covenant access to the various parts of the work, for access to adjacent buildings and properties, and for other necessary purposes incidental to the work. He shall erect such temporary guards, fences, warning signs, lights, and signals as may be necessary or required to protect all traffic. He shall not deprive any building or property of safe and proper access except with the consent of the occupant, and after due notice to the Engineer.

The temporary roads and the Contractor's access roads shall be located where directed or approved and shall be maintained in good condition. Calcium chloride, or other approved means, shall be used to maintain the roads in a dust free condition.

All costs of maintaining and safeguarding traffic, as required by local authorities shall be included in the general cost of construction.

Sect. G-14 REPLACING, RELOCATING, AND PROTECTING EXISTING STRUCTURES. The locations of existing surface and subsurface structures as shown, are based on the best information obtainable, but the City does not guarantee the accuracy of the data. The Contractor shall be held responsible for checking this data himself as to actual locations and interference's.

During construction, the Contractor shall take every precaution, including hand digging where necessary, to avoid any movement of earth or rock that would damage or endanger existing surface or subsurface structures. The Contractor shall satisfactorily shore, support, and protect any and all pipes, conduits, and structures affected by his work, and shall be responsible for any damage resulting thereto. Any service or utility broken or damaged by the Contractor, unless ordered removed, shall be replaced, repaired, or restored to the satisfaction of the City at the expense of the Contractor.

The Contractor's attention is called to the State of Connecticut Public Act 77-350 and 81-146 which states "No person, public agency or public utility shall engage in excavation without having first ascertained...the location of all underground facilities of public utilities in the area. (The Contractor)... shall notify the central clearinghouse of such proposed excavation, at least 2 full days excluding Saturdays, Sundays and holidays...before commencing...(the work)." The Call Before You Dig telephone number is 1-800-922-4455.

Before beginning any excavation, the Contractor shall give at least 48 hours' written notice of his intention to do so to any companies and parties that have any pipes, conduits, poles, or other structures which may be affected by such excavations. The Contractor shall make arrangements for properly securing and protecting such pipes or structures during the progress and until the completion of the work as shall be satisfactory to the owners thereof, or shall permit and facilitate repairs and changes by the owners. Satisfactory evidence of such arrangements shall be filed with the Engineer, if required, before the work in question begins.

In all cases where temporary pipes must be installed or where sewage, water, or drainage must be pumped or otherwise carried over or around excavations or any other portions of the work, the Contractor shall furnish such pipes, pumps, and all other materials, equipment, and labor as are required to maintain continuity of service in the utilities affected.

The Contractor shall not be entitled to any extension of time or any damages on account of any postponement, interference, or delay caused by any pipes or structures being on the line of work.

Sect. G-15 CARE AND PROTECTION OF WORK AND MATERIALS.  
From the commencement of the work until its completion, the Contractor shall be solely responsible for damage he may do or cause to the property of the City, for the care and protection of the work covered by the Contract, and for the materials delivered at the site or incorporated in the work.

All excavated materials, construction equipment, and materials and equipment to be incorporated in the work, shall be so placed as not to injure the work and so that free access may be had at any time to all parts of the work. Materials and equipment shall be kept neatly piled and compactly and conveniently stored so as to inconvenience as little as possible public travel and adjoining tenants.



All loss, injury, or damage to the work or materials, from whatever cause, shall be made good at the expense of the Contractor.

The Contractor shall provide suitable and adequate storage room for materials and equipment during the progress of the work, including approved weather tight storage for all materials and equipment which might deteriorate if left uncovered. He shall provide protection against damage or deterioration for all equipment during storage, and after installation, until the equipment is put to use by the City.

During adverse weather, the Contractor shall take all necessary precautions so that the work may be properly done and be satisfactory in all respects. When required, protection shall be provided by use of tarpaulins, wood and building paper shelters, or other approved means.

During cold weather, materials shall be preheated, if required, and the materials and adjacent structure into which they are to be incorporated shall be made and kept sufficiently warm so that a proper bond will take place and proper curing, aging, or drying will result. Protected spaces shall be artificially heated by approved means which will result in a moist or a dry atmosphere according to the particular requirements of the work being protected.

The Engineer may suspend construction operations at any time, when in his judgment, the conditions are unsuitable or the proper precautions are not being taken, whatever the weather may be, in any season.

Sect. G-16 EQUIVALENT MATERIALS AND WORKMANSHIP. Wherever in the Contract Documents a particular brand or make of materials is shown or specified by trade name or otherwise, such brand or make of materials which, in the opinion of the Engineer, is the recognized equal of that specified as to composition, characteristics, workmanship, economy, of operation and maintenance, and is suitable for the purpose intended, may be accepted.

All materials incorporated in the work shall be new, or standard and first grade quality, and of the best workmanship and design. No inferior or low grade materials will be either approved or accepted, and all work of assembly and construction must be done in a neat, first-class and workmanlike manner.

Sect. G-17 TESTING OF MATERIALS. If the Engineer so requires, either prior to beginning or during the progress of

the work, the Contractor shall submit samples of materials for such special tests and analyses as may be necessary to demonstrate that they conform to the specifications. The Contractor will select and pay for testing laboratories to perform such tests and analyses. Such samples shall be furnished, taken, stored, packed, and shipped as directed, at the expense of the Contractor. The Contractor shall pay for all tests, etc. relating to the material used on the work, in accordance with the provisions of the contract items.

The Contractor shall submit data and samples, or place his orders, sufficiently early to permit consideration, inspection, testing and approval before the materials and equipment are necessary for incorporation in the work. Any delays resulting from his failure so to do shall not be used as a basis of a claim against the City or the Engineer.

If the Engineer orders sampling and analyses or tests of materials which are usually accepted on certification of the manufacturer but which appear defective or not conforming to the requirements of the specifications, the City will bear the costs of tests and analyses if the material is found to be sound and conforming to the specifications; if found defective or not conforming to the specifications, the Contractor shall bear all of the costs.

Sect. G-18 CERTIFICATES OF MANUFACTURER. For pipe, cement, steel reinforcement, and similar materials which are normally tested in the shop by the manufacturer, the Contractor shall furnish the Engineer certified records of physical, chemical, and other pertinent tests, and/or certified statements from the manufacturer that the materials have been manufactured and tested in conformity with the specifications. Where such a small quantity of material is required as to make physical or chemical analyses impractical, a certificate from the manufacturer stating the results of such tests or analyses of similar material which were concurrently produced, may at the discretion of the Engineer, be considered as the basis for the acceptance of such materials.

Sect. G-19 INSPECTION. The City contemplates and the Contractor agrees to the most thorough inspection of the work at all times by the City and the Engineer, including all labor performed and materials furnished, delivered, or intended to be used in the work, including manufacture, preparation, and testing. The Contractor shall not use any material which has not been inspected or tested, and accepted, or perform any work except under inspection by the Engineer. The Contractor shall keep the Engineer advised of the progress of the work

away from the site requiring inspection or witnessing of tests, so that arrangements may be made for inspection at the proper time.

Inspection, test or acceptance of any materials prior to shipment shall not be deemed as a final acceptance of the materials. The Engineer may inspect or require tests or analyses if any portion of the materials at any time after delivery to the site, either before or after installation, and any material which is found to be defective or which does not otherwise conform to the requirements of the specifications shall be rejected and removed forthwith from the site, as provided in the Contract.

Sect. G-20 HAULING MATERIALS. Before starting any work, the Contractor shall arrange with the municipal, county, or state officials having jurisdiction for the use of routes of travel for hauling materials that will result in minimum inconvenience to the traveling public. Routes of travel so scheduled shall be adhered to throughout the course of the work.

The Contractor shall, at his own expense, handle, haul, and distribute all materials to the different portions of the work as required. Delays in handling involving storage charges and demurrage charges by the railroad and other companies shall be at the expense of the Contractor.

Sect. G-21 WEIGHING AND MEASURING. Whenever requested by the Engineer, the Contractor shall provide personnel, and all required instruments and devices for weighing and measuring, for determining the quantity of materials.

For estimating quantities, in which the computation of areas by geometric methods would, in the opinion of the Engineer, be comparatively laborious, it is stipulated and agreed that the planimeter shall be considered an instrument of precision adaptable to the measurement of such areas.

Sect. G-22 WATER SUPPLY. The Contractor shall provide the quantity of water required for the work free of charge. The Contractor shall provide all necessary pumps, pipe, connections, and fixtures. Upon completion of all work, the Contractor shall disconnect and remove all temporary connections and fixtures.

Sect. G-23 ELECTRICAL POWER AND TELEPHONE. The Contractor shall arrange for all temporary light and power service required by him in the performance of work under

the Contract, and shall pay all expenses and charges related thereto and all costs of electrical power consumed by him. The Contractor shall provide sufficient temporary light to assure that all work can be done in a safe and workmanlike manner.

The Contractor, at his own expense, shall arrange with the local telephone company for all telephone service required by him in the performance of his work under the Contract.

Upon completion of all work, the Contractor shall disconnect and remove the temporary light and power service.

Sect. G-24 SANITARY REGULATIONS. The Contractor shall provide and maintain in a strictly sanitary manner toilet facilities for his workmen, which shall be screened from public view. The location and method of waste disposal shall be as approved. The Contractor shall observe and enforce all sanitary regulations and maintain satisfactory sanitary conditions around and on all parts of the work.

Sect. G-25 SALVAGED MATERIALS. All materials and equipment removed from existing structures, except that designated as rubbish, shall remain the property of the original owner, and shall be stored on the site by the Contractor, as directed. Existing stone paving block and curbing, and catch basins and manhole frames, grates and covers, which are determined by the Engineer to be salvageable, shall be removed without breakage and delivered by the Contractor to the City Public Works Department Yard on Newtown Road. There will be no separate payment for such salvage and all costs in connection therewith shall be included in the general cost of the contract.

Rubbish shall be removed from the site and disposed of by the Contractor at his own expense.

Sect. G-26 CLEANING UP AND REMOVAL OF DEBRIS. The Contractor shall expressly undertake at his own expense:

(a) frequently to clean up all refuse, rubbish, scrap materials, and debris caused by his operations to the end, so that at all times the site shall present a neat, orderly, workmanlike appearance;

(c) before semi-final payment, to remove all surplus material, falsework, temporary structures, including foundations thereof, plant of any description, and

debris of every nature resulting from his operations and to put the site in a neat orderly condition; and

(c) before semi-final payment, he shall restore all areas which have been used for storage of materials and equipment, and all areas which have been disturbed by his operations, to their original condition, or to a condition satisfactory to and approved by the City. He shall seed or sod any grassed areas damaged by his operations, and shall maintain such areas until the expiration of the maintenance period. Any such areas which fail to show a uniform stand of grass shall be re-seeded or re-sod until an acceptable stand of grass exists.

Sect. G-27 STREAM OBSTRUCTIONS. Material deposited in any stream channel by the Contractor's prosecution of work, except by permission of the Engineer, which in any way whatsoever obstructs or impairs the flow of the stream shall be removed as directed by the Engineer and at the Contractor's expense.

Sect. G-28 FIELD OFFICE: N/A

Sect. G-29 CLOSURE OF CITY STREETS. It is contemplated that with the approval of the Engineer and the City traffic authority and satisfactory rerouting of traffic, portions of streets may be closed during the daytime operations of the Contractor, provided that at the end of each day the Contractor shall again open and maintain travel on the street. He shall also give all property owners opportunities to enter and leave their premises at all times, unless otherwise arranged by him with the approval of the Engineer and/or other authorities having jurisdiction.

All costs of maintenance and protection of traffic, including lights, signs, barricades, policemen, traffic men, flagmen, etc., necessary for the protection and smooth movement of vehicular and pedestrian traffic shall be included in the general cost of construction. The Contractor shall furnish all labor, equipment, and materials necessary to maintain and protect traffic as required by the local authorities.

Sect. G-30 WORK BY OTHERS. It is anticipated that work by others will be carried out during the period of work under this contract. The Contractor shall be responsible to coordinate all work by utilities without additional cost to the City.

The provisions of Article 40 of the Contract shall apply to the above work, including that by public utility companies, except that the provisions of the Article do not apply to the right of the Contractor to recover damages from a utility company.

Sect. G-31 RESTORATION IN EASEMENTS. In easements, the Contractor shall replace or restore, as approved, all surfaces disturbed or damaged by his construction operations and/or storage, including but not limited to, paved or unpaved roads, driveways, walks, curbs, drains, fences, walls, lawns, trees, shrubs, hedges, plantings, and other improvements.

Prior to starting construction in any easement, the Contractor, the Engineer and the property owner(s) shall make an inspection of the property contained within the lines of the easement. The existence of improvements contained therein and their condition shall be noted as mutually agreed upon. The Contractor is advised to take such photographs as he may deem necessary to depict existing conditions. The intent of these specifications is to restore all areas within easement lines through properties to at least their original condition except as otherwise agreed by the property owner(s) and approved.

Sect. G-32 SEDIMENTATION CONTROL. The Contractor is to protect all watercourses, storm sewer systems, and roadways from sedimentation, both during and after construction. This provision applies particularly to de-watering activities, storage of excavated or stockpiled material and trench or ditch excavation.

The Contractor shall operate all equipment and perform all construction operations so as to minimize pollution.

The Contractor is responsible for acquiring an Erosion and Sedimentation Control Permit from the City of Danbury Health Department and for preparing any erosion and sedimentation control plans required for said permit.

Sect. G-33 SNOW REMOVAL. If the Contractor's operations or occupancy of any public street of highway, or the rough surfaces over any trench or area being maintained by the Contractor, shall interfere with the removal or plowing of snow or ice by the public authorities or land owners, or sanding of icy surfaces, in the ordinary manner with regular highway equipment, then the Contractor shall perform such services for the said public authorities or owners without charge; or failing to do so, shall reimburse the said authorities, owners or the City for any additional cost to

them for doing such work occasioned by the conditions arising from the Contractor's operations, occupancy or trench surfaces, together with any damage to the equipment of said parties by those conditions, or claims of any party for damage or injury or loss by reason of failure to remove snow or ice or to sand the icy spots under those conditions.

Sect. G-34 DUST CONTROL. The Contractor shall take all necessary precautions to prevent and abate nuisance caused by dust arising from his operations. Approved methods applicable to various parts of the work, such as application of water spray, oil, tars, emulsions, or calcium chloride, shall be employed. This also applies to maintaining temporary paving nuisance-free until permanent paving is placed. The area of construction along roadways shall be broom swept each day after completion of the day's work.

Sect. G-35 WORKING CONDITIONS. In prosecuting the work of this Contract, the Contractor shall provide working conditions on each operation that shall be as safe and healthful as the nature of the operation permits. He shall comply with all safety and sanitary rules, laws, and regulations.

Sect. G-36 WORK IN INCLEMENT WEATHER. During freezing, stormy, or inclement weather, no work shall be performed except such as can be done satisfactorily and in such manner as to secure first-class construction throughout.

Sect. G-37 EMERGENCY WORK. The Contractor shall file, with the City of Danbury, the name and telephone number of a person authorized by him who may be contacted regarding emergency work at the job site that may be required during non-working hours for reasons of public safety. This person shall be readily available and have full authority to deal with any emergency that may occur.

Sect. G-38 SHEETING, SHORING AND BRACING. Where necessary, the sides of trenches and excavations shall be supported by adequate sheeting, shoring, and bracing. The Contractor shall be held accountable and responsible for the sufficiency of all sheeting, shoring, and bracing used and for all damage to persons or property resulting from the improper quality, strength, placing, maintaining, or removing of the same. Where sheeting is removed, care shall be taken not to disturb the new work or existing utilities and structures.

No sheeting is to be left in place unless expressly permitted by the Engineer. No direct payment will be made for sheeting, shoring, and bracing, and compensation for such work and all expenses incidental thereto shall be considered as included in the lump sum and unit prices bid for this Contract.

All excavations into which workers may be caused to enter shall be protected according to OSHA 29 CFR Part 1926, Subpart P-Excavations.

Sect. G-39 OPERATION OF VALVES. Unless otherwise permitted, existing valves shall not be operated by the Contractor. Whenever the operation of a valve is necessary, the Contractor shall make arrangements, at least 48 hours in advance of the need, to have the Owner's forces perform the required operations.

Sect. G-40 SOIL AND GROUNDWATER CONDITIONS. The Owner assumes no responsibility whatsoever with respect to ascertaining for the Contractor such facts concerning physical characteristics at the site of the project. The Contractor agrees that he will make no claim for and has no right to additional payment or extension of time for completion of the work, or any other concession because of any interpretations or misunderstanding on his part of this, Contract, or because of any failure on his part to fully acquaint himself with all conditions relating to the work.

Sect. G-41 REMOVAL OF CONDEMNED MATERIALS. The Contractor shall remove from the site of work, without delay, all rejected and condemned materials of any kind brought to or incorporated in the work. No such rejected or condemned materials shall again be offered for use by the Contractor.

Sect. G-42 OCCUPATIONAL SAFETY AND HEALTH ACT. The applicable sections of the Occupational Safety and Health Act of 1970 (Williams Steiger Act) shall apply and be made a part of this Contract. All excavations into which workers may be caused to enter shall be shored against cave-in in accordance with OSHA 29 CFR, Part 1926, Subpart P-Excavations. The Contractor shall be solely responsible for complying with the requirements of this Act. The Contractor's attention is particularly directed to the record keeping requirements of this Act.



Sect. G-43 MARKING NEW UNDERGROUND PLANT. All new underground plant shall be marked with warning tape in accordance with State of Connecticut Public Act 16-345 and DPUC Regulations.

Tape shall be installed above all underground plant in accordance with DPUC Regulations. Color coding of tape for various underground plant shall be as follows:

- Yellow - Gas, oil, petroleum products, compressed gasses and all other hazardous liquid.
- Red - Electric power lines or conduits.
- Purple - Radioactive materials.
- Orange - Communication lines or cables, including telephone, telegraph, cable television.
- Blue - Water.
- Green - Sanitary Sewers.

Warning tape shall be conductively traceable warning tape consisting of aluminum foil encased in two layers of inert plastic film, specifically formulated for prolonged use underground. Tape shall be highly resistant to alkalis, acids, and other destructive agents found in soil. Tape shall have a high minimum tensile strength of 80 lbs. per 3" wide strip and shall bear a continuous printed message every 16" to 36" warning of the installation buried below. Proposed warning tape is to meet and/or exceed current standards and is to be approved by the City prior to use.

Sect. G-44 PAYMENT FOR MISCELLANEOUS WORK. No direct payment will be made to the Contractor for furnishing and providing miscellaneous temporary works, plant, and services, including Contractor's office, Resident Engineer's office, sanitary requirements, water supply, power, tools, equipment, lighting, telephone systems, store houses, store yards, safety devices, permits, insurances, bonds, watchmen, clean-up, and the like, or other items specified under these General Provisions, unless payment therefore has been specifically provided. Compensation for the same is understood to be included in the scheduled prices hereinbefore given for the various kinds of work contemplated.

Sect. G-45 SAFETY. Contractor shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the work, and

shall comply with all applicable laws, ordinances, rules, regulations and orders of any public body having jurisdiction for the safety of persons or property.

It is not the function of the Engineer to supervise or direct the manner in which the work to be done under this Contract is carried on or conducted. The Engineer is not responsible for construction means, methods, techniques, sequences, or procedures, or for safety precautions and programs in connection with the work, and he will not be responsible for the Contractor's failure to carry out the work in accordance with the Contract Documents.

Sect. G-46 RECORD DOCUMENTS.

A. RECORD DRAWINGS. Do not use record documents for construction purposes. Protect record documents from deterioration and loss in a secure, fire-resistant location. Provide access to records documents for City reference during normal working hours.

Maintain a clean and undamaged set of blue or black line white-prints of contract drawings and shop drawings.

Mark record drawings with red erasable pencil. Mark new information that is important to the City, but not shown on the contract drawings or shop drawings. Note related change orders, where applicable.

At the completion of construction, the Contractor shall submit three (3) sets of blue or black line paper final approved record drawings, a set of reproducible (mylar) record drawings and an electronic version of the record drawings for the project. Paper copies of the preliminary record drawings are to be submitted to the City for review as to completeness and acceptability prior to the finalization of the record drawings. When the paper copies of the record drawings are deemed acceptable, the Contractor will be so notified and paper, mylar and electronic versions are then to be produced and forwarded to the City. Electronic versions of the final record drawings are to be provided on CD in AutoCAD (.dwg, .dxf or .dwt) or a version compatible with the latest AutoCAD format.

A record drawing of each of the Contract drawings is to be submitted, whether or not changes have been made or additional information has been added.

Utility drawings, site record drawings and any other project components are to be certified as conforming to the

requirements of an A-2 survey and then signed and sealed by a State of Connecticut licensed land surveyor.

The City will not reduce the retainage being held from 5% to 2% until the record drawings have been accepted by the City, even if the City has taken ownership of the project and substantial completion has been achieved.

B. MAINTENANCE MANUALS. Organize and submit to the City two (2) copies of all operating and maintenance data organized and indexed into suitable sets of manageable size. Electronic versions in a form acceptable to the City are also to be produced and forwarded to the City. The hard copy manuals are to be bound properly indexed data into individual heavy duty 2-inch, 3-ring vinyl covered binders, with pocket folders for folded sheet information. Mark appropriate identification on front and spine of each binder. Include the following types of information:

1. emergency instructions
2. copies of warranties
3. recommended "turn around" cycles
4. inspection procedures
5. shop drawings and product data

G-47. PROJECT CLOSEOUT.

A. INSPECTION. Before requesting an inspection for certification of Substantial Completion, the following list of requirements is to be addressed. List exceptions in the request.

1. The Application for Payment that coincides with, or first follows, the date Substantial Completion is claimed is to show 100 percent completion for the portion of the work that is substantially complete. If 100 percent cannot be shown, include a list of incomplete items, the value of incomplete construction and reasons the work is not complete.
2. Advise the City of pending insurance change-over requirements.
3. Submit specific warranties, workmanship bonds, maintenance agreements, final certifications and other similar documents.

4. Obtain and submit releases to the City enabling the City unrestricted use of the work and access to services and utilities; include occupancy permits, operating certificates and similar releases.
5. Submit record drawings, maintenance manuals and similar final record information to the City.
6. Deliver tools, spare parts, extra stock and similar items to the City.
7. Remove temporary facilities from the site, along with construction tools, mock-ups, and similar items.
8. Complete final clean up requirements, including touch-up painting, other repairs and restoration of marred exposed finishes.

The written request for the final inspection is to be submitted to the City.

B. FINAL CLEANING. Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to the condition expected in a normal, commercial building cleaning and maintenance program. Comply with manufacturer's instructions.

Complete the following, where applicable, before requesting the inspection for substantial completion.

1. Remove labels that are not permanent labels.
2. Clean transparent materials. Remove glazing compound and other noticeable materials. Replace chipped or broken glass or other damaged materials.
3. Clean exposed exterior and interior hard surfaced finishes to dust-free condition, free of stains, films and other foreign substances. Leave concrete floors broom clean. Vacuum carpeted surfaces. Restore reflective surfaces to their original condition.
4. Clean the site, including landscape development areas, Of rubbish, litter and other foreign substances. Sweep paved areas broom clean. Remove stains, spills and other foreign deposits. Rake grounds that are neither paved nor planted, to a smooth, even textured surface.
5. Remove temporary protection and facilities installed for the protection of the work during construction.

6. Comply with regulations of authorities having jurisdiction and safety standards for cleaning.
7. Do not burn waste materials. Do not bury debris or excess materials on the City's property. Do not discharge volatile, harmful or dangerous materials into drainage systems. Remove waste materials from the site and dispose of them in a lawful manner.
8. Where extra materials of value are remaining after completion of the work, arrange for disposition of these as directed by the City.

C. FINAL ACCEPTANCE. Before requesting in writing the final inspection for certification of final acceptance, complete the following. List exceptions in the request.

1. Submit the final payment request with releases and supporting documentation not previously submitted and accepted. Include certificates of insurance for products and completed operations where required.
2. Submit an updated final statement accounting for additional changes to the contract sum.
3. Submit a certified copy of the Final Inspection List of items to be completed or corrected, stating each item has been completed or corrected or otherwise resolved for acceptance.
4. Submit consent of surety to final payment.
5. Submit evidence of final, continuing insurance coverage complying with insurance requirements.

The City will re-inspect the work upon receipt of notice that the work, including Final Inspection List items from earlier inspections, has been completed, except items whose completion has been delayed because of circumstances acceptable to the City.

## **SCOPE OF WORK**

### **1.0 DESCRIPTION OF WORK**

The site consists of a 3.68-acre parcel of land located at 89 Rose Hill Avenue in Danbury, Connecticut. The City of Danbury currently owns the property via foreclosure. Mallory Hat Factory occupied the Site from the late 1800s to the late 1980s. The buildings on the Site were assessed for hazardous materials and subsequently demolished by the United States Environmental Protection Agency (EPA) during 1999. The concrete slab foundation currently remains at the Site. The Still River flows through the Site, and part of the foundation was constructed over a portion of the river along the southwestern portion of the site. Two partially buried 10,000-gallon fuel oil tanks are present along the southern portion of the site.

The City of Danbury (the “City” and the “Owner”) is undertaking environmental remediation of the former Mallory Hat Factory site. Remediation work includes excavation of approximately 5,200 tons of petroleum and mercury-impacted soils within various locations on the site, on-site soil stockpiling and management, off-site soil disposal at licensed disposal facilities (including disposal facility approvals, truck loading and transportation to disposal facility), removal of two, partially buried steel 10,000-gallon fuel oil tanks (includes pumping, cleaning, and off-site disposal of tanks and all materials), and installation and maintenance of erosion and sedimentation controls in the work areas. Work will also include pumping, settlement, storage, and disposal of petroleum-impacted groundwater within the tank area.

### **2.0 GENERAL CONDITIONS**

- A. The Contractor will be responsible for the excavation, stockpiling, management, transportation and disposal of petroleum and mercury-impacted soils identified within designated areas beneath the site. All environmental remediation work associated with this bid will be completed under direct supervision of a Licensed Environmental Professional (LEP) that has been retained for this project by the City.
- B. The Contractor performing this project shall demonstrate recent experience with similar projects in Connecticut.
- C. The Contractor will be responsible for the storage, handling, appropriate labeling and disposal of all soil and water generated during the course of this project and must be familiar with the requirements for handling, labeling, transportation and disposal of such materials. All contaminated materials must be handled, stored,

- labeled, transported and disposed of in accordance with the EPA, U.S. Department of Labor (Occupational Safety and Health Administration), U.S. Department of Transportation, Connecticut Department of Energy and Environmental Protection (CTDEEP) and other state and local requirements, as applicable.
- D. Work will be inspected by the Owner and/or the project LEP to be designated by the Owner prior to the start of the work. The Owner reserves the right to stop work on any project if, in the opinion of the Owner or LEP:
1. Materials or work are not in conformance with the specifications, applicable codes, standards and/or accepted practices;
  2. The contractor's activities result in damage to Owner's or adjacent properties;
  3. An unsafe work condition or hazard exists;
  4. The Contractor's personnel are not properly licensed; or
  5. Any other condition, situation or circumstance which, in the opinion of the Owner or Owner's authorized representative, would be a detriment to the best interests of Owner if allowed to persist.
- E. In advance of mobilization, the Contractor must provide a proposed sequence of work and project schedule in consultation with Owner.
- F. The soil to be removed is known to contain petroleum (fuel oil) and mercury, and some metals at concentrations above natural background. Soils deemed for disposal by the project LEP must be disposed of at an appropriate, permitted location. The Contractor will select the disposal/treatment facility and the Contractor will be responsible for all aspects of soil handling and disposal.
- G. It is anticipated that the excavated soils will be free of free-draining liquids. If liquids drain from the sediment stockpiles, the Contractor is responsible for containing and removing those liquids for proper off-site disposal or treatment. The liquids cannot be discharged to the ground or to the river. The Contractor will select the disposal/treatment facility and the Contractor will be responsible for all aspects of water handling and disposal.
- H. The Contractor is responsible for the health and safety of their employees and those of their subcontractors. The Contractor is required to submit a project-specific Health and Safety Plan consistent with the requirements of 29 CFR Part 1910.120, including a job hazard analysis, before starting this scope of work. All

on-site workers are required to have appropriate training in accordance with 29 CFR Part 1910.120.

- I. The Contractor will be responsible for traffic control and for obtaining any necessary permits for local truck traffic and for accessing the local roads adjacent to the project area. Travel across or on the railroad right of way along the property will not be permitted.
- J. The Contractor will be responsible for maintaining a clean work site, including cleanup of trash and debris generated by the Contractor and their subcontractors on a daily basis.
- K. The Contractor is responsible for providing any electrical power and clean water they need to complete the scope of services. The Contractor will be responsible for providing drinking water for their employees and sanitary facilities for their employees, authorized visitors and Owner representatives.
- L. The Contractor is responsible for dust monitoring and for implementing dust-control measures, when necessary. Dust-monitoring results must be recorded and provided to the Owner's representative daily and on request.
- M. Notify Call Before You Dig (CBYD). In advance of conducting any subsurface work at the Site, the Contractor is responsible for marking areas of disturbance and notifying CBYD.
- N. The Contractor will be required to maintain erosion controls in accordance with and project descriptions provided to CTDEEP and plans approved by the Danbury Environmental Impact Commission.

### **3.0 CONTRACTOR SUBMITTALS**

- A. Health and Safety Plan (prior to start of work)
- B. Sequence of Work and Project Schedule (prior to start of work)
- C. Documentation for disposal of all wastes exiting the site (within 15 days following waste shipment; to include at minimum facility weight tickets (for soil/sediment) or documentation of volume (for liquids), name/location of disposal facility and receipts from facilities for acceptance of wastes).

### **4.0 PROJECT DESCRIPTION AND GENERAL SEQUENCE OF WORK**

- A. The Contractor will obtain any necessary local permits and be responsible for CBYD notification. The City will obtain or register for appropriate



CTDEEP permits for soil/sediment management (“*General Permit for Contaminated Soil and/or Sediment Management (Staging and Transfer)*”), as may be applicable.

- B. The Contractor will install and maintain erosion controls in the stockpile areas, as specified in the plans, and will comply with applicable conditions in the Danbury Environmental Impact Commission approval. The Contractor is responsible for preparing areas to be used for stockpiles, as may be needed. All stockpiles must conform with the requirements in CTDEEP “*General Permit for Contaminated Soil and/or Sediment Management (Staging and Transfer)*” regardless of whether or not the General Permit is applicable. Stockpiles will be underlain by and covered with plastic and engineered to allow containment, collection and recovery of any water that may drain from the sediment. At the conclusion of work, the Contractor will dismantle the erosion controls and dispose of perimeter controls (hay bales), plastic, and other stockpile controls, and restore the stockpile location to the condition prior to use.
- C. Stockpile locations will be established on the site at locations approved by the Owner and LEP. The primary soil stockpile will be tentatively located near the main entrance to the site. Secondary stockpiles may be set up at locations proximate to active work areas as the project progresses. At no time will the Contractor permit more than 1,000 cubic yards of soil to be staged in the project area.
- D. Contaminated soil will be loaded out from the stockpiles to waiting trucks for proper, off-site disposal or recycling on an ongoing basis to limit the quantity of stockpiled sediment.
- E. If water drains from the sediment stockpile(s), the Contractor is responsible for containing, collecting, transporting and disposing of or treating the liquid at a permitted facility. The liquids cannot be discharged to the ground, storm drains, sanitary sewer (unless with proper approvals) or to the river.
- F. The Contractor will be responsible for monitoring and controlling dust/particulate levels in the excavation/loading areas and the stockpile/loading areas during the course of work.
- G. Wastes will be manifested for disposal or recycling by the Contractor at permitted off-site facilities. Manifests will be signed by the Owner. The Contractor will be responsible for the proper labeling of the transport vehicles.

H. Upon meeting the project objectives, the Contractor will:

1. Remove and dispose of all accumulated soil deemed for off-site disposal in accordance with the specifications;
2. Deconstruct soil stockpile locations and dispose of all erosion and sediment control materials; and
3. Restore the work areas, including but not limited to stockpile areas and access routes across private and City property, to the satisfaction of the City.

**4.0 BID ITEMS**

**A. BASE BID**

1	<p><b>Pre- and Post-Remediation:</b> Mobilization, equipment decontamination, demobilization. Work will include: installation of stone truck tracking pad at the main site entrance; provision and installation of project sign; installation, movement, maintenance and removal of erosion and sediment controls; provision of, maintenance and removal of sanitary facilities; maintenance and protection of traffic; all other services, equipment and materials required to complete the scope of work that are not included in other bid items.</p> <p>The Contractor is also required to use all necessary Best Management Practices in accordance with the 2002 Connecticut Guidelines for Erosion and Sediment Control to prevent sediment from being transported into the flowing water of the Still River. If in the opinion of the City’s representative the amount of sediment being transported into the river is significant, the Contractor shall be ordered to stop the construction work and to install effective sedimentation and erosion controls devices. During periods of heavy rain the construction operations shall be suspended to minimize the amount of erosion, and the stockpile area and disturbed construction areas shall be covered with plastic tarps.</p> <p>All construction equipment shall be fueled and all fuel stored at least 100 feet from the Still River or a drainage system. All equipment shall be moved out of the river channel at the end of each work day.</p> <p>Payment for this work will be made at the contract lump sum price for pre- and post-remediation once the project has been completed.</p>
2	<p><b>Soil Stockpile Area Preparation:</b> Main site entrance and center of site. Polyethylene sheeting for contaminated soil (6 mil thick minimum) stockpile management; erosion control (silt fence and hay bales); deconstruction and cleanup.</p> <p>The Contractor is required to perform all necessary cleaning and soil removal until the City’s Consultant confirms the site has not been contaminated by the stockpiling of the sediments. Payment for this work and all materials, equipment and labor will be made at the contract lump sum price.</p>

3	<p><b>Tank Removal:</b> Excavate and remove two (2) partially buried, 10,000-gallon, steel, fuel oil tanks (tanks contain approximately 150-200 gallons of residual fuel oil and water mixture); remove necessary vegetation, all associated piping, concrete. Remove the concrete block retaining wall and proper disposal off-site; inert tank, pump, clean; and any work necessary for off-site transportation and disposal/recycling of tanks in accordance with the plans, specifications and all State and Federal Regulations.</p> <p>Contractor will be required to provide disposal/recycling documentation for the tanks and contents of pumping and cleaning. Payment for this work will be made at the contract lump sum price for tank removal once disposal documentation for tank contents/cleaning and the tanks have been received.</p>
4	<p><b>Soil Excavation Activities:</b> Excavate and stockpile clean soil, and petroleum / mercury-impacted soils in designated areas throughout the site. Soils are to be segregated and stockpiled in designated areas as instructed by the environmental consultant/LEP.</p> <p>Payment for this work will be made at the contract unit price of soil disposed of at the disposal facility in accordance with all State and Federal Regulations.</p>
5	<p><b>Frac Tank:</b> 21,000-gallon frac tank; mobilization, rental, pumps, hoses, generator, 12”-diameter minimum x 12 foot long minimum perforated pipe material for installation of groundwater sump backfilled with gravel; groundwater pumping from sump during remediation; frac cleaning (include necessary equipment and materials, power washer, cleaning supplies, provide water); demobilization.</p> <p>Payment for this work will be made at the contract unit price once the frac tank has been demobilized from the site.</p>
6	<p><b>Frac Tank Pumping and Discharge:</b> Petroleum-impacted groundwater to be treated via sock filters and granulated activated carbon (GAC) to be discharged to the City sanitary sewer system via an approved discharge permit obtained by the City. The permit will be for disposal into the sanitary sewer system. This task to include all labor, equipment and supplies (pumps, hoses, fittings, carbon vessels, carbon media, flow meter, required permit sampling, etc.). Costs to also include mobilization and demobilization of treatment equipment and proper disposal of the spent GAC once dewatering has been completed. Sewer connection to be provided by the City located 10 feet off the existing gutter line of Rose Hill Road.</p> <p>Payment for this work will be made at the contract lump sum price frac tank pumping and discharge once equipment has been removed and disposal documentation for GAC have been received.</p>
7a	<p><b>Backfill Material:</b> Backfill excavation areas with natural/virgin, certified clean, bank run sand/gravel (no debris, wood, brick, pond muck, etc.). Compaction with a vibratory roller is required for the larger petroleum area and smaller areas. Compaction testing is not required.</p> <p>Payment for this work will be made at the contract unit price of the backfill material provided by the quarry/supplier.</p>
7b	<p><b>Chemical Oxidation Compound and Gypsum:</b> Application of approximately 2,000 pounds of chemical oxidation compound (persulfate) mixed in the open excavation below the groundwater table with dry pulverized gypsum material. Chemical oxidation compounds and the gypsum material (one truck load, 20-22 tons) are to be provided by the Contractor. A DEEP In-Situ Chemical Oxidation permit will be obtained by the City.</p> <p>Payment for this work will be made at the contract price of the chemical oxidation compound and gypsum material once they have been applied to the open excavation.</p>

8	<p><b>Backfill Material (beneath groundwater table):</b> Stone backfill material and placement beneath groundwater table in the petroleum excavation area; filter fabric installation above stone to prepare for backfill material.</p> <p>This work will be paid for at the contract unit price per ton for stone backfill material, complete in place, including all materials, equipment, tools and labor incidental thereto.</p> <p>Contractor will be required to provide documentation from the quarry or supplier for the backfill certifying that it is clean material or from a virgin source.</p>
9	<p><b>Dust Control:</b> Provide the necessary equipment and supplies (hoses and fittings) to control dust during remediation activities. The nearest fire hydrant is located at the intersection of Rose Hill Avenue, Beaver Street and Rose Street (located on the same side of the site). The City will provide the water from the hydrant at no cost.</p> <p>Payment for this work will be made at the contract price once the completion of dust control activities have been completed at the site.</p>
10	<p><b>Traffic Control:</b> Traffic control by a Municipal Police Officer or approved traffic control contractor for truck traffic; staging, or any other activity where traffic control is necessary.</p> <p>Contractor is required to pay the Police Department or approved traffic control contractor directly and submit proof of payment with their invoices plus 5% markup.</p>

**B. ADD ALTERNATES**

AT-1	<p><b>Petroleum Soil Disposal (non-hazardous):</b> Acquire a permitted disposal facility approval with soil stockpile disposal sample results that will be collected by the contractor and analyzed for the appropriate disposal facility parameters at a certified analytical laboratory. Load stockpile material, transport to and dispose of at an off-site, certified disposal facility as non-hazardous material <b>for certified destruction or reuse facility</b> in accordance with the plans, specifications and all State and Federal Regulations.</p> <p>The Contractor is required to provide detailed manifests for the transportation and disposal of the soils. These documents shall include, at a minimum, the license plate number of each truck and the time and date that the trucks leave the site, the weight of each load delivered and the time and date of delivery. Payment for this work will be made at the contract unit price per ton of soil disposed of at the disposal facility in accordance with all State and Federal Regulations.</p>
AT-2	<p><b>Mercury Soil Disposal (non-hazardous):</b> Acquire permitted disposal facility approval with soil stockpile disposal sample results that will be collected by the contractor and analyzed for the appropriate disposal facility parameters at a certified analytical laboratory. Load stockpile material, transport to and dispose of at an off-site, certified disposal facility as non-hazardous material <b>for certified destruction or reuse facility</b> in accordance with the plans, specifications and all State and Federal Regulations.</p> <p>The Contractor is required to provide detailed manifests for the transportation and disposal of the soils. These documents shall include, at a minimum, the license plate number of each truck and the time and date that the trucks leave the site, the weight of each load delivered and the time and date of delivery. Payment for this work will be made at the contract unit price per ton of soil disposed of at the disposal facility in accordance with all State and Federal Regulations.</p>

### C. UNIT PRICES

UP-1	<p><b>Petroleum Soil Disposal (non-hazardous):</b> Acquire a permitted disposal facility approval with soil stockpile disposal sample results that will be collected by the contractor and analyzed for the appropriate disposal facility parameters at a certified analytical laboratory. Load stockpile material, transport to and dispose of at an off-site, certified disposal facility as non-hazardous material <b>for reuse at a landfill facility</b> in accordance with the plans, specifications and all State and Federal Regulations.</p> <p>The Contractor is required to provide detailed manifests for the transportation and disposal of the soils. These documents shall include, at a minimum, the license plate number of each truck and the time and date that the trucks leave the site, the weight of each load delivered and the time and date of delivery. Payment for this work will be made at the contract unit price per ton of soil disposed of at the disposal facility in accordance with all State and Federal Regulations.</p>
UP-2	<p><b>Mercury Soil Disposal (non-hazardous):</b> Acquire permitted disposal facility approval with soil stockpile disposal sample results that will be collected by the contractor and analyzed for the appropriate disposal facility parameters at a certified analytical laboratory. Load stockpile material, transport to and dispose of at an off-site, certified disposal facility as non-hazardous material <b>for reuse at a landfill facility</b> in accordance with the plans, specifications and all State and Federal Regulations.</p> <p>The Contractor is required to provide detailed manifests for the transportation and disposal of the soils. These documents shall include, at a minimum, the license plate number of each truck and the time and date that the trucks leave the site, the weight of each load delivered and the time and date of delivery. Payment for this work will be made at the contract unit price per ton of soil disposed of at the disposal facility in accordance with all State and Federal Regulations.</p>
UP-3	<p><b>Mercury Soil Disposal (hazardous):</b> Acquire permitted disposal facility approval with soil stockpile disposal sample results that will be collected by the contractor and analyzed for the appropriate disposal facility parameters at a certified analytical laboratory. Load stockpile material, transport to and dispose of at an off-site, certified disposal facility as hazardous material in accordance with the plans, specifications and all State and Federal Regulations.</p> <p>The Contractor is required to provide detailed manifests for the transportation and disposal of the soils. These documents shall include, at a minimum, the license plate number of each truck and the time and date that the trucks leave the site, the weight of each load delivered and the time and date of delivery. Payment for this work will be made at the contract unit price per ton of soil disposed of at the disposal facility in accordance with all State and Federal Regulations.</p>
UP-4	<p><b>Concrete Slab Removal:</b> Excavate and remove existing concrete slab. Slab thickness estimate is 4 to 6 inches. Pricing to include removal and proper disposal/recycling at an appropriate facility.</p> <p>This work will be paid for at the contract unit price per square yard of the concrete slab as measured at the site during removal.</p>
UP-5	<p><b>Earth Excavation and Stockpile:</b> Excavate 0-4 feet of soil material beneath the former concrete slab foundation to include stockpiling on-site. This work will be paid for at the contract unit price per cubic yard of the soil material removed and stockpiled.</p>

**6.0 OTHER**

- A. The Contractor shall assume all costs associated with materials sorting, debris removal as might be required by the disposal facility, sampling and laboratory analysis as might be required by the disposal facility, transportation and disposal (the Owner will sign manifests as generator, as might be required).
- B. The Contractor shall ensure that all Contractor and subcontractor employees entering contaminated areas are appropriately trained and equipped with proper personal protective equipment (PPE). The Contractor will be responsible for providing such PPE for its employees and the employees of its subcontractors.
- C. The Contractor shall ensure that all Contractor equipment that has been in contact with contaminated soils is decontaminated at the conclusion of work and prior to leaving the site.
- D. The Contractor will be compensated in accordance with the bid units on the Bid Form based upon actual quantities required to complete the scope of work and as directed by the LEP. For those unit price items with units in 'tons' the compensation will be based upon the weights determined at the disposal facilities, or in the case of materials imported to the site, the weights documented at the origin facility. The Contractor must provide this documentation along with any request for compensation.

**END OF SECTION**

**APPENDIX A Wage Rates**

Project: Environmental Remediation/ Former Mallory Hat Factory

**Minimum Rates and Classifications  
for Heavy/Highway Construction**

**Connecticut Department of Labor  
Wage and Workplace Standards Division**

ID#: H 26412

By virtue of the authority vested in the Labor Commissioner under provisions of Section 31-53 of the General Statutes of Connecticut, as amended, the following are declared to be the prevailing rates and welfare payments and will apply only where the contract is advertised for bid within 20 days of the date on which the rates are established. Any contractor or subcontractor not obligated by agreement to pay to the welfare and pension fund shall pay this amount to each employee as part of his/her hourly wages.

Project Number: 17-15

Project Town: Danbury

FAP Number:

State Number:

Project: Environmental Remediation/ Former Mallory Hat Factory

<b>CLASSIFICATION</b>	<b>Hourly Rate</b>	<b>Benefits</b>
1) Boilermaker	33.79	34% + 8.96
1a) Bricklayer, Cement Masons, Cement Finishers, Plasterers, Stone Masons	34.72	32.15
2) Carpenters, Piledrivermen	33.53	25.66
2a) Diver Tenders	33.53	25.66

**As of:** Monday, August 05, 2019



Project: Environmental Remediation/ Former Mallory Hat Factory

3) Divers	41.99	25.66
03a) Millwrights	34.04	26.09
4) Painters: (Bridge Construction) Brush, Roller, Blasting (Sand, Water, etc.), Spray	51.00	21.80
4a) Painters: Brush and Roller	34.62	21.80
4b) Painters: Spray Only	36.62	21.80
4c) Painters: Steel Only	35.62	21.80
4d) Painters: Blast and Spray	37.62	21.80

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Project: Environmental Remediation/ Former Mallory Hat Factory

4e) Painters: Tanks, Tower and Swing	36.62	21.80
5) Electrician (Trade License required: E-1,2 L-5,6 C-5,6 T-1,2 L-1,2 V-1,2,7,8,9)	39.62	27.25+3% of gross wage
6) Ironworkers: Ornamental, Reinforcing, Structural, and Precast Concrete Erection	36.67	35.77 + a
7) Plumbers (Trade License required: (P-1,2,6,7,8,9 J-1,2,3,4 SP-1,2) and Pipefitters (Including HVAC Work) (Trade License required: S-1,2,3,4,5,6,7,8 B-1,2,3,4 D-1,2,3,4 G-1, G-2, G-8, G-9)	43.62	32.06
----LABORERS-----		
8) Group 1: Laborer (Unskilled), Common or General, acetylene burner, concrete specialist	30.75	20.84
9) Group 2: Chain saw operators, fence and guard rail erectors, pneumatic tool operators, powdermen	31.00	20.84

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Project: Environmental Remediation/ Former Mallory Hat Factory

10) Group 3: Pipelayers	31.25	20.84
11) Group 4: Jackhammer/Pavement breaker (handheld); mason tenders (cement/concrete), catch basin builders, asphalt rakers, air track operators, block paver, curb setter and forklift operators	31.25	20.84
12) Group 5: Toxic waste removal (non-mechanical systems)	32.75	20.84
13) Group 6: Blasters	32.50	20.84
Group 7: Asbestos/lead removal, non-mechanical systems (does not include leaded joint pipe)	31.75	20.84
Group 8: Traffic control signalmen	18.00	20.84
Group 9: Hydraulic Drills	29.30	18.90

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Project: Environmental Remediation/ Former Mallory Hat Factory

----LABORERS (TUNNEL CONSTRUCTION, FREE AIR). Shield Drive and  
Liner Plate Tunnels in Free Air.----

13a) Miners, Motormen, Mucking Machine Operators, Nozzle Men, Grout Men, Shaft & Tunnel Steel & Rodmen, Shield & Erector, Arm Operator, Cable Tenders	32.98	20.84 + a
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13b) Brakemen, Trackmen	32.01	20.84 + a
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----CLEANING, CONCRETE AND CAULKING TUNNEL----

14) Concrete Workers, Form Movers, and Strippers	32.01	20.84 + a
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15) Form Erectors	32.34	20.84 + a
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----ROCK SHAFT LINING, CONCRETE, LINING OF SAME AND TUNNEL  
IN FREE AIR:----

*As of:* Monday, August 05, 2019

Project: Environmental Remediation/ Former Mallory Hat Factory

16) Brakemen, Trackmen, Tunnel Laborers, Shaft Laborers	32.01	20.84 + a
17) Laborers Topside, Cage Tenders, Bellman	31.90	20.84 + a
18) Miners	32.98	20.84 + a
----TUNNELS, CAISSON AND CYLINDER WORK IN COMPRESSED AIR: ----		
18a) Blaster	39.47	20.84 + a
19) Brakemen, Trackmen, Groutman, Laborers, Outside Lock Tender, Gauge Tenders	39.27	20.84 + a
20) Change House Attendants, Powder Watchmen, Top on Iron Bolts	37.29	20.84 + a

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Project: Environmental Remediation/ Former Mallory Hat Factory

21) Mucking Machine Operator	40.06	20.84 + a
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----TRUCK DRIVERS----(\*see note below)

Two axle trucks	29.51	24.52 + a
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Three axle trucks; two axle ready mix	29.62	24.52 + a
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Three axle ready mix	29.67	24.52 + a
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Four axle trucks, heavy duty trailer (up to 40 tons)	29.72	24.52 + a
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Four axle ready-mix	29.77	24.52 + a
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Heavy duty trailer (40 tons and over)	29.98	24.52 + a
Specialized earth moving equipment other than conventional type on-the road trucks and semi-trailer (including Euclids)	29.77	24.52 + a
----POWER EQUIPMENT OPERATORS----		
Group 1: Crane handling or erecting structural steel or stone, hoisting engineer (2 drums or over), front end loader (7 cubic yards or over), Work Boat 26 ft. & Over, Tunnel Boring Machines. (Trade License Required)	40.97	24.80 + a
Group 2: Cranes (100 ton rate capacity and over); Excavator over 2 cubic yards; Piledriver (\$3.00 premium when operator controls hammer); Bauer Drill/Caisson. (Trade License Required)	40.64	24.80 + a
Group 3: Excavator/Backhoe under 2 cubic yards; Cranes (under 100 ton rated capacity), Gradall; Master Mechanic; Hoisting Engineer (all types of equipment where a drum and cable are used to hoist or drag material regardless of motive power of operation), Rubber Tire Excavator (Drott-1085 or similar); Grader Operator; Bulldozer Fine Grade (slopes, shaping, laser or GPS, etc.). (Trade License Required)	39.88	24.80 + a
Group 4: Trenching Machines; Lighter Derrick; Concrete Finishing Machine; CMI Machine or Similar; Koehring Loader (Skooper)	39.48	24.80 + a

Project: Environmental Remediation/ Former Mallory Hat Factory

Group 5: Specialty Railroad Equipment; Asphalt Paver; Asphalt Spreader; Asphalt Reclaiming Machine; Line Grinder; Concrete Pumps; Drills with Self Contained Power Units; Boring Machine; Post Hole Digger; Auger; Pounder; Well Digger; Milling Machine (over 24" Mandrell)	38.87	24.80 + a
Group 5 continued: Side Boom; Combination Hoe and Loader; Directional Driller.	38.87	24.80 + a
Group 6: Front End Loader (3 up to 7 cubic yards); Bulldozer (rough grade dozer).	38.55	24.80 + a
Group 7: Asphalt Roller; Concrete Saws and Cutters (ride on types); Vermeer Concrete Cutter; Stump Grinder; Scraper; Snooper; Skidder; Milling Machine (24" and Under Mandrel).	38.20	24.80 + a
Group 8: Mechanic, Grease Truck Operator, Hydroblaster, Barrier Mover, Power Stone Spreader; Welder; Work Boat under 26 ft.; Transfer Machine.	37.79	24.80 + a
Group 9: Front End Loader (under 3 cubic yards), Skid Steer Loader regardless of attachments (Bobcat or Similar); Fork Lift, Power Chipper; Landscape Equipment (including hydroseeder).	37.34	24.80 + a
Group 10: Vibratory Hammer, Ice Machine, Diesel and Air Hammer, etc.	35.24	24.80 + a

*As of:*

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Project: Environmental Remediation/ Former Mallory Hat Factory

Group 11: Conveyor, Earth Roller; Power Pavement Breaker (whiphammer), Robot Demolition Equipment.	35.24	24.80 + a
Group 12: Wellpoint Operator.	35.18	24.80 + a
Group 13: Compressor Battery Operator.	34.58	24.80 + a
Group 14: Elevator Operator; Tow Motor Operator (Solid Tire No Rough Terrain).	33.41	24.80 + a
Group 15: Generator Operator; Compressor Operator; Pump Operator; Welding Machine Operator; Heater Operator.	32.99	24.80 + a
Group 16: Maintenance Engineer/Oiler	32.32	24.80 + a
Group 17: Portable asphalt plant operator; portable crusher plant operator; portable concrete plant operator.	36.76	24.80 + a

*As of:*

Monday, August 05, 2019

Project: Environmental Remediation/ Former Mallory Hat Factory

Group 18: Power Safety Boat; Vacuum Truck; Zim Mixer; Sweeper; (minimum for any job requiring CDL license).	34.26	24.80 + a
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\*\*NOTE: SEE BELOW

---LINE CONSTRUCTION---(Railroad Construction and Maintenance)---

20) Lineman, Cable Splicer, Technician	48.19	6.5% + 22.00
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21) Heavy Equipment Operator	42.26	6.5% + 19.88
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22) Equipment Operator, Tractor Trailer Driver, Material Men	40.96	6.5% + 19.21
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23) Driver Groundmen	26.50	6.5% + 9.00
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*As of:* Monday, August 05, 2019

Project: Environmental Remediation/ Former Mallory Hat Factory

23a) Truck Driver	40.96	6.5% + 17.76
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---LINE CONSTRUCTION---

24) Driver Groundmen	30.92	6.5% + 9.70
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25) Groundmen	22.67	6.5% + 6.20
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26) Heavy Equipment Operators	37.10	6.5% + 10.70
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27) Linemen, Cable Splicers, Dynamite Men	41.22	6.5% + 12.20
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28) Material Men, Tractor Trailer Drivers, Equipment Operators	35.04	6.5% + 10.45
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Project: Environmental Remediation/ Former Mallory Hat Factory

01) Asbestos/Toxic Waste Removal Laborers: Asbestos removal and encapsulation (except its removal from mechanical systems which are not to be scrapped), toxic waste removers, blasters. **\*\*See Laborers Group 5 and 7\*\***

Project: Environmental Remediation/ Former Mallory Hat Factory

*Welders: Rate for craft to which welding is incidental.*

*\*Note: Hazardous waste removal work receives additional \$1.25 per hour for truck drivers.*

*\*\*Note: Hazardous waste premium \$3.00 per hour over classified rate*

***ALL Cranes: When crane operator is operating equipment that requires a fully licensed crane operator to operate he receives an extra \$4.00 premium in addition to the hourly wage rate and benefit contributions:***

***1) Crane handling or erecting structural steel or stone; hoisting engineer (2 drums or over)***

***2) Cranes (100 ton rate capacity and over) Bauer Drill/Caisson***

***3) Cranes (under 100 ton rated capacity)***

*Crane with 150 ft. boom (including jib) - \$1.50 extra*

*Crane with 200 ft. boom (including jib) - \$2.50 extra*

*Crane with 250 ft. boom (including jib) - \$5.00 extra*

*Crane with 300 ft. boom (including jib) - \$7.00 extra*

*Crane with 400 ft. boom (including jib) - \$10.00 extra*

All classifications that indicate a percentage of the fringe benefits must be calculated at the percentage rate times the "base hourly rate".

Apprentices duly registered under the Commissioner of Labor's regulations on "Work Training Standards for Apprenticeship and Training Programs" Section 31-51-d-1 to 12, are allowed to be paid the appropriate percentage of the prevailing journeymen hourly base and the full fringe benefit rate, providing the work site ratio shall not be less than one full-time journeyman instructing and supervising the work of each apprentice in a specific trade.

*~~Connecticut General Statute Section 31-55a: Annual Adjustments to wage rates by contractors doing state work ~~*

*The Prevailing wage rates applicable to this project are subject to annual adjustments each July 1st for the duration of the project.*

*Each contractor shall pay the annual adjusted prevailing wage rate that is in effect each July 1st, as posted by the Department of Labor.*

*It is the contractor's responsibility to obtain the annual adjusted prevailing wage rate increases directly from the Department of Labor's website.*

*The annual adjustments will be posted on the Department of Labor's Web page: [www.ct.gov/dol](http://www.ct.gov/dol).*

*The Department of Labor will continue to issue the initial prevailing wage rate schedule to the Contracting Agency for the project.*

*All subsequent annual adjustments will be posted on our Web Site for contractor access.*

*Contracting Agencies are under no obligation pursuant to State labor law to pay any increase due to the annual adjustment provision.*

**As of:** Monday, August 05, 2019

Project: Environmental Remediation/ Former Mallory Hat Factory

*Effective October 1, 2005 - Public Act 05-50: any person performing the work of any mechanic, laborer, or worker shall be paid prevailing wage*

All Person who perform work ON SITE must be paid prevailing wage for the appropriate mechanic, laborer, or worker classification.

All certified payrolls must list the hours worked and wages paid to All Persons who perform work ON SITE regardless of their ownership i.e.: (Owners, Corporate Officers, LLC Members, Independent Contractors, et. al)

Reporting and payment of wages is required regardless of any contractual relationship alleged to exist between the contractor and such person.

**~~Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clause (29 CFR 5.5 (a) (1) (ii)).**

Please direct any questions which you may have pertaining to classification of work and payment of prevailing wages to the Wage and Workplace Standards Division, telephone (860)263-6790.

*As of:*

Monday, August 05, 2019



Opportunity \* Guidance \* Support



# **THIS IS A PUBLIC WORKS PROJECT**

**Covered by the**

# **PREVAILING WAGE LAW**

**CT General Statutes Section 31-53**

**If you have QUESTIONS regarding your wages  
CALL (860) 263-6790**

Section 31-55 of the CT State Statutes requires every contractor or subcontractor performing work for the state to post in a prominent place the prevailing wages as determined by the Labor Commissioner.

**Sec. 31-53b. Construction safety and health course. New miner training program. Proof of completion required for mechanics, laborers and workers on public works projects. Enforcement. Regulations. Exceptions.** (a) Each contract for a public works project entered into on or after July 1, 2009, by the state or any of its agents, or by any political subdivision of the state or any of its agents, described in subsection (g) of section 31-53, shall contain a provision requiring that each contractor furnish proof with the weekly certified payroll form for the first week each employee begins work on such project that any person performing the work of a mechanic, laborer or worker pursuant to the classifications of labor under section 31-53 on such public works project, pursuant to such contract, has completed a course of at least ten hours in duration in construction safety and health approved by the federal Occupational Safety and Health Administration or, has completed a new miner training program approved by the Federal Mine Safety and Health Administration in accordance with 30 CFR 48 or, in the case of telecommunications employees, has completed at least ten hours of training in accordance with 29 CFR 1910.268.

(b) Any person required to complete a course or program under subsection (a) of this section who has not completed the course or program shall be subject to removal from the worksite if the person does not provide documentation of having completed such course or program by the fifteenth day after the date the person is found to be in noncompliance. The Labor Commissioner or said commissioner's designee shall enforce this section.

(c) Not later than January 1, 2009, the Labor Commissioner shall adopt regulations, in accordance with the provisions of chapter 54, to implement the provisions of subsections (a) and (b) of this section. Such regulations shall require that the ten-hour construction safety and health courses required under subsection (a) of this section be conducted in accordance with federal Occupational Safety and Health Administration Training Institute standards, or in accordance with Federal Mine Safety and Health Administration Standards or in accordance with 29 CFR 1910.268, as appropriate. The Labor Commissioner shall accept as sufficient proof of compliance with the provisions of subsection (a) or (b) of this section a student course completion card issued by the federal Occupational Safety and Health Administration Training Institute, or such other proof of compliance said commissioner deems appropriate, dated no earlier than five years before the commencement date of such public works project.

(d) This section shall not apply to employees of public service companies, as defined in section 16-1, or drivers of commercial motor vehicles driving the vehicle on the public works project and delivering or picking up cargo from public works projects provided they perform no labor relating to the project other than the loading and unloading of their cargo.

(P.A. 06-175, S. 1; P.A. 08-83, S. 1.)



History: P.A. 08-83 amended Subsec. (a) by making provisions applicable to public works project contracts entered into on or after July 1, 2009, replacing provision re total cost of work with reference to Sec. 31-53(g), requiring proof in certified payroll form that new mechanic, laborer or worker has completed a 10-hour or more construction safety course and adding provision re new miner training program, amended Subsec. (b) by substituting "person" for "employee" and adding "or program", amended Subsec. (c) by adding "or in accordance with Federal Mine Safety and Health Administration Standards" and setting new deadline of January 1, 2009, deleted former Subsec. (d) re "public building", added new Subsec. (d) re exemptions for public service company employees and delivery drivers who perform no labor other than delivery and made conforming and technical changes, effective January 1, 2009.

# **Informational Bulletin**

## **THE 10-HOUR OSHA CONSTRUCTION SAFETY AND HEALTH COURSE**

(applicable to public building contracts entered into *on or after July 1, 2007*, where the total cost of all work to be performed is at least \$100,000)

- (1) This requirement was created by Public Act No. 06-175, which is codified in Section 31-53b of the Connecticut General Statutes (pertaining to the prevailing wage statutes);
- (2) The course is required for public building construction contracts (projects funded in whole or in part by the state or any political subdivision of the state) entered into on or after July 1, 2007;
- (3) It is required of private employees (not state or municipal employees) and apprentices who perform manual labor for a general contractor or subcontractor on a public building project where the total cost of all work to be performed is at least \$100,000;
- (4) The ten-hour construction course pertains to the ten-hour Outreach Course conducted in accordance with federal OSHA Training Institute standards, and, for telecommunications workers, a ten-hour training course conducted in accordance with federal OSHA standard, 29 CFR 1910.268;
- (5) The internet website for the federal OSHA Training Institute is [http://www.osha.gov/fso/ote/training/edcenters/fact\\_sheet.html](http://www.osha.gov/fso/ote/training/edcenters/fact_sheet.html);
- (6) The statutory language leaves it to the contractor and its employees to determine who pays for the cost of the ten-hour Outreach Course;
- (7) Within 30 days of receiving a contract award, a general contractor must furnish proof to the Labor Commissioner that all employees and apprentices performing manual labor on the project will have completed such a course;
- (8) Proof of completion may be demonstrated through either: (a) the presentation of a *bona fide* student course completion card issued by the federal OSHA Training Institute; *or* (2) the presentation of documentation provided to an employee by a trainer certified by the Institute pending the actual issuance of the completion card;
- (9) Any card with an issuance date more than 5 years prior to the commencement date of the construction project shall not constitute proof of compliance;

- (10) Each employer shall affix a copy of the construction safety course completion card to the certified payroll submitted to the contracting agency in accordance with Conn. Gen. Stat. § 31-53(f) on which such employee's name first appears;
- (11) Any employee found to be in non-compliance shall be subject to removal from the worksite if such employee does not provide satisfactory proof of course completion to the Labor Commissioner by the fifteenth day after the date the employee is determined to be in noncompliance;
- (12) Any such employee who is determined to be in noncompliance may continue to work on a public building construction project for a maximum of fourteen consecutive calendar days while bringing his or her status into compliance;
- (13) The Labor Commissioner may make complaint to the prosecuting authorities regarding any employer or agent of the employer, or officer or agent of the corporation who files a false certified payroll with respect to the status of an employee who is performing manual labor on a public building construction project;
- (14) The statute provides the minimum standards required for the completion of a safety course by manual laborers on public construction contracts; any contractor can exceed these minimum requirements; and
- (15) Regulations clarifying the statute are currently in the regulatory process, and shall be posted on the CTDOL website as soon as they are adopted in final form.
- (16) Any questions regarding this statute may be directed to the Wage and Workplace Standards Division of the Connecticut Labor Department via the internet website of <http://www.ctdol.state.ct.us/wgwkstnd/wgemenu.htm>; or by telephone at (860)263-6790.

**THE ABOVE INFORMATION IS PROVIDED EXCLUSIVELY AS AN EDUCATIONAL RESOURCE, AND IS NOT INTENDED AS A SUBSTITUTE FOR LEGAL INTERPRETATIONS WHICH MAY ULTIMATELY ARISE CONCERNING THE CONSTRUCTION OF THE STATUTE OR THE REGULATIONS.**

November 29, 2006

**Notice**  
**To All Mason Contractors and Interested Parties**  
**Regarding Construction Pursuant to Section 31-53 of the**  
**Connecticut General Statutes (Prevailing Wage)**

The Connecticut Labor Department Wage and Workplace Standards Division is empowered to enforce the prevailing wage rates on projects covered by the above referenced statute.

Over the past few years the Division has withheld enforcement of the rate in effect for workers who operate a forklift on a prevailing wage rate project due to a potential jurisdictional dispute.

The rate listed in the schedules and in our Occupational Bulletin (see enclosed) has been as follows:

**Forklift Operator:**

- **Laborers (Group 4) Mason Tenders** - operates forklift solely to assist a mason to a maximum height of nine feet only.
- **Power Equipment Operator (Group 9)** - operates forklift to assist any trade and to assist a mason to a height over nine feet.

The U.S. Labor Department conducted a survey of rates in Connecticut but it has not been published and the rate in effect remains as outlined in the above Occupational Bulletin.

***Since this is a classification matter and not one of jurisdiction, effective January 1, 2007 the Connecticut Labor Department will enforce the rate on each schedule in accordance with our statutory authority.***

Your cooperation in filing appropriate and accurate certified payrolls is appreciated.

## STATUTE 31-55a

### - SPECIAL NOTICE -

**To: All State and Political Subdivisions, Their Agents, and Contractors**

**Connecticut General Statute 31-55a - Annual adjustments to wage rates by contractors doing state work.**

*Each contractor that is awarded a contract on or after October 1, 2002, for (1) the construction of a state highway or bridge that falls under the provisions of section 31-54 of the general statutes, or (2) the construction, remodeling, refinishing, refurbishing, rehabilitation, alteration or repair of any public works project that falls under the provisions of section 31-53 of the general statutes shall contact the Labor Commissioner on or before July first of each year, for the duration of such contract, to ascertain the prevailing rate of wages on an hourly basis and the amount of payment or contributions paid or payable on behalf of each mechanic, laborer or worker employed upon the work contracted to be done, and shall make any necessary adjustments to such prevailing rate of wages and such payment or contributions paid or payable on behalf of each such employee, effective each July first.*

- The prevailing wage rates applicable to any contract or subcontract awarded on or after October 1, 2002 are subject to annual adjustments each July 1st for the duration of any project which was originally advertised for bids on or after October 1, 2002.
- Each contractor affected by the above requirement shall pay the annual adjusted prevailing wage rate that is in effect each July 1st, as posted by the Department of Labor.
- It is the **contractor's** responsibility to obtain the annual adjusted prevailing wage rate increases directly from the Department of Labor's Web Site. The annual adjustments will be posted on the Department of Labor Web page: [www.ctdol.state.ct.us](http://www.ctdol.state.ct.us). For those without internet access, please contact the division listed below.
- The Department of Labor will continue to issue the initial prevailing wage rate schedule to the Contracting Agency for the project. All subsequent annual adjustments will be posted on our Web Site for contractor access.

**Any questions should be directed to the Contract Compliance Unit, Wage and Workplace Standards Division, Connecticut Department of Labor, 200 Folly Brook Blvd., Wethersfield, CT 06109 at (860)263-6790.**

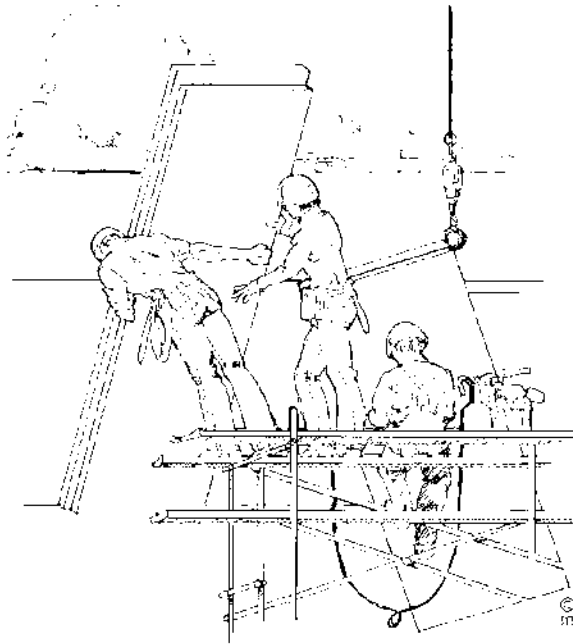
~NOTICE~

TO ALL CONTRACTING AGENCIES

Please be advised that Connecticut General Statutes Section 31-53, requires the contracting agency to certify to the Department of Labor, the total dollar amount of work to be done in connection with such public works project, regardless of whether such project consists of one or more contracts.

Please find the attached “Contracting Agency Certification Form” to be completed and returned to the Department of Labor, Wage and Workplace Standards Division, Public Contract Compliance Unit.

 Inquiries can be directed to (860)263-6543.



CONNECTICUT DEPARTMENT OF LABOR  
WAGE AND WORKPLACE STANDARDS DIVISION  
CONTRACT COMPLIANCE UNIT

*CONTRACTING AGENCY CERTIFICATION FORM*

I, \_\_\_\_\_, acting in my official capacity as \_\_\_\_\_,  
authorized representative title

for \_\_\_\_\_, located at \_\_\_\_\_,  
contracting agency address

do hereby certify that the total dollar amount of work to be done in connection with  
\_\_\_\_\_, located at \_\_\_\_\_,  
project name and number address

shall be \$\_\_\_\_\_, which includes all work, regardless of whether such project  
consists of one or more contracts.

*CONTRACTOR INFORMATION*

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Authorized Representative: \_\_\_\_\_

Approximate Starting Date: \_\_\_\_\_

Approximate Completion Date: \_\_\_\_\_

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

Return To: Connecticut Department of Labor  
Wage & Workplace Standards Division  
Contract Compliance Unit  
200 Folly Brook Blvd.  
Wethersfield, CT 06109

Date Issued: \_\_\_\_\_

CONNECTICUT DEPARTMENT OF LABOR  
WAGE AND WORKPLACE STANDARDS DIVISION

**CONTRACTORS WAGE CERTIFICATION FORM**  
**Construction Manager at Risk/General Contractor/Prime Contractor**

I, \_\_\_\_\_ of \_\_\_\_\_  
Officer, Owner, Authorized Rep. Company Name

do hereby certify that the \_\_\_\_\_  
Company Name  
\_\_\_\_\_  
Street  
\_\_\_\_\_  
City

and all of its subcontractors will pay all workers on the  
\_\_\_\_\_  
Project Name and Number  
\_\_\_\_\_  
Street and City

the wages as listed in the schedule of prevailing rates required for such project (a copy of which is attached hereto).

\_\_\_\_\_  
Signed

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

\_\_\_\_\_  
Notary Public

Return to:  
Connecticut Department of Labor  
Wage & Workplace Standards Division  
200 Folly Brook Blvd.  
Wethersfield, CT 06109

*Rate Schedule Issued (Date):* \_\_\_\_\_



[New] In accordance with Section 31-53b(a) of the C.G.S. each contractor shall provide a copy of the OSHA 10 Hour Construction Safety and Health Card for each employee, to be attached to the first certified payroll on the project.

In accordance with Connecticut General Statutes, 31-53 Certified Payrolls with a statement of compliance shall be submitted monthly to the contracting agency.											<b>PAYROLL CERTIFICATION FOR PUBLIC WORKS PROJECTS</b>											Connecticut Department of Labor Wage and Workplace Standards Division 200 Folly Brook Blvd. Wethersfield, CT 06109							
CONTRACTOR NAME AND ADDRESS:											SUBCONTRACTOR NAME & ADDRESS						WORKER'S COMPENSATION INSURANCE CARRIER												
PAYROLL NUMBER		Week-Ending Date		PROJECT NAME & ADDRESS									POLICY #						EFFECTIVE DATE: EXPIRATION DATE:										
PERSON/WORKER, ADDRESS and SECTION	APPR RATE %	MALE/FEMALE AND RACE*	WORK CLASSIFICATION	DAY AND DATE							Total ST Hours	BASE HOURLY RATE	TYPE OF FRINGE BENEFITS Per Hour 1 through 6 (see back)	GROSS PAY FOR ALL WORK PERFORMED THIS WEEK	TOTAL DEDUCTIONS				GROSS PAY FOR THIS PREVAILING RATE JOB	CHECK # AND NET PAY									
				S	M	T	W	TH	F	S					Total O/T Hours	TOTAL FRINGE BENEFIT PLAN CASH	FICA	FEDERAL WITH-HOLDING			STATE WITH-HOLDING	LIST OTHER							
Trade License Type & Number - OSHA 10 Certification Number				HOURS WORKED EACH DAY																									
											\$	1. \$					\$	2. \$	3. \$	4. \$	5. \$	6. \$	\$	1. \$	2. \$	3. \$	4. \$	5. \$	6. \$
											\$	Base Rate	3. \$	4. \$	5. \$	6. \$	\$	Base Rate	3. \$	4. \$	5. \$	6. \$	\$	Base Rate	3. \$	4. \$	5. \$	6. \$	
											\$	Base Rate	3. \$	4. \$	5. \$	6. \$	\$	Base Rate	3. \$	4. \$	5. \$	6. \$	\$	Base Rate	3. \$	4. \$	5. \$	6. \$	
											\$	Base Rate	3. \$	4. \$	5. \$	6. \$	\$	Base Rate	3. \$	4. \$	5. \$	6. \$	\$	Base Rate	3. \$	4. \$	5. \$	6. \$	

12/9/2013 \*IF REQUIRED  
WWS-CPI

\*SEE REVERSE SIDE

PAGE NUMBER \_\_\_\_ OF

**\*FRINGE BENEFITS EXPLANATION (P):**

Bona fide benefits paid to approved plans, funds or programs, except those required by Federal or State Law (unemployment tax, worker’s compensation, income taxes, etc.).

Please specify the type of benefits provided:

- 1) Medical or hospital care \_\_\_\_\_ 4) Disability \_\_\_\_\_
- 2) Pension or retirement \_\_\_\_\_ 5) Vacation, holiday \_\_\_\_\_
- 3) Life Insurance \_\_\_\_\_ 6) Other (please specify) \_\_\_\_\_

**CERTIFIED STATEMENT OF COMPLIANCE**

For the week ending date of \_\_\_\_\_,

I, \_\_\_\_\_ of \_\_\_\_\_, (hereafter known as Employer) in my capacity as \_\_\_\_\_ (title) do hereby certify and state:

**Section A:**

1. All persons employed on said project have been paid the full weekly wages earned by them during the week in accordance with Connecticut General Statutes, section 31-53, as amended. Further, I hereby certify and state the following:

- a) The records submitted are true and accurate;
- b) The rate of wages paid to each mechanic, laborer or workman and the amount of payment or contributions paid or payable on behalf of each such person to any employee welfare fund, as defined in Connecticut General Statutes, section 31-53 (h), are not less than the prevailing rate of wages and the amount of payment or contributions paid or payable on behalf of each such person to any employee welfare fund, as determined by the Labor Commissioner pursuant to subsection Connecticut General Statutes, section 31-53 (d), and said wages and benefits are not less than those which may also be required by contract;
- c) The Employer has complied with all of the provisions in Connecticut General Statutes, section 31-53 (and Section 31-54 if applicable for state highway construction);
- d) Each such person is covered by a worker’s compensation insurance policy for the duration of his employment which proof of coverage has been provided to the contracting agency;
- e) The Employer does not receive kickbacks, which means any money, fee, commission, credit, gift, gratuity, thing of value, or compensation of any kind which is provided directly or indirectly, to any prime contractor, prime contractor employee, subcontractor, or subcontractor employee for the purpose of improperly obtaining or rewarding favorable treatment in connection with a prime contract or in connection with a prime contractor in connection with a subcontractor relating to a prime contractor; and
- f) The Employer is aware that filing a certified payroll which he knows to be false is a class D felony for which the employer may be fined up to five thousand dollars, imprisoned for up to five years or both.

2. OSHA~The employer shall affix a copy of the construction safety course, program or training completion document to the certified payroll required to be submitted to the contracting agency for this project on which such persons name first appears.

\_\_\_\_\_ Submitted on (Date)

(Signature) (Title)

**PAYROLL CERTIFICATION FOR PUBLIC WORKS PROJECTS**

Week-Ending Date:  
Contractor or Subcontractor Business Name:

**WEEKLY PAYROLL**

PERSON/WORKER, ADDRESS and SECTION	APPR RATE %	MALE/ FEMALE AND RACE*	WORK CLASSIFICATION  Trade License Type & Number - OSHA 10 Certification Number	DAY AND DATE							Total ST Hours  Total O/T Hours	BASE HOURLY RATE  TOTAL FRINGE BENEFIT PLAN CASH	TYPE OF FRINGE BENEFITS Per Hour 1 through 6 (see back)	GROSS PAY FOR ALL WORK PERFORMED THIS WEEK	TOTAL DEDUCTIONS				GROSS PAY FOR THIS PREVAILING RATE JOB	CHECK # AND NET PAY
				S	M	T	W	TH	F	S					FICA	FEDERAL WITH- HOLDING	STATE WITH- HOLDING	OTHER		
				HOURS WORKED EACH DAY																

\*IF REQUIRED

[New] In accordance with Section 31-53b(a) of the C.G.S. each contractor shall provide a copy of the OSHA 10 Hour Construction Safety and Health Card for each employee, to be attached to the first certified payroll on the project.

PAYROLL CERTIFICATION FOR PUBLIC WORKS PROJECTS											Connecticut Department of Labor Wage and Workplace Standards Division 200 Folly Brook Blvd. Wethersfield, CT 06109											
In accordance with Connecticut General Statutes, 31-53 Certified Payrolls with a statement of compliance shall be submitted monthly to the contracting agency.											WEEKLY PAYROLL											
CONTRACTOR NAME AND ADDRESS: Landon Corporation, 15 Connecticut Avenue, Northford, CT 06472											SUBCONTRACTOR NAME & ADDRESS XYZ Corporation 2 Main Street Yantic, CT 06389						WORKER'S COMPENSATION INSURANCE CARRIER Travelers Insurance Company POLICY # #BAC8888928 EFFECTIVE DATE: 1/1/09 EXPIRATION DATE: 12/31/09					
PAYROLL NUMBER	Week-Ending Date	PROJECT NAME & ADDRESS DOT 105-296, Route 82									Total ST Hours	BASE HOURLY RATE	TYPE OF FRINGE BENEFITS Per Hour 1 through 6 (see back)	GROSS PAY FOR ALL WORK PERFORMED THIS WEEK	TOTAL DEDUCTIONS				GROSS PAY FOR THIS PREVAILING RATE JOB	CHECK # AND NET PAY		
															FEDERAL	STATE	LIST OTHER					
PERSON/WORKER, ADDRESS and SECTION	APPR RATE %	MALE/FEMALE AND RACE*	WORK CLASSIFICATION	DAY AND DATE							Total O/T Hours	TOTAL FRINGE BENEFIT PLAN CASH			FICA	WITH-HOLDING	WITH-HOLDING	LIST OTHER				
			Trade License Type & Number - OSHA 10 Certification Number	S	M	T	W	TH	F	S												
Robert Craft 81 Maple Street Willimantic, CT 06226		M/C	Electrical Lineman E-1 1234567 Owner OSHA 123456		8	8	8	8	8			S-TIME 40 O-TIME	\$ 30.75 Base Rate \$ 8.82 Cash Fringe	1. \$ 5.80 2. \$ 3. \$ 2.01 4. \$ 5. \$ 6. \$	\$1,582.80				P-xxxx	\$1,582.80	#123 \$ xxx.xx	
Ronald Jones 212 Elm Street Norwich, CT 06360	65%	M/B	Electrical Apprentice OSHA 234567		8	8	8	8	8			S-TIME 40 O-TIME	\$ 19.99 Base Rate \$ 16.63 Cash Fringe	1. \$ 2. \$ 3. \$ 4. \$ 5. \$ 6. \$	\$1,464.80	xx.xx	xxx.xx	xx.xx	G-xxx	\$1,464.80	#124 \$xxx.xx	
Franklin T. Smith 234 Washington Rd. New London, CT 06320 SECTION B		M/H	Project Manager			8						S-TIME 8 O-TIME	\$ Base Rate \$ Cash Fringe	1. \$ 2. \$ 3. \$ 4. \$ 5. \$ 6. \$	\$1,500.00	xx.xx	xx.xx	xx.xx	M-xx.x		#125 xxx.xx	
												S-TIME O-TIME	\$ Base Rate \$ Cash Fringe	1. \$ 2. \$ 3. \$ 4. \$ 5. \$ 6. \$								

7/13/2009 \*IF REQUIRED  
WWS-CP1

\*SEE REVERSE SIDE

PAGE NUMBER 1 OF 2

OSHA 10 ~ATTACH CARD TO 1ST CERTIFIED PAYROLL

**\*FRINGE BENEFITS EXPLANATION (P):**

Bona fide benefits paid to approved plans, funds or programs, except those required by Federal or State Law (unemployment tax, worker's compensation, income taxes, etc.).

Please specify the type of benefits provided:

- 1) Medical or hospital care Blue Cross 4) Disability \_\_\_\_\_
- 2) Pension or retirement \_\_\_\_\_ 5) Vacation, holiday \_\_\_\_\_
- 3) Life Insurance Utopia 6) Other (please specify) \_\_\_\_\_

**CERTIFIED STATEMENT OF COMPLIANCE**

For the week ending date of 9/26/09,

I, Robert Craft of XYZ Corporation, (hereafter known as

Employer) in my capacity as Owner (title) do hereby certify and state:

**Section A:**

1. All persons employed on said project have been paid the full weekly wages earned by them during the week in accordance with Connecticut General Statutes, section 31-53, as amended. Further, I hereby certify and state the following:

- a) The records submitted are true and accurate;
- b) The rate of wages paid to each mechanic, laborer or workman and the amount of payment or contributions paid or payable on behalf of each such employee to any employee welfare fund, as defined in Connecticut General Statutes, section 31-53 (h), are not less than the prevailing rate of wages and the amount of payment or contributions paid or payable on behalf of each such employee to any employee welfare fund, as determined by the Labor Commissioner pursuant to subsection Connecticut General Statutes, section 31-53 (d), and said wages and benefits are not less than those which may also be required by contract;
- c) The Employer has complied with all of the provisions in Connecticut General Statutes, section 31-53 (and Section 31-54 if applicable for state highway construction);
- d) Each such employee of the Employer is covered by a worker's compensation insurance policy for the duration of his employment which proof of coverage has been provided to the contracting agency;
- e) The Employer does not receive kickbacks, which means any money, fee, commission, credit, gift, gratuity, thing of value, or compensation of any kind which is provided directly or indirectly, to any prime contractor, prime contractor employee, subcontractor, or subcontractor employee for the purpose of improperly obtaining or rewarding favorable treatment in connection with a prime contract or in connection with a prime contractor in connection with a subcontractor relating to a prime contractor; and
- f) The Employer is aware that filing a certified payroll which he knows to be false is a class D felony for which the employer may be fined up to five thousand dollars, imprisoned for up to five years or both.

2. OSHA~The employer shall affix a copy of the construction safety course, program or training completion document to the certified payroll required to be submitted to the contracting agency for this project on which such employee's name first appears.

Robert Craft      owner      10/2/09  
 (Signature)      (Title)      Submitted on (Date)

**Section B: Applies to CONNDOT Projects ONLY**

That pursuant to CONNDOT contract requirements for reporting purposes only, all employees listed under Section B who performed work on this project are not covered under the prevailing wage requirements defined in Connecticut General Statutes Section 31-53.

Robert Craft      owner      10/2/09  
 (Signature)      (Title)      Submitted on (Date)

Note: CTDOL will assume all hours worked were performed under Section A unless clearly delineated as Section B WWS-CP1 as such. Should an employee perform work under both Section A and Section B, the hours worked and wages paid must be segregated for reporting purposes.

**\*\*\*THIS IS A PUBLIC DOCUMENT\*\*\*  
 \*\*\*DO NOT INCLUDE SOCIAL SECURITY NUMBERS\*\*\***

## **Information Bulletin** ***Occupational Classifications***

The Connecticut Department of Labor has the responsibility to properly determine "job classification" on prevailing wage projects covered under C.G.S. Section 31-53(d).

***Note: This information is intended to provide a sample of some occupational classifications for guidance purposes only. It is not an all-inclusive list of each occupation's duties. This list is being provided only to highlight some areas where a contractor may be unclear regarding the proper classification. If unsure, the employer should seek guidelines for CTDOL.***

**Below are additional clarifications of specific job duties performed for certain classifications:**

- **ASBESTOS WORKERS**

Applies all insulating materials, protective coverings, coatings and finishes to all types of mechanical systems.

- **ASBESTOS INSULATOR**

Handle, install apply, fabricate, distribute, prepare, alter, repair, dismantle, heat and frost insulation, including penetration and fire stopping work on all penetration fire stop systems.

- **BOILERMAKERS**

Erects hydro plants, incomplete vessels, steel stacks, storage tanks for water, fuel, etc. Builds incomplete boilers, repairs heat exchanges and steam generators.

- **BRICKLAYERS, CEMENT MASONS, CEMENT FINISHERS, MARBLE MASONS, PLASTERERS, STONE MASONS, PLASTERERS. STONE MASONS, TERRAZZO WORKERS, TILE SETTERS**

Lays building materials such as brick, structural tile and concrete cinder, glass, gypsum, terra cotta block. Cuts, tools and sets marble, sets stone, finishes concrete, applies decorative steel, aluminum and plastic tile, applies cements, sand, pigment and marble chips to floors, stairways, etc.

- **CARPENTERS, MILLWRIGHTS. PILEDRIVERMEN. LATHERS. RESILEINT FLOOR LAYERS, DOCK BUILDERS, DIKERS, DIVER TENDERS**

Constructs, erects, installs and repairs structures and fixtures of wood, plywood and wallboard. Installs, assembles, dismantles, moves industrial machinery. Drives piling into ground to provide foundations for structures such as buildings and bridges, retaining walls for earth embankments, such as cofferdams. Fastens wooden, metal or rockboard lath to walls, ceilings and partitions of buildings, acoustical tile layer, concrete form builder. Applies firestopping materials on fire resistive joint systems only. Installation of curtain/window walls only where attached to wood or metal studs. Installation of insulated material of all types whether blown, nailed or attached in other ways to walls, ceilings and floors of buildings. Assembly and installation of modular furniture/furniture systems. Free-standing furniture is not covered. This includes free standing: student chairs, study top desks, book box desks, computer furniture, dictionary stand, atlas stand, wood shelving, two-position information access station, file cabinets, storage cabinets, tables, etc.

- **LABORER, CLEANING**

- The clean up of any construction debris and the general (heavy/light) cleaning, including sweeping, wash down, mopping, wiping of the construction facility and its furniture, washing, polishing, and dusting.

- **DELIVERY PERSONNEL**

- If delivery of supplies/building materials is to one common point and stockpiled there, prevailing wages are not required. If the delivery personnel are involved in the distribution of the material to multiple locations within the construction site then they would have to be paid prevailing wages for the type of work performed: laborer, equipment operator, electrician, ironworker, plumber, etc.

- An example of this would be where delivery of drywall is made to a building and the delivery personnel distribute the drywall from one "stockpile" location to further sub-locations on each floor. Distribution of material around a construction site is the job of a laborer or tradesman, and not a delivery personnel.

- **ELECTRICIANS**

Install, erect, maintenance, alteration or repair of any wire, cable, conduit, etc., which generates, transforms, transmits or uses electrical energy for light, heat, power or other purposes, including the Installation or maintenance of telecommunication, LAN wiring or computer equipment, and low voltage wiring. **\*License required per Connecticut General Statutes: E-1,2 L-5,6 C-5,6 T-1,2 L-1,2 V-1,2,7,8,9.**

- **ELEVATOR CONSTRUCTORS**

Install, erect, maintenance and repair of all types of elevators, escalators, dumb waiters and moving walks. *\*License required by Connecticut General Statutes: R-1,2,5,6.*

- **FORK LIFT OPERATOR**

Laborers Group 4) Mason Tenders - operates forklift solely to assist a mason to a maximum height of nine (9) feet only.

Power Equipment Operator Group 9 - operates forklift to assist any trade, and to assist a mason to a height over nine (9) feet.

- **GLAZIERS**

Glazing wood and metal sash, doors, partitions, and 2 story aluminum storefronts. Installs glass windows, skylights, store fronts and display cases or surfaces such as building fronts, interior walls, ceilings and table tops and metal store fronts. Installation of aluminum window walls and curtain walls is the "joint" work of glaziers and ironworkers, which require equal composite workforce.

- **IRONWORKERS**

Erection, installation and placement of structural steel, precast concrete, miscellaneous iron, ornamental iron, metal curtain wall, rigging and reinforcing steel. Handling, sorting, and installation of reinforcing steel (rebar). Metal bridge rail (traffic), metal bridge handrail, and decorative security fence installation. Installation of aluminum window walls and curtain walls is the "joint" work of glaziers and ironworkers which require equal composite workforce.

- **INSULATOR**

- Installing fire stopping systems/materials for "Penetration Firestop Systems": transit to cables, electrical conduits, insulated pipes, sprinkler pipe penetrations, ductwork behind radiation, electrical cable trays, fire rated pipe penetrations, natural polypropylene, HVAC ducts, plumbing bare metal, telephone and communication wires, and boiler room ceilings.

- **LABORERS**

Acetylene burners, asphalt rakers, chain saw operators, concrete and power buggy operator, concrete saw operator, fence and guard rail erector (except metal bridge rail (traffic), decorative security fence (non-metal)).



installation.), hand operated concrete vibrator operator, mason tenders, pipelayers (installation of storm drainage or sewage lines on the street only), pneumatic drill operator, pneumatic gas and electric drill operator, powermen and wagon drill operator, air track operator, block paver, curb setters, blasters, concrete spreaders.

- **PAINTERS**

Maintenance, preparation, cleaning, blasting (water and sand, etc.), painting or application of any protective coatings of every description on all bridges and appurtenances of highways, roadways, and railroads. Painting, decorating, hardwood finishing, paper hanging, sign writing, scenic art work and drywall hhg for any and all types of building and residential work.

- **LEAD PAINT REMOVAL**

- Painter's Rate

1. Removal of lead paint from bridges.
2. Removal of lead paint as preparation of any surface to be repainted.
3. Where removal is on a Demolition project prior to reconstruction.

- Laborer's Rate

1. Removal of lead paint from any surface NOT to be repainted.
2. Where removal is on a *TOTAL* Demolition project only.

- **PLUMBERS AND PIPEFITTERS**

Installation, repair, replacement, alteration or maintenance of all plumbing, heating, cooling and piping. ***\*License required per Connecticut General Statutes: P-1,2,6,7,8,9 J-1,2,3,4 SP-1,2 S-1,2,3,4,5,6,7,8 B-1,2,3,4 D-1,2,3,4.***

- **POWER EQUIPMENT OPERATORS**

Operates several types of power construction equipment such as compressors, pumps, hoists, derricks, cranes, shovels, tractors, scrapers or motor graders, etc. Repairs and maintains equipment. ***\*License required, crane operators only, per Connecticut General Statutes.***

- **ROOFERS**

Covers roofs with composition shingles or sheets, wood shingles, slate or asphalt and gravel to waterproof roofs, including preparation of surface. (demolition or removal of any type of roofing and or clean-up of any and all areas where a roof is to be relaid.)

- **SHEETMETAL WORKERS**

Fabricate, assembles, installs and repairs sheetmetal products and equipment in such areas as ventilation, air-conditioning, warm air heating, restaurant equipment, architectural sheet metal work, sheetmetal roofing, and aluminum gutters. Fabrication, handling, assembling, erecting, altering, repairing, etc. of coated metal material panels and composite metal material panels when used on building exteriors and interiors as soffits, fascia, louvers, partitions, canopies, cornice, column covers, awnings, beam covers, cladding, sun shades, lighting troughs, spires, ornamental roofing, metal ceilings, mansards, copings, ornamental and ventilation hoods, vertical and horizontal siding panels, trim, etc. The sheet metal classification also applies to the vast variety of coated metal material panels and composite metal material panels that have evolved over the years as an alternative to conventional ferrous and non-ferrous metals like steel, iron, tin, copper, brass, bronze, aluminum, etc. Fabrication, handling, assembling, erecting, altering, repairing, etc. of architectural metal roof, standing seam roof, composite metal roof, metal and composite bathroom/toilet partitions, aluminum gutters, metal and composite lockers and shelving, kitchen equipment, and walk-in coolers. To include testing and air –balancing ancillary to installation and construction.

- **SPRINKLER FITTERS**

Installation, alteration, maintenance and repair of fire protection sprinkler systems.

***\*License required per Connecticut General Statutes: F-1,2,3,4.***

- **TILE MARBLE AND TERRAZZO FINISHERS**

Assists and tends the tile setter, marble mason and terrazzo worker in the performance of their duties.

- **TRUCK DRIVERS**

~How to pay truck drivers delivering asphalt is under REVISION~

Truck Drivers are requires to be paid prevailing wage for time spent "working" directly on the site. These drivers remain covered by the prevailing wage for any time spent transporting between the actual construction location and facilities (such as fabrication, plants, mobile factories, batch plant, borrow pits, job headquarters, tool yards, etc.) dedicated exclusively, or nearly so, to performance of the contract or project, which are so located in proximity to the actual construction location that it is reasonable to include them. ***\*License required, drivers only, per Connecticut General Statutes.***

***For example:***

- Material men and deliverymen are not covered under prevailing wage as long as they are not directly involved in the construction process. If, they unload the material, they would then be covered by prevailing wage for the classification they are performing work in: laborer, equipment operator, etc.
- Hauling material off site is not covered provided they are not dumping it at a location outlined above.
- Driving a truck on site and moving equipment or materials on site would be considered covered work, as this is part of the construction process.

➤ *Any questions regarding the proper classification should be directed to:*  
*Public Contract Compliance Unit*  
*Wage and Workplace Standards Division*  
*Connecticut Department of Labor*  
*200 Folly Brook Blvd, Wethersfield, CT 06109*  
*(860) 263-6543.*

**Connecticut Department of Labor  
Wage and Workplace Standards Division  
FOOTNOTES**

⇒ Please Note: If the “Benefits” listed on the schedule for the following occupations includes a letter(s) (+ a or + a+b for instance), refer to the information below.

Benefits to be paid at the appropriate prevailing wage rate for the listed occupation.

If the “Benefits” section for the occupation lists only a dollar amount, disregard the information below.

**Bricklayers, Cement Masons, Cement Finishers, Concrete Finishers, Stone Masons**  
(Building Construction) and  
(Residential- Hartford, Middlesex, New Haven, New London and Tolland Counties)

- a. Paid Holiday: Employees shall receive 4 hours for Christmas Eve holiday provided the employee works the regularly scheduled day before and after the holiday. Employers may schedule work on Christmas Eve and employees shall receive pay for actual hours worked in addition to holiday pay.

**Elevator Constructors: Mechanics**

- a. Paid Holidays: New Year’s Day, Memorial Day, Independence Day, Labor Day, Veterans’ Day, Thanksgiving Day, Christmas Day, plus the Friday after Thanksgiving.
- b. Vacation: Employer contributes 8% of basic hourly rate for 5 years or more of service or 6% of basic hourly rate for 6 months to 5 years of service as vacation pay credit.

**Glaziers**

- a. Paid Holidays: Labor Day and Christmas Day.

**Power Equipment Operators**  
(Heavy and Highway Construction & Building Construction)

- a. Paid Holidays: New Year’s Day, Good Friday, Memorial day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day, provided the employee works 3 days during the week in which the holiday falls, if scheduled, and if scheduled, the working day before and the working day after the holiday. Holidays falling on Saturday may be observed on Saturday, or if the employer so elects, on the preceding Friday.

**Ironworkers**

- a. Paid Holiday: Labor Day provided employee has been on the payroll for the 5 consecutive work days prior to Labor Day.

**Laborers (Tunnel Construction)**

- a. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day. No employee shall be eligible for holiday pay when he fails, without cause, to work the regular work day preceding the holiday or the regular work day following the holiday.

**Roofers**

- a. Paid Holidays: July 4<sup>th</sup>, Labor Day, and Christmas Day provided the employee is employed 15 days prior to the holiday.

**Sprinkler Fitters**

- a. Paid Holidays: Memorial Day, July 4th, Labor Day, Thanksgiving Day and Christmas Day, provided the employee has been in the employment of a contractor 20 working days prior to any such paid holiday.

**Truck Drivers**

(Heavy and Highway Construction & Building Construction)

- a. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Christmas day, and Good Friday, provided the employee has at least 31 calendar days of service and works the last scheduled day before and the first scheduled day after the holiday, unless excused.

**APPENDIX B**  
**Project Sign**

DEPARTMENT OF ECONOMIC & COMMUNITY DEVELOPMENT  
PROJECT SIGN

8'-0"

4'-0"



NAME OF THE PROJECT



**NAME OF THE SPONSOR/DEVELOPER**

Constructed in cooperation with the

STATE OF CONNECTICUT  
NED LAMONT, GOVERNOR

Department of Economic and Community Development  
David Lehman, Commissioner

and the  
City of Danbury, Connecticut  
Honorable Mark D. Boughton, Mayor

Name of Architect  
Contractor  
Name of General

**SIGN PANEL:** 3/4" MDO-EXT-APA PLYWOOD SUPPORTED WITH (2) 4X4 TREATED WOOD COLUMNS AND SECURED 4' INTO GRADE. TOP OF SIGN AT 8'-0" ABOVE GRADE.

**COLORS:** ALL LETTERS AND SYMBOLS ARE TO BE ROYAL BLUE. THE BACKGROUND WILL BE WHITE ENAMEL. BACK OF PLYWOOD AND SUPPORT STRUCTURE SHALL BE PAINTED MATTE BLACK.

**TYPEFACE:** HELVETICA MEDIUM

**LOCATION:** SIGN MUST BE LOCATED TO BE CLEARLY VISIBLE TO THE PUBLIC.

**TIMING:** INSTALL AT THE START OF CONSTRUCTION AND REMOVE AT CONSTRUCTION COMPLETION.

**STATE SEAL & DECD LOGO:** ATTACHED

STATE SEAL



DECD LOGO





**APPENDIX C**  
**COMMISSION ON HUMAN RIGHTS AND OPPORTUNITIES**  
**(CHRO)**

**Checklist for Contractors  
On Municipal Public Works Contracts  
Effective October 1st, 2015**

- Attend pre-bid meeting (if applicable)
- Discuss any parts of the contract that require special materials, equipment or installation that cannot be subcontracted (e.g. specialized medical equipment that can be installed by specific companies only)
- Complete [non-discrimination affidavit form](#) and submit to CHRO (email [Spencer.Hill@ct.gov](mailto:Spencer.Hill@ct.gov)) (This only needs to be done once every twelve months- [check contractor affidavit list](#))
- Submit bid documents (be sure to read CHRO language and set-aside requirements) (complete the [Notification to Bidders/Contract Compliance Monitoring Report](#) - which is included in the bid information - and return with your bid)

**Selected Contractor**

***For projects greater than \$50,000 but less than \$500,000 in state funds***

- Review award notice from municipality and follow instructions
  - If contractor has less than 50 employees submit a [Set-Aside Plan](#) to CHRO within 30 days of execution of contract
  - Contractors with 50 or more employees shall file an [Affirmative Action Plan](#) within 30 days of the execution of contract

***For projects equal to or greater than \$500,000 in state funds***

- Review the intent to award notice from municipality and follow instructions
  - Submit an Affirmative Action Plan to CHRO prior to award of contract
  - Receive approval of Affirmative Action Plan prior to award of contract

***Other filing requirements***

- Send a copy of a letter of transmittal to the municipality to confirm an Affirmative Action Plan or Set-Aside Plan was filed with CHRO
- [File monthly reports as required](#)
  - [Monthly Employment Utilization Report](#) (257/257a)
  - [Monthly SBE/MBE Status Report](#) (258/258a)
  - [Monthly Materials Consumption Report](#) (259)
  - [Cumulative Employment Utilization Report for end of project](#) (257b)
- Respond to request for closeout documents from CHRO, including, but not limited to:
  - [Final SBE/MBE Status Report](#) (258/258a)
  - Lien Waivers
  - Letter of Substantial Completion (when applicable)

**All bidders must complete, sign and return the: “CHRO Contract Compliance Regulations Notification to Bidders” form to the grantee at the time of bid opening. Bids not including this form should be considered incomplete and rejected.**

**COMMISSION ON HUMAN RIGHTS AND OPPORTUNITIES**  
**CONTRACT COMPLIANCE REGULATIONS**  
**NOTIFICATION TO BIDDERS**

(Revised 09/3/15)

The contract to be awarded is subject to contract compliance requirements mandated by Sections 4a-60 and 4a-60a of the Connecticut General Statutes; and, when the awarding agency is the State, Sections 46a-71(d) and 46a-81i(d) of the Connecticut General Statutes. There are Contract Compliance Regulations codified at Section 46a-68j-21 through 43 of the Regulations of Connecticut State Agencies, which establish a procedure for awarding all contracts covered by Sections 4a-60 and 46a-71(d) of the Connecticut General Statutes.

According to Section 46a-68j-30(9) of the Contract Compliance Regulations, every agency awarding a contract subject to the contract compliance requirements has an obligation to “aggressively solicit the participation of legitimate minority business enterprises as bidders, contractors, subcontractors and suppliers of materials.” “Minority business enterprise” is defined in Section 4a-60 of the Connecticut General Statutes as a business wherein fifty-one percent or more of the capital stock, or assets belong to a person or persons: “(1) Who are active in 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 Section 32-9n.” “Minority” groups are defined in Section 32-9n of the Connecticut General Statutes as “(1) Black Americans . . . (2) Hispanic Americans . . . (3) persons who have origins in the Iberian Peninsula . . . (4) Women . . . (5) Asian Pacific Americans and Pacific Islanders; (6) American Indians . . .” An individual with a disability is also a minority business enterprise as provided by Section 4a-60g of the Connecticut General Statutes. The above definitions apply to the contract compliance requirements by virtue of Section 46a-68j-21(11) of the Contract Compliance Regulations.

The awarding agency will consider the following factors when reviewing the bidder’s qualifications under the contract compliance requirements:

- (a) the bidder’s success in implementing an affirmative action plan;
- (b) the bidder’s success in developing an apprenticeship program complying with Sections 46a-68-1 to 46a-68-17 of the Administrative Regulations of Connecticut State Agencies, inclusive;
- (c) the bidder’s promise to develop and implement a successful affirmative action plan;
- (d) the bidder’s submission of employment statistics contained in the “Employment Information Form”, indicating that the composition of its workforce is at or near parity when compared to the racial and sexual composition of the workforce in the relevant labor market area; and
- (e) the bidder’s promise to set aside a portion of the contract for legitimate minority business enterprises. See Section 46a-68j-30(10)(E) of the Contract Compliance Regulations.

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**INSTRUCTIONS AND OTHER INFORMATION**

The following BIDDER CONTRACT COMPLIANCE MONITORING REPORT must be completed in full, signed, and submitted with the bid for this contract. The contract awarding agency and the Commission on Human Rights and Opportunities will use the information contained thereon to determine the bidders compliance to Sections 4a-60 and 4a-60a CONN. GEN. STAT., and Sections 46a-68j-23 of the Regulations of Connecticut State Agencies regarding equal employment opportunity, and the bidder’s good faith efforts to include minority business enterprises as subcontractors and suppliers for the work of the contract.

1) **Definition of Small Contractor**

Section 4a-60g CONN. GEN. STAT. defines a small contractor as a company that has been doing business under the same management and control and has maintained its principal place of business in Connecticut for a one year period immediately prior to its application for certification under this section, had gross revenues not exceeding fifteen million dollars in the most recently completed fiscal year, and at least fifty-one percent of the ownership of which is held by a person or persons who are active in the daily affairs of the company, and have the power to direct the management and policies of the company, except that a nonprofit corporation shall be construed to be a small contractor if such nonprofit corporation meets the requirements of subparagraphs (A) and (B) of subdivision 4a-60g CONN. GEN. STAT.

**MANAGEMENT:** Managers plan, organize, direct, and control the major functions of an organization through subordinates who are at the managerial or supervisory level. They make policy decisions and set objectives for the company or departments. They are not usually directly involved in production or providing services. Examples include top executives, public relations managers, managers of operations specialties (such as financial, human resources, or purchasing managers), and construction and engineering managers.

**BUSINESS AND FINANCIAL OPERATIONS:** These occupations include managers and professionals who work with the financial aspects of the business. These occupations include accountants and auditors, purchasing agents, management analysts, labor relations specialists, and budget, credit, and financial analysts.

**MARKETING AND SALES:** Occupations related to the act or process of buying and selling products and/or services such as sales engineer, retail sales workers and sales representatives including wholesale.

**LEGAL OCCUPATIONS:** In-House Counsel who is charged with providing legal advice and services in regards to legal issues that may arise during the course of standard business practices. This category also includes assistive legal occupations such as paralegals, legal assistants.

**COMPUTER SPECIALISTS:** Professionals responsible for the computer operations within a company are grouped in this category. Examples of job titles in this category include computer programmers, software engineers, database administrators, computer scientists, systems analysts, and computer support specialists.

**ARCHITECTURE AND ENGINEERING:** Occupations related to architecture, surveying, engineering, and drafting are included in this category. Some of the job titles in this category include electrical and electronic engineers, surveyors, architects, drafters, mechanical engineers, materials engineers, mapping technicians, and civil engineers.

**OFFICE AND ADMINISTRATIVE SUPPORT:** All clerical-type work is included in this category. These jobs involve the preparing, transcribing, and preserving of written communications and records; collecting accounts; gathering and distributing information; operating office machines and electronic data processing equipment; and distributing mail. Job titles listed in this category include telephone operators, bill and account collectors, customer service representatives, dispatchers, secretaries and administrative assistants, computer operators and clerks (such as payroll, shipping, stock, mail and file).

**BUILDING AND GROUNDS CLEANING AND MAINTENANCE:** This category includes occupations involving landscaping, housekeeping, and janitorial services. Job titles found in this category include supervisors of landscaping or housekeeping, janitors, maids, grounds maintenance workers, and pest control workers.

**CONSTRUCTION AND EXTRACTION:** This category includes construction trades and related occupations. Job titles found in this category include boilermakers, masons (all types), carpenters, construction laborers, electricians, plumbers (and related trades), roofers, sheet metal workers, elevator installers, hazardous materials removal workers, paperhangers, and painters. Paving, surfacing, and tamping equipment operators; drywall and ceiling tile installers; and carpet, floor and tile installers and finishers are also included in this category. First line supervisors, foremen, and helpers in these trades are also grouped in this category..

**INSTALLATION, MAINTENANCE AND REPAIR:** Occupations involving the installation, maintenance, and repair of equipment are included in this group. Examples of job titles found here are heating, ac, and refrigeration mechanics and installers; telecommunication line installers and repairers; heavy vehicle and mobile equipment service technicians and mechanics; small engine mechanics; security and fire alarm systems installers; electric/electronic repair, industrial, utility and transportation equipment; millwrights; riggers; and manufactured building and mobile home installers. First line supervisors, foremen, and helpers for these jobs are also included in the category.

**MATERIAL MOVING WORKERS:** The job titles included in this group are Crane and tower operators; dredge, excavating, and lading machine operators; hoist and winch operators; industrial truck and tractor operators; cleaners of vehicles and equipment; laborers and freight, stock, and material movers, hand; machine feeders and offbearers; packers and packagers, hand; pumping station operators; refuse and recyclable material collectors; and miscellaneous material moving workers.

**PRODUCTION WORKERS:** The job titles included in this category are chemical production machine setters, operators and tenders; crushing/grinding workers; cutting workers; inspectors, testers sorters, samplers, weighers; precious stone/metal workers; painting workers; cementing/gluing machine operators and tenders; etchers/engravers; molders, shapers and casters except for metal and plastic; and production workers.

<p><u>White</u> (not of Hispanic Origin)- All persons having origins in any of the original peoples of Europe, North Africa, or the Middle East.</p> <p><u>Black</u>(not of Hispanic Origin)- All persons having origins in any of the Black racial groups of Africa.</p> <p><u>Hispanic</u>- All persons of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.</p>	<p><u>Asian or Pacific Islander</u>- All persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands. This area includes China, India, Japan, Korea, the Philippine Islands, and Samoa.</p> <p><u>American Indian or Alaskan Native</u>- All persons having origins in any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.</p>
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**BIDDER CONTRACT COMPLIANCE MONITORING REPORT**

**PART I - Bidder Information**

Company Name Street Address City & State Chief Executive	Bidder Federal Employer Identification Number _____ Or Social Security Number _____
Major Business Activity (brief description)	Bidder Identification (response optional/definitions on page 1)  -Bidder is a small contractor. Yes ___ No ___ -Bidder is a minority business enterprise Yes ___ No ___ (If yes, check ownership category) Black ___ Hispanic ___ Asian American ___ American Indian/Alaskan Native ___ Iberian Peninsula ___ Individual(s) with a Physical Disability ___ Female ___
Bidder Parent Company (If any)	- Bidder is certified as above by State of CT Yes ___ No ___
Other Locations in Ct. (If any)	

**PART II - Bidder Nondiscrimination Policies and Procedures**

1. Does your company have a written Affirmative Action/Equal Employment Opportunity statement posted on company bulletin boards? Yes ___ No ___	7. Do all of your company contracts and purchase orders contain non-discrimination statements as required by Sections 4a-60 & 4a-60a Conn. Gen. Stat.? Yes ___ No ___
2. Does your company have the state-mandated sexual harassment prevention in the workplace policy posted on company bulletin boards? Yes ___ No ___	8. Do you, upon request, provide reasonable accommodation to employees, or applicants for employment, who have physical or mental disability? Yes ___ No ___
3. Do you notify all recruitment sources in writing of your company's Affirmative Action/Equal Employment Opportunity employment policy? Yes ___ No ___	9. Does your company have a mandatory retirement age for all employees? Yes ___ No ___
4. Do your company advertisements contain a written statement that you are an Affirmative Action/Equal Opportunity Employer? Yes ___ No ___	10. If your company has 50 or more employees, have you provided at least two (2) hours of sexual harassment training to all of your supervisors? Yes ___ No ___ NA ___
5. Do you notify the Ct. State Employment Service of all employment openings with your company? Yes ___ No ___	11. If your company has apprenticeship programs, do they meet the Affirmative Action/Equal Employment Opportunity requirements of the apprenticeship standards of the Ct. Dept. of Labor? Yes ___ No ___ NA ___
6. Does your company have a collective bargaining agreement with workers? Yes ___ No ___ 6a. If yes, do the collective bargaining agreements contain non-discrimination clauses covering all workers? Yes ___ No ___ 6b. Have you notified each union in writing of your commitments under the nondiscrimination requirements of contracts with the state of Ct? Yes ___ No ___	12. Does your company have a written affirmative action Plan? Yes ___ No ___ If no, please explain.  13. Is there a person in your company who is responsible for equal employment opportunity? Yes ___ No ___ If yes, give name and phone number. _____

1. Will the work of this contract include subcontractors or suppliers? Yes\_\_ No\_\_

1a. If yes, please list all subcontractors and suppliers and report if they are a small contractor and/or a minority business enterprise. (defined on page 1 / use additional sheet if necessary)

1b. Will the work of this contract require additional subcontractors or suppliers other than those identified in 1a. above?

Yes\_\_ No\_\_

**PART IV - Bidder Employment Information**

Date:

JOB CATEGORY *	OVERALL TOTALS	WHITE (not of Hispanic origin)		BLACK (not of Hispanic origin)		HISPANIC		ASIAN or PACIFIC ISLANDER		AMERICAN INDIAN or ALASKAN NATIVE	
		Male	Female	Male	Female	Male	Female	Male	Female	male	female
Management											
Business & Financial Ops											
Marketing & Sales											
Legal Occupations											
Computer Specialists											
Architecture/Engineering											
Office & Admin Support											
Bldg/ Grounds Cleaning/Maintenance											
Construction & Extraction											
Installation , Maintenance & Repair											
Material Moving Workers											
Production Occupations											
TOTALS ABOVE											
Total One Year Ago											
FORMAL ON THE JOB TRAINEES (ENTER FIGURES FOR THE SAME CATEGORIES AS ARE SHOWN ABOVE)											
Apprentices											
Trainees											

\*NOTE: JOB CATEGORIES CAN BE CHANGED OR ADDED TO (EX. SALES CAN BE ADDED OR REPLACE A CATEGORY NOT USED IN YOUR COMPANY)

1. Which of the following recruitment sources are used by you? (Check yes or no, and report percent used)				2. Check (X) any of the below listed requirements that you use as a hiring qualification  (X)	3. Describe below any other practices or actions that you take which show that you hire, train, and promote employees without discrimination
SOURCE	YES	NO	% of applicants provided by source		
State Employment Service				Work Experience	
Private Employment Agencies				Ability to Speak or Write English	
Schools and Colleges				Written Tests	
Newspaper Advertisement				High School Diploma	
Walk Ins				College Degree	
Present Employees				Union Membership	
Labor Organizations				Personal Recommendation	
Minority/Community Organizations				Height or Weight	
Others (please identify)				Car Ownership	
				Arrest Record	
				Wage Garnishments	

Certification (Read this form and check your statements on it CAREFULLY before signing). I certify that the statements made by me on this BIDDER CONTRACT COMPLIANCE MONITORING REPORT are complete and true to the best of my knowledge and belief, and are made in good faith. I understand that if I knowingly make any misstatements of facts, I am subject to be declared in non-compliance with Section 4a-60, 4a-60a, and related sections of the CONN. GEN. STAT.

(Signature)	(Title)	(Date Signed)	(Telephone)
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**APPENDIX D**  
**BORING LOGS AND ANALYTICAL TEST DATA**



Jaime Lloret		TEST BORING REPORT										SHEET 1 OF 1	
DRILLER		ASSOCIATED BORINGS CO., INC.											
Russ Dirienzo		119 MARGARET CIRCLE, NAUGATUCK, CT 06770										CME-55	
INSPECTOR		Tel (203) 729-5435 Fax (203) 729-5116										DRILLING EQUIPMENT	
SOILS ENGINEER		PROJECT NAME: 89 Rose Hill Ave				PROJECT NUMBER: HT212711.0000.00001						Arcadis - US	
Surface Elevation:		LOCATION: Danbury, Connecticut										CLIENT	
Date Started: 1/17/2019		Type		Auger		Casing		Sampler		Core Bar		Hole No. MW-1	
Date Finished: 1/17/2019		Size I. D.		4 1/4 in				2 in				Line & Station	
Groundwater Observations		Hammer						140 lb		Bit		Offset	
AT 6 ' AFTER 0 HRS		Fall						30 in				N Coordinate	
AT ' AFTER HRS												E. Coordinate	
D E P T H	Casing blows per foot	SAMPLE					BLOWS PER 6 INCHES ON SAMPLER				STRATA CHANGE: DEPTH, ELEV.	FIELD IDENTIFICATION OF SOIL, REMARKS (INCL. COLOR, LOSS OF WASH WATER, ETC.)	
		DEPTH IN FEET FROM - TO	NO.	PEN. INCH	REC. INCH	TYPE	0 - 6	6 - 12	12-18	18-24			
		0.0 - 2.0	1	24	4	D	22	20	18	16		Br. C-F Sand and C-F Gravel, Cobbles	
5													
10													
15													
20													
25													
30													
35													
40													
		From Ground Surface to			Feet Used		Inch Casing Then		Inch Casing For		Feet		
		Footage in Earth 13.0			Footage in Rock 0.0		No. of Samples 1		Hole No. MW-1				
SAMPLE TYPE CODING:		D = DRIVEN		C = CORE		A = AUGER		UP = UNDISTURBED PISTON					
PROPORTIONS USED:		TRACE = 1-10%		LITTLE = 10-20%		SOME = 20-35%		AND = 35-50%					

13

End of Boring - 13.0

WELL INSTALLED @ 13 FEET  
 10' 2" PVC SCREEN  
 5' 2" PVC RISER  
 STICK-UP PROTECTOR W/LOCK

Jaime Lloret		TEST BORING REPORT										SHEET	1	OF	1
DRILLER		ASSOCIATED BORINGS CO., INC.													
Russ Dirienzo		119 MARGARET CIRCLE, NAUGATUCK, CT 06770										CME-55			
INSPECTOR		Tel (203) 729-5435 Fax (203) 729-5116										DRILLING EQUIPMENT			
SOILS ENGINEER		PROJECT NAME: 89 Rose Hill Ave										Arcadis - US			
Surface Elevation:		PROJECT NUMBER: HT212711.0000.00001										CLIENT			
Date Started: 1/16/2019		LOCATION: Danbury, Connecticut													
Date Finished: 1/16/2019		Type	Auger	Casing	Sampler	Core Bar	Hole No. <b>MW-2</b>								
Groundwater Observations		Size I. D.	4 1/4 in			2 in	Line & Station								
AT 6 ' AFTER 0 HRS	Hammer				140 lb	Bit	N Coordinate								
AT ' AFTER HRS	Fall				30 in		E. Coordinate								
D E P T H	Casing blows per foot	SAMPLE					BLOWS PER 6 INCHES ON SAMPLER				STRATA CHANGE: DEPTH, ELEV.	FIELD IDENTIFICATION OF SOIL, REMARKS (INCL. COLOR, LOSS OF WASH WATER, ETC.)			
		DEPTH IN FEET FROM - TO	NO.	PEN. INCH	REC. INCH	TYPE	0 - 6	6 - 12	12-18	18-24					
5		5.0 - 7.0	1	24	5	D	6	8	12	11	3	Blk. M-F Sand and Silt			
												Br. C-F Sand and C-F Gravel, Cobbles			
10		10.0 - 12.0	2	24	10	D	7	7	16	18	8	Gr. M-F Sand and Silt, Tr. Clay			
15											13	End of Boring - 13.0			
20												<u>WELL INSTALLED @ 13 FEET</u>			
25												10' 2" PVC SCREEN			
30												5' 2" PVC RISER			
35												STICK-UP PROTECTOR W/LOCK			
40															
From Ground Surface to		Feet Used			Inch Casing Then			Inch Casing For			Feet				
Footage in Earth		Footage in Rock			No. of Samples			Hole No.		MW-2					
SAMPLE TYPE CODING:		D = DRIVEN			C = CORE			A = AUGER			UP = UNDISTURBED PISTON				
PROPORTIONS USED:		TRACE = 1-10%			LITTLE = 10-20%			SOME = 20-35%			AND = 35-50%				

Jaime Lloret		TEST BORING REPORT								SHEET 1 OF 1		
DRILLER		ASSOCIATED BORINGS CO., INC.										
Russ Dirienzo		119 MARGARET CIRCLE, NAUGATUCK, CT 06770								CME-55		
INSPECTOR		Tel (203) 729-5435 Fax (203) 729-5116								DRILLING EQUIPMENT		
SOILS ENGINEER		PROJECT NAME: 89 Rose Hill Ave				PROJECT NUMBER: HT212711.0000.00001				Arcadis - US		
Surface Elevation:		LOCATION: Danbury, Connecticut								CLIENT		
Date Started: 1/16/2019		Type		Auger		Casing		Sampler		Core Bar		
Date Finished: 1/16/2019		Size I. D.		4 1/4 in				2 in		Hole No. MW-3		
Groundwater Observations		Hammer						140 lb		Bit		
AT 6 ' AFTER 0 HRS		Fall						30 in		E. Coordinate		
D E P T H	Casing blows per foot	SAMPLE					BLOWS PER 6 INCHES ON SAMPLER				STRATA CHANGE: DEPTH, ELEV.	FIELD IDENTIFICATION OF SOIL, REMARKS (INCL. COLOR, LOSS OF WASH WATER, ETC.)
		DEPTH IN FEET FROM - TO	NO.	PEN. INCH	REC. INCH	TYPE	0 - 6	6 - 12	12-18	18-24		
5		5.0 - 7.0	1	24	3	D	24	26	22	23	4	Bk. M-F Sand and Silt
10											10.5	Br. C-F Sand and C-F Gravel, Cobbles
15												End of Boring - 10.5
20												WELL INSTALLED @ 10.5 FEET
25												7.5' 2" PVC SCREEN 4' 2" PVC RISER STICK-UP PROTECTOR W/LOCK
30												
35												
40												
From Ground Surface to		Feet Used			Inch Casing Then			Inch Casing For			Feet	
Footage in Earth		Footage in Rock			No. of Samples			Hole No.		MW-3		
10.5		0.0			1							
SAMPLE TYPE CODING:		D = DRIVEN		C = CORE		A = AUGER		UP = UNDISTURBED PISTON				
PROPORTIONS USED:		TRACE = 1-10%		LITTLE = 10-20%		SOME = 20-35%		AND = 35-50%				

Jaime Lloret		TEST BORING REPORT								SHEET 1 OF 1			
DRILLER		ASSOCIATED BORINGS CO., INC.											
Russ Dirienzo		119 MARGARET CIRCLE, NAUGATUCK, CT 06770								CME-55			
INSPECTOR		Tel (203) 729-5435 Fax (203) 729-5116								DRILLING EQUIPMENT			
SOILS ENGINEER		PROJECT NAME: 89 Rose Hill Ave				PROJECT NUMBER: HT212711.0000.00001				Arcadis - US			
Surface Elevation:		LOCATION: Danbury, Connecticut								CLIENT			
Date Started: 1/16/2019		Type		Auger		Casing		Sampler		Core Bar			
Date Finished: 1/16/2019		Size I. D.		4 1/4 in				2 in		Hole No. MW-4			
Groundwater Observations		Hammer						140 lb		Bit			
AT 6 ' AFTER 0 HRS		Fall						30 in		E. Coordinate			
D E P T H	Casing blows per foot	SAMPLE					BLOWS PER 6 INCHES ON SAMPLER				STRATA CHANGE: DEPTH, ELEV.	FIELD IDENTIFICATION OF SOIL, REMARKS (INCL. COLOR, LOSS OF WASH WATER, ETC.)	
		DEPTH IN FEET FROM - TO	NO.	PEN. INCH	REC. INCH	TYPE	0 - 6	6 - 12	12-18	18-24			
												3	Br. M-F Sand, Some Silt, Little M-F Gravel
5		5.0 - 7.0	1	24	5	D	2	2	12	16		6	Blk. M-F Sand and Silt
10												11	Br. C-F Sand and C-F Gravel, Cobbles
15												14	Gr. M-F Sand and Silt, Tr. Clay
20													End of Boring - 14.0
25													WELL INSTALLED @ 14 FEET
30													10' 2" PVC SCREEN
35													5' 2" PVC RISER
40													STICK-UP PROTECTOR W/LOCK
From Ground Surface to		Feet Used		Inch Casing Then		Inch Casing For		Feet					
Footage in Earth		14.0		Footage in Rock		0.0		No. of Samples		1		Hole No. MW-4	
SAMPLE TYPE CODING:		D = DRIVEN		C = CORE		A = AUGER		UP = UNDISTURBED PISTON					
PROPORTIONS USED:		TRACE = 1-10%		LITTLE = 10-20%		SOME = 20-35%		AND = 35-50%					

Jaime Lloret		TEST BORING REPORT										SHEET	1	OF	1
DRILLER		ASSOCIATED BORINGS CO., INC.													
Russ Dirienzo		119 MARGARET CIRCLE, NAUGATUCK, CT 06770										CME-55			
INSPECTOR		Tel (203) 729-5435 Fax (203) 729-5116										DRILLING EQUIPMENT			
SOILS ENGINEER		PROJECT NAME: 89 Rose Hill Ave										Arcadis - US			
Surface Elevation:		PROJECT NUMBER: HT212711.0000.00001										CLIENT			
Date Started: 1/17/2019		LOCATION: Danbury, Connecticut													
Date Finished: 1/17/2019		Type	Auger	Casing	Sampler	Core Bar	Hole No. <b>MW-5</b>								
Groundwater Observations		Size I. D.	4 1/4 in		2 in		Offset								
AT 5 'AFTER 0 HRS		Hammer		140 lb		Bit		N Coordinate							
AT 'AFTER HRS		Fall		30 in		E. Coordinate									
D E P T H	Casing blows per foot	SAMPLE					BLOWS PER 6 INCHES ON SAMPLER				STRATA CHANGE: DEPTH, ELEV.	FIELD IDENTIFICATION OF SOIL, REMARKS (INCL. COLOR, LOSS OF WASH WATER, ETC.)			
		DEPTH IN FEET FROM - TO	NO.	PEN. INCH	REC. INCH	TYPE	0 - 6	6 - 12	12-18	18-24					
5		0.0 - 2.0	1	24	5	D	9	9	6	4	2	Br. M-F Sand, Some Silt, Little M-F Gravel			
												Blk. M-F Sand and Silt			
		5.0 - 7.0	2	24	5	D	13	15	16	21	5	Gr. M-F Sand and Silt, Little C-F Gravel			
10		10.0 - 12.0	3	24	5	D	8	11	12	10	13	End of Boring - 13.0			
15															
20															
25															
30															
35															
40															
From Ground Surface to		Feet Used		Inch Casing Then		Inch Casing For		Feet							
Footage in Earth		13.0		Footage in Rock		0.0		No. of Samples		3		Hole No. MW-5			
SAMPLE TYPE CODING:		D = DRIVEN		C = CORE		A = AUGER		UP = UNDISTURBED PISTON							
PROPORTIONS USED:		TRACE = 1-10%		LITTLE = 10-20%		SOME = 20-35%		AND = 35-50%							

Jaime Lloret		TEST BORING REPORT										SHEET	1	OF	1	
DRILLER		ASSOCIATED BORINGS CO., INC.														
Russ Dirienzo		119 MARGARET CIRCLE, NAUGATUCK, CT 06770										CME-55				
INSPECTOR		Tel (203) 729-5435 Fax (203) 729-5116										DRILLING EQUIPMENT				
SOILS ENGINEER		PROJECT NAME: 89 Rose Hill Ave										Arcadis - US				
Surface Elevation:		PROJECT NUMBER: HT212711.0000.00001										CLIENT				
Date Started: 1/17/2019		LOCATION: Danbury, Connecticut										Hole No. <b>MW-6</b>				
Date Finished: 1/17/2019		Type	Auger	Casing	Sampler	Core Bar	Line & Station									
Groundwater Observations		Size I. D.	4 1/4 in		2 in		Offset									
AT	5	'AFTER	0	HRS	Hammer	140 lb		Bit		N Coordinate						
AT		'AFTER		HRS	Fall	30 in				E. Coordinate						
D E P T H	Casing blows per foot	SAMPLE					BLOWS PER 6 INCHES ON SAMPLER				STRATA CHANGE: DEPTH, ELEV.	FIELD IDENTIFICATION OF SOIL, REMARKS (INCL. COLOR, LOSS OF WASH WATER, ETC.)				
		DEPTH IN FEET FROM - TO	NO.	PEN. INCH	REC. INCH	TYPE	0 - 6	6 - 12	12-18	18-24						
5		0.0 - 2.0	1	24	5	D	16	15	11	7	2	Br. M-F Sand, Some Silt, Little M-F Gravel				
												Blk. M-F Sand and Silt				
		5.0 - 7.0	2	24	8	D	2	2	1	1						
10		10.0 - 12.0	3	24	8	D	17	15	16	13	12 13	Gr. M-F Sand and Silt, Tr. Clay				
												End of Boring - 13.0				
15											<u>WELL INSTALLED @ 13 FEET</u>  10' 2" PVC SCREEN 5' 2" PVC RISER STICK-UP PROTECTOR W/LOCK					
20																
25																
30																
35																
40																
From Ground Surface to		Feet Used			Inch Casing Then			Inch Casing For			Feet					
Footage in Earth		13.0			Footage in Rock			0.0			No. of Samples		3		Hole No. MW-6	
SAMPLE TYPE CODING:		D = DRIVEN			C = CORE			A = AUGER			UP = UNDISTURBED PISTON					
PROPORTIONS USED:		TRACE = 1-10%			LITTLE = 10-20%			SOME = 20-35%			AND = 35-50%					



Client: Mr. Russ Dirienzo  
Arcadis, Inc.  
75 Glen Road, Ste 305  
Sandy Hook, CT 06482

# Analytical Report

## CET# 6120201

Report Date: December 20, 2016  
Project: Former Mallory Hat Factory, Danbury  
Project Number: HT212651.0000.00001

Connecticut Laboratory Certificate: PH 0116  
Massachusetts laboratory Certificate: M-CT903



New York NELAP Accreditation: 11982  
Rhode Island Certification: 199

**SAMPLE SUMMARY**

The sample(s) were received at 1.1°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
M-1	6120201-01	Soil	12/07/2016 12:55	12/08/2016
M-2	6120201-02	Soil	12/07/2016 13:00	12/08/2016
M-3	6120201-03	Soil	12/07/2016 13:05	12/08/2016
M-4	6120201-04	Soil	12/07/2016 13:10	12/08/2016
M-5	6120201-05	Soil	12/07/2016 13:15	12/08/2016
M-6	6120201-06	Soil	12/07/2016 13:20	12/08/2016
M-10	6120201-07	Soil	12/07/2016 13:25	12/08/2016
MHS-1 0ft	6120201-08	Soil	12/07/2016 12:00	12/08/2016
MHS-1 2ft	6120201-09	Soil	12/07/2016 12:05	12/08/2016
MHS-1 4ft	6120201-10	Soil	12/07/2016 12:10	12/08/2016
MHS-1E 0ft	6120201-11	Soil	12/07/2016 10:40	12/08/2016
MHS-1E 2ft	6120201-12	Soil	12/07/2016 10:50	12/08/2016
MHS-1E 4ft	6120201-13	Soil	12/07/2016 11:00	12/08/2016
MHS-1N 0ft	6120201-14	Soil	12/07/2016 11:40	12/08/2016
MHS-1N 2ft	6120201-15	Soil	12/07/2016 11:45	12/08/2016
MHS-1N 4ft	6120201-16	Soil	12/07/2016 11:50	12/08/2016
MHS-1W 0ft	6120201-17	Soil	12/07/2016 11:10	12/08/2016
MHS-1W 2ft	6120201-18	Soil	12/07/2016 11:20	12/08/2016
MHS-1W 4ft	6120201-19	Soil	12/07/2016 11:30	12/08/2016
MHS-1A 0ft	6120201-20	Soil	12/07/2016 11:55	12/08/2016
UST-1 4ft	6120201-21	Soil	12/07/2016 10:00	12/08/2016
UST-N 4ft	6120201-22	Soil	12/07/2016 10:10	12/08/2016
UST-NW 4ft	6120201-23	Soil	12/07/2016 10:20	12/08/2016
UST-E 4ft	6120201-24	Soil	12/07/2016 10:30	12/08/2016
MHS-2 0ft	6120201-25	Soil	12/07/2016 14:05	12/08/2016
MHS-2 2ft	6120201-26	Soil	12/07/2016 14:10	12/08/2016
MHS-2N 0ft	6120201-27	Soil	12/07/2016 14:15	12/08/2016
MHS-2S 0ft	6120201-28	Soil	12/07/2016 14:20	12/08/2016
MHS-2E 0ft	6120201-29	Soil	12/07/2016 14:25	12/08/2016
MHS-2W 0ft	6120201-30	Soil	12/07/2016 14:30	12/08/2016
MHS-3 0ft	6120201-31	Soil	12/07/2016 9:00	12/08/2016
MHS-3 2ft	6120201-32	Soil	12/07/2016 9:05	12/08/2016
MHS-3N 0ft	6120201-33	Soil	12/07/2016 9:10	12/08/2016
MHS-3S 0ft	6120201-34	Soil	12/07/2016 9:15	12/08/2016
MHS-3E 0ft	6120201-35	Soil	12/07/2016 9:20	12/08/2016
MHS-3W 0ft	6120201-36	Soil	12/07/2016 9:25	12/08/2016
MHS-4 0ft	6120201-37	Soil	12/07/2016 9:50	12/08/2016
MHS-4 3ft	6120201-38	Soil	12/07/2016 9:55	12/08/2016
MHS-4N 0ft	6120201-39	Soil	12/07/2016 9:45	12/08/2016



CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

MHS-4E 0ft	6120201-40	Soil	12/07/2016 9:30	12/08/2016
MHS-4W 0ft	6120201-41	Soil	12/07/2016 9:40	12/08/2016
AS-1 1ft	6120201-42	Soil	12/07/2016 12:15	12/08/2016
AS-1 4ft	6120201-43	Soil	12/07/2016 12:20	12/08/2016
AS-2 1ft	6120201-44	Soil	12/07/2016 12:25	12/08/2016
AS-2 4ft	6120201-45	Soil	12/07/2016 12:30	12/08/2016
AS-3 1ft	6120201-46	Soil	12/07/2016 12:35	12/08/2016
AS-3 4ft	6120201-47	Soil	12/07/2016 12:40	12/08/2016
AS-4 1ft	6120201-48	Soil	12/07/2016 12:45	12/08/2016
AS-4 4ft	6120201-49	Soil	12/07/2016 12:50	12/08/2016
AS-4	6120201-50	Water	12/07/2016 14:00	12/08/2016
Trip Blank	6120201-51	Water	12/07/2016	12/08/2016

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

Analyte: Percent Solids [SM 2540 G]

Analyst: MRH

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time		Notes
								Analyzed		
6120201-01	M-1	87	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-02	M-2	79	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-03	M-3	86	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-04	M-4	84	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-05	M-5	80	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-06	M-6	84	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-07	M-10	87	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-08	MHS-1 0ft	62	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-09	MHS-1 2ft	84	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-10	MHS-1 4ft	87	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-11	MHS-1E 0ft	66	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-12	MHS-1E 2ft	89	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-13	MHS-1E 4ft	87	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-14	MHS-1N 0ft	67	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-15	MHS-1N 2ft	76	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-16	MHS-1N 4ft	79	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-17	MHS-1W 0ft	74	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-18	MHS-1W 2ft	84	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-19	MHS-1W 4ft	87	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-20	MHS-1A 0ft	77	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-21	UST-1 4ft	72	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-22	UST-N 4ft	85	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-23	UST-NW 4ft	78	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-24	UST-E 4ft	74	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-25	MHS-2 0ft	63	1.0	%	1	B6L0917	12/09/2016	12/09/2016	12:24	
6120201-26	MHS-2 2ft	86	1.0	%	1	B6L0927	12/09/2016	12/09/2016	16:00	
6120201-27	MHS-2N 0ft	65	1.0	%	1	B6L0927	12/09/2016	12/09/2016	16:00	
6120201-28	MHS-2S 0ft	79	1.0	%	1	B6L0927	12/09/2016	12/09/2016	16:00	
6120201-29	MHS-2E 0ft	66	1.0	%	1	B6L0919	12/09/2016	12/09/2016	10:43	
6120201-30	MHS-2W 0ft	76	1.0	%	1	B6L0919	12/09/2016	12/09/2016	10:43	
6120201-31	MHS-3 0ft	78	1.0	%	1	B6L0919	12/09/2016	12/09/2016	10:43	
6120201-32	MHS-3 2ft	79	1.0	%	1	B6L0919	12/09/2016	12/09/2016	10:43	
6120201-33	MHS-3N 0ft	83	1.0	%	1	B6L0919	12/09/2016	12/09/2016	10:43	
6120201-34	MHS-3S 0ft	82	1.0	%	1	B6L0919	12/09/2016	12/09/2016	10:43	

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

**Analyte: Percent Solids [SM 2540 G]**

**Analyst: WRH**

**Matrix: Soil**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
6120201-35	MHS-3E 0ft	71	1.0	%	1	B6L0919	12/09/2016	12/09/2016 10:43	
6120201-36	MHS-3W 0ft	75	1.0	%	1	B6L0919	12/09/2016	12/09/2016 10:43	
6120201-37	MHS-4 0ft	87	1.0	%	1	B6L0919	12/09/2016	12/09/2016 10:43	
6120201-38	MHS-4 3ft	81	1.0	%	1	B6L0919	12/09/2016	12/09/2016 10:43	
6120201-39	MHS-4N 0ft	78	1.0	%	1	B6L0919	12/09/2016	12/09/2016 10:43	
6120201-40	MHS-4E 0ft	87	1.0	%	1	B6L0919	12/09/2016	12/09/2016 10:43	
6120201-41	MHS-4W 0ft	86	1.0	%	1	B6L0919	12/09/2016	12/09/2016 10:43	
6120201-42	AS-1 1ft	67	1.0	%	1	B6L0919	12/09/2016	12/09/2016 10:43	
6120201-43	AS-1 4ft	93	1.0	%	1	B6L0919	12/09/2016	12/09/2016 10:43	
6120201-44	AS-2 1ft	80	1.0	%	1	B6L0919	12/09/2016	12/09/2016 10:43	
6120201-45	AS-2 4ft	93	1.0	%	1	B6L0919	12/09/2016	12/09/2016 10:43	
6120201-46	AS-3 1ft	81	1.0	%	1	B6L0919	12/09/2016	12/09/2016 10:43	
6120201-47	AS-3 4ft	86	1.0	%	1	B6L0919	12/09/2016	12/09/2016 10:43	
6120201-48	AS-4 1ft	87	1.0	%	1	B6L0919	12/09/2016	12/09/2016 10:43	
6120201-49	AS-4 4ft	87	1.0	%	1	B6L0919	12/09/2016	12/09/2016 10:43	

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

Analyte: Mercury [EPA 7471B]

Analyst: MPC

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time	
								Analyzed	Notes
6120201-01	M-1	<b>0.87</b>	0.23	mg/kg dry	1	B6L0928	12/09/2016	12/09/2016 14:24	
6120201-02	M-2	<b>3.5</b>	0.25	mg/kg dry	1	B6L0928	12/09/2016	12/09/2016 14:27	
6120201-03	M-3	<b>5.6</b>	0.23	mg/kg dry	1	B6L0928	12/09/2016	12/09/2016 14:30	
6120201-04	M-4	<b>0.37</b>	0.24	mg/kg dry	1	B6L0928	12/09/2016	12/09/2016 14:33	
6120201-05	M-5	<b>0.75</b>	0.25	mg/kg dry	1	B6L0928	12/09/2016	12/09/2016 14:36	
6120201-06	M-6	<b>2.8</b>	0.24	mg/kg dry	1	B6L0928	12/09/2016	12/09/2016 14:39	
6120201-07	M-10	<b>2.2</b>	0.23	mg/kg dry	1	B6L0928	12/09/2016	12/09/2016 14:42	
6120201-08	MHS-1 0ft	<b>14</b>	3.2	mg/kg dry	10	B6L0928	12/09/2016	12/09/2016 15:15	
6120201-09	MHS-1 2ft	<b>26</b>	2.4	mg/kg dry	10	B6L0928	12/09/2016	12/09/2016 15:18	
6120201-10	MHS-1 4ft	<b>55</b>	2.3	mg/kg dry	10	B6L0928	12/09/2016	12/09/2016 15:21	
6120201-11	MHS-1E 0ft	<b>5.7</b>	3.0	mg/kg dry	10	B6L0928	12/09/2016	12/09/2016 15:24	
6120201-12	MHS-1E 2ft	<b>10</b>	2.2	mg/kg dry	10	B6L0928	12/09/2016	12/09/2016 15:27	
6120201-13	MHS-1E 4ft	ND	2.3	mg/kg dry	10	B6L0928	12/09/2016	12/09/2016 15:30	
6120201-14	MHS-1N 0ft	ND	3.0	mg/kg dry	10	B6L0928	12/09/2016	12/09/2016 15:38	
6120201-15	MHS-1N 2ft	<b>20</b>	2.6	mg/kg dry	10	B6L0935	12/09/2016	12/09/2016 15:41	
6120201-16	MHS-1N 4ft	<b>8.8</b>	2.5	mg/kg dry	10	B6L0935	12/09/2016	12/09/2016 15:44	
6120201-17	MHS-1W 0ft	ND	2.7	mg/kg dry	10	B6L0935	12/09/2016	12/09/2016 15:47	
6120201-18	MHS-1W 2ft	<b>19</b>	2.4	mg/kg dry	10	B6L0935	12/09/2016	12/09/2016 15:50	
6120201-19	MHS-1W 4ft	ND	0.23	mg/kg dry	1	B6L0935	12/09/2016	12/09/2016 16:41	
6120201-20	MHS-1A 0ft	ND	2.6	mg/kg dry	10	B6L0935	12/09/2016	12/09/2016 16:04	
6120201-25	MHS-2 0ft	<b>4.6</b>	3.2	mg/kg dry	10	B6L0935	12/09/2016	12/09/2016 16:12	
6120201-26	MHS-2 2ft	ND	2.3	mg/kg dry	10	B6L0935	12/09/2016	12/09/2016 16:15	
6120201-27	MHS-2N 0ft	<b>64</b>	3.1	mg/kg dry	10	B6L0935	12/09/2016	12/09/2016 16:18	
6120201-28	MHS-2S 0ft	<b>18</b>	2.5	mg/kg dry	10	B6L0935	12/09/2016	12/09/2016 16:35	
6120201-29	MHS-2E 0ft	<b>18</b>	3.0	mg/kg dry	10	B6L0935	12/09/2016	12/09/2016 16:38	
6120201-30	MHS-2W 0ft	<b>5.9</b>	2.6	mg/kg dry	10	B6L0935	12/09/2016	12/09/2016 16:44	
6120201-31	MHS-3 0ft	<b>7.8</b>	2.6	mg/kg dry	10	B6L0935	12/09/2016	12/09/2016 16:47	
6120201-32	MHS-3 2ft	<b>200</b>	13	mg/kg dry	50	B6L1411	12/14/2016	12/14/2016 12:04	
6120201-33	MHS-3N 0ft	<b>57</b>	2.4	mg/kg dry	10	B6L1411	12/14/2016	12/14/2016 12:10	
6120201-34	MHS-3S 0ft	<b>13</b>	2.4	mg/kg dry	10	B6L1411	12/14/2016	12/14/2016 12:13	
6120201-35	MHS-3E 0ft	<b>240</b>	14	mg/kg dry	50	B6L1411	12/14/2016	12/14/2016 12:29	
6120201-36	MHS-3W 0ft	<b>2.0</b>	0.27	mg/kg dry	1	B6L1302	12/12/2016	12/13/2016 16:10	
6120201-37	MHS-4 0ft	<b>10</b>	2.3	mg/kg dry	10	B6L1411	12/14/2016	12/14/2016 12:31	
6120201-38	MHS-4 3ft	<b>20</b>	2.5	mg/kg dry	10	B6L1411	12/14/2016	12/14/2016 12:34	

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

**Analyte: Mercury [EPA 7471B]**

**Analyst: KP**

**Matrix: Soil**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
6120201-39	MHS-4N 0ft	36	2.6	mg/kg dry	10	B6L1411	12/14/2016	12/14/2016 12:37	
6120201-40	MHS-4E 0ft	5.0	0.23	mg/kg dry	1	B6L1302	12/12/2016	12/13/2016 16:10	
6120201-41	MHS-4W 0ft	76	12	mg/kg dry	50	B6L1411	12/14/2016	12/14/2016 12:46	
6120201-42	AS-1 1ft	5.1	0.30	mg/kg dry	1	B6L1302	12/12/2016	12/13/2016 16:10	
6120201-43	AS-1 4ft	ND	0.22	mg/kg dry	1	B6L1302	12/12/2016	12/13/2016 16:10	
6120201-44	AS-2 1ft	2.8	0.25	mg/kg dry	1	B6L1302	12/12/2016	12/13/2016 16:10	
6120201-45	AS-2 4ft	ND	0.22	mg/kg dry	1	B6L1302	12/12/2016	12/13/2016 16:10	
6120201-46	AS-3 1ft	11	2.5	mg/kg dry	10	B6L1411	12/14/2016	12/14/2016 12:49	
6120201-47	AS-3 4ft	140	12	mg/kg dry	50	B6L1411	12/14/2016	12/14/2016 12:59	
6120201-48	AS-4 1ft	2.9	0.23	mg/kg dry	1	B6L1302	12/12/2016	12/13/2016 16:10	
6120201-49	AS-4 4ft	59	12	mg/kg dry	50	B6L1411	12/14/2016	12/14/2016 13:10	

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

**Analyst: SS**

**Prep: EPA 3050B**

**Matrix: Soil**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
6120201-25	MHS-2 0ft	2.4	1.6	mg/kg dry	1	B6L1907	12/19/2016	12/19/2016 18:06	
6120201-26	MHS-2 2ft	1.7	1.2	mg/kg dry	1	B6L1907	12/19/2016	12/19/2016 18:10	
6120201-27	MHS-2N 0ft	27	1.5	mg/kg dry	1	B6L1907	12/19/2016	12/19/2016 18:22	
6120201-28	MHS-2S 0ft	4.7	1.3	mg/kg dry	1	B6L1907	12/19/2016	12/19/2016 18:26	
6120201-29	MHS-2E 0ft	5.1	1.5	mg/kg dry	1	B6L1907	12/19/2016	12/19/2016 18:43	
6120201-30	MHS-2W 0ft	2.6	1.3	mg/kg dry	1	B6L1205	12/12/2016	12/12/2016 15:20	
6120201-42	AS-1 1ft	4.0	1.5	mg/kg dry	1	B6L1205	12/12/2016	12/12/2016 15:33	
6120201-43	AS-1 4ft	1.4	1.1	mg/kg dry	1	B6L1205	12/12/2016	12/12/2016 15:37	
6120201-44	AS-2 1ft	2.6	1.2	mg/kg dry	1	B6L1205	12/12/2016	12/12/2016 15:42	
6120201-46	AS-3 1ft	3.8	1.2	mg/kg dry	1	B6L1205	12/12/2016	12/12/2016 15:46	
6120201-48	AS-4 1ft	4.0	1.1	mg/kg dry	1	B6L1205	12/12/2016	12/12/2016 15:50	
6120201-49	AS-4 4ft	25	1.1	mg/kg dry	1	B6L1205	12/12/2016	12/12/2016 15:54	

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

**Analyte: Total Lead [EPA 6010C]**

**Analyst: SS**

**Prep: EPA 3050B**

**Matrix: Soil**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
6120201-01	M-1	45	2.3	mg/kg dry	1	B6L1205	12/12/2016	12/12/2016 14:59	
6120201-03	M-3	74	2.3	mg/kg dry	1	B6L1205	12/12/2016	12/12/2016 15:03	
6120201-04	M-4	14	2.4	mg/kg dry	1	B6L1205	12/12/2016	12/12/2016 15:07	
6120201-06	M-6	100	2.4	mg/kg dry	1	B6L1205	12/12/2016	12/12/2016 15:12	
6120201-07	M-10	60	2.3	mg/kg dry	1	B6L1205	12/12/2016	12/12/2016 15:16	

**Analyte: Dissolved Filtration Method [EPA 3005A]**

**Analyst: SS**

**Prep: EPA 3005A**

**Matrix: Water**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
6120201-50	AS-4	Lab Filtered	0.00		1	B6L0915	12/09/2016	12/09/2016 16:35	

**Analyte: Dissolved Mercury [EPA 245.2]**

**Analyst: TWF**

**Matrix: Water**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
6120201-50	AS-4	0.039	0.00040	mg/L	10	B6L1516	12/15/2016	12/16/2016 13:30	

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

**Analyte: Dissolved Arsenic [EPA 200.7]**

**Analyst: SS**

**Prep: EPA 3005A**

**Matrix: Water**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
6120201-50	AS-4	ND	0.0040	mg/L	1	B6L0932	12/09/2016	12/09/2016 20:57	

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

## Client Sample ID UST-1 4ft

Lab ID: 6120201-21

## Conn. Extractable TPH

Analyst: MH

## Method: CT-ETPH

Matrix: Soil

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	69	1	EPA 3550C	B6L1001	12/10/2016	12/10/2016 13:08	*F1
<i>Surrogate: Octacosane</i>	<i>79.2 %</i>	<i>50 - 150</i>			B6L1001	12/10/2016	<i>12/10/2016 13:08</i>	

## PCBs by ASE

Analyst: JS

## Method: EPA 8082A

Matrix: Soil

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.28	1	EPA 3545A	B6L0933	12/09/2016	12/12/2016 11:41	
PCB-1221	ND	0.28	1	EPA 3545A	B6L0933	12/09/2016	12/12/2016 11:41	
PCB-1232	ND	0.28	1	EPA 3545A	B6L0933	12/09/2016	12/12/2016 11:41	
PCB-1242	ND	0.28	1	EPA 3545A	B6L0933	12/09/2016	12/12/2016 11:41	
PCB-1248	ND	0.28	1	EPA 3545A	B6L0933	12/09/2016	12/12/2016 11:41	
PCB-1254	ND	0.28	1	EPA 3545A	B6L0933	12/09/2016	12/12/2016 11:41	
PCB-1260	ND	0.28	1	EPA 3545A	B6L0933	12/09/2016	12/12/2016 11:41	
PCB-1262	ND	0.28	1	EPA 3545A	B6L0933	12/09/2016	12/12/2016 11:41	
PCB-1268	ND	0.28	1	EPA 3545A	B6L0933	12/09/2016	12/12/2016 11:41	
<i>Surrogate: DCB [1C]</i>	<i>57.5 %</i>	<i>30 - 150</i>			B6L0933	12/09/2016	<i>12/12/2016 11:41</i>	
<i>Surrogate: DCB [2C]</i>	<i>62.2 %</i>	<i>30 - 150</i>			B6L0933	12/09/2016	<i>12/12/2016 11:41</i>	
<i>Surrogate: TCMX [1C]</i>	<i>49.1 %</i>	<i>30 - 150</i>			B6L0933	12/09/2016	<i>12/12/2016 11:41</i>	
<i>Surrogate: TCMX [2C]</i>	<i>50.0 %</i>	<i>30 - 150</i>			B6L0933	12/09/2016	<i>12/12/2016 11:41</i>	

## Semivolatile Organics

Analyst: ALM

## Method: EPA 8270D

Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
2-Methyl Naphthalene	ND	410	1	EPA 3545A	B6L1203	12/12/2016	12/13/2016 10:55	
Acenaphthene	ND	410	1	EPA 3545A	B6L1203	12/12/2016	12/13/2016 10:55	
Acenaphthylene	ND	410	1	EPA 3545A	B6L1203	12/12/2016	12/13/2016 10:55	
Anthracene	ND	410	1	EPA 3545A	B6L1203	12/12/2016	12/13/2016 10:55	
Benzo[a]anthracene	ND	410	1	EPA 3545A	B6L1203	12/12/2016	12/13/2016 10:55	
Benzo[a]pyrene	ND	410	1	EPA 3545A	B6L1203	12/12/2016	12/13/2016 10:55	
Benzo[b]fluoranthene	ND	410	1	EPA 3545A	B6L1203	12/12/2016	12/13/2016 10:55	
Benzo[g,h,i]perylene	ND	410	1	EPA 3545A	B6L1203	12/12/2016	12/13/2016 10:55	

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CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

## Client Sample ID UST-1 4ft

Lab ID: 6120201-21

## Semivolatile Organics

Analyst: ALM

Method: EPA 8270D

Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Benzo[k]fluoranthene	ND	410	1	EPA 3545A	B6L1203	12/12/2016	12/13/2016 10:55	
Chrysene	ND	410	1	EPA 3545A	B6L1203	12/12/2016	12/13/2016 10:55	
Dibenz[a,h]anthracene	ND	410	1	EPA 3545A	B6L1203	12/12/2016	12/13/2016 10:55	
Fluoranthene	ND	410	1	EPA 3545A	B6L1203	12/12/2016	12/13/2016 10:55	
Fluorene	ND	410	1	EPA 3545A	B6L1203	12/12/2016	12/13/2016 10:55	
Indeno[1,2,3-cd]pyrene	ND	410	1	EPA 3545A	B6L1203	12/12/2016	12/13/2016 10:55	
Naphthalene	ND	410	1	EPA 3545A	B6L1203	12/12/2016	12/13/2016 10:55	
Phenanthrene	ND	410	1	EPA 3545A	B6L1203	12/12/2016	12/13/2016 10:55	
Pyrene	ND	410	1	EPA 3545A	B6L1203	12/12/2016	12/13/2016 10:55	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>48.3 %</i>	<i>30 - 130</i>			B6L1203	12/12/2016	<i>12/13/2016 10:55</i>	
<i>Surrogate: Nitrobenzene-d5</i>	<i>36.2 %</i>	<i>30 - 130</i>			B6L1203	12/12/2016	<i>12/13/2016 10:55</i>	
<i>Surrogate: Terphenyl-d14</i>	<i>62.5 %</i>	<i>30 - 130</i>			B6L1203	12/12/2016	<i>12/13/2016 10:55</i>	

## Volatile Organics

Analyst: DAH

Method: EPA 8260C

Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
1,1,1-Trichloroethane	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
1,1,2,2-Tetrachloroethane	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
1,1,2-Trichloroethane	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
1,1-Dichloroethane	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
1,1-Dichloroethene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
1,1-Dichloropropene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
1,2,3-Trichlorobenzene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
1,2,3-Trichloropropane	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
1,2,4-Trichlorobenzene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
1,2,4-Trimethylbenzene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
1,2-Dibromo-3-Chloropropane	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
1,2-Dibromoethane	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
1,2-Dichlorobenzene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
1,2-Dichloroethane	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
1,2-Dichloropropane	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
1,3,5-Trimethylbenzene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

## Client Sample ID UST-1 4ft

Lab ID: 6120201-21

**Volatile Organics**  
**Method: EPA 8260C**

Analyst: DAH

Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
1,3-Dichlorobenzene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
1,3-Dichloropropane	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
1,4-Dichlorobenzene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
2,2-Dichloropropane	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
2-Butanone (MEK)	ND	670	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	*C1
2-Chlorotoluene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
2-Hexanone	ND	670	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	*C1
4-Chlorotoluene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
4-Isopropyltoluene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Acetone	ND	4000	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	*F1*C1
Acrylonitrile	ND	220	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Benzene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Bromobenzene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Bromodichloromethane	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Bromoform	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Bromomethane	ND	270	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Carbon Disulfide	ND	270	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Carbon Tetrachloride	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Chlorobenzene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Chloroethane	ND	270	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Chloroform	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Chloromethane	ND	270	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
cis-1,2-Dichloroethene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
cis-1,3-Dichloropropene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Dibromochloromethane	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Dibromomethane	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Dichlorodifluoromethane	ND	400	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	*F2
Ethylbenzene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Hexachlorobutadiene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Isopropylbenzene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
m+p Xylenes	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Methyl Isobutyl Ketone	ND	670	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	*C1
Methylene Chloride	ND	1300	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	*F1*C1
Methyl-t-Butyl Ether (MTBE)	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Naphthalene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
<b>n-Butylbenzene</b>	<b>290</b>	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

## Client Sample ID UST-1 4ft

Lab ID: 6120201-21

## Volatile Organics

Method: EPA 8260C

Analyst: DAH

Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
n-Propylbenzene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
o-Xylene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
<b>sec-Butylbenzene</b>	<b>450</b>	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Styrene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
tert-Butylbenzene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Tetrachloroethene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Tetrahydrofuran	ND	670	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	*C1
Toluene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
trans-1,2-Dichloroethene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
trans-1,3-Dichloropropene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
trans-1,4-Dichloro-2-Butene	ND	670	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Trichloroethene	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Trichlorofluoromethane	ND	1100	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Trichlorotrifluoroethane	ND	1100	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
Vinyl Chloride	ND	130	38.97	EPA 5035A-H	B6L1235	12/12/2016	12/12/2016 12:33	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>88.0 %</i>	<i>70 - 130</i>			B6L1235	12/12/2016	<i>12/12/2016 12:33</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>102 %</i>	<i>70 - 130</i>			B6L1235	12/12/2016	<i>12/12/2016 12:33</i>	
<i>Surrogate: Toluene-d8</i>	<i>97.9 %</i>	<i>70 - 130</i>			B6L1235	12/12/2016	<i>12/12/2016 12:33</i>	

## Client Sample ID UST-N 4ft

Lab ID: 6120201-22

## Conn. Extractable TPH

Method: CT-ETPH

Analyst: MH

Matrix: Soil

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
<b>ETPH</b>	<b>1100</b>	59	1	EPA 3550C	B6L1001	12/10/2016	12/10/2016 13:30	R*F1
<i>Surrogate: Octacosane</i>	<i>50.6 %</i>	<i>50 - 150</i>			B6L1001	12/10/2016	<i>12/10/2016 13:30</i>	
R C18-C36 unknown								

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

**Client Sample ID UST-NW 4ft**

**Lab ID: 6120201-23**

**Conn. Extractable TPH**

**Method: CT-ETPH**

**Analyst: MH**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	64	1	EPA 3550C	B6L1001	12/10/2016	12/10/2016 13:53	*F1
<i>Surrogate: Octacosane</i>	<i>93.8 %</i>	<i>50 - 150</i>			B6L1001	12/10/2016	<i>12/10/2016 13:53</i>	

**Client Sample ID UST-E 4ft**

**Lab ID: 6120201-24**

**Conn. Extractable TPH**

**Method: CT-ETPH**

**Analyst: MH**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	67	1	EPA 3550C	B6L1001	12/10/2016	12/10/2016 14:16	*F1
<i>Surrogate: Octacosane</i>	<i>79.9 %</i>	<i>50 - 150</i>			B6L1001	12/10/2016	<i>12/10/2016 14:16</i>	

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

## Client Sample ID AS-4

Lab ID: 6120201-50

## Conn. Extractable TPH

Method: CT-ETPH

Analyst: MH

Matrix: Water

Analyte	Result (mg/L)	RL (mg/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	0.21	0.10	1	EPA 3510C	B6L1238	12/12/2016	12/12/2016 21:05	R
Surrogate: Octacosane	88.6 %		50 - 150		B6L1238	12/12/2016	12/12/2016 21:05	
R C18-C36 unknown								

## Volatile Organics

Method: EPA 8260C

Analyst: TWF

Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
1,1,1-Trichloroethane	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
1,1,2,2-Tetrachloroethane	ND	0.50	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
1,1,2-Trichloroethane	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
1,1-Dichloroethane	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
1,1-Dichloroethene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
1,1-Dichloropropene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
1,2,3-Trichlorobenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
1,2,3-Trichloropropane	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
1,2,4-Trichlorobenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
1,2,4-Trimethylbenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
1,2-Dibromo-3-Chloropropane	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
1,2-Dibromoethane	ND	0.50	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
1,2-Dichlorobenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
1,2-Dichloroethane	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
1,2-Dichloropropane	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
1,3,5-Trimethylbenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
1,3-Dichlorobenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
1,3-Dichloropropane	ND	0.50	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
1,4-Dichlorobenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
2,2-Dichloropropane	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
2-Butanone (MEK)	ND	25	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
2-Chlorotoluene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
2-Hexanone	ND	25	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
4-Chlorotoluene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
4-Isopropyltoluene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Acetone	ND	50	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

## Client Sample ID AS-4

Lab ID: 6120201-50

**Volatile Organics**  
**Method: EPA 8260C**

Analyst: TWF

Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Acrylonitrile	ND	0.50	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Benzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Bromobenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Bromodichloromethane	ND	0.50	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Bromoform	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Bromomethane	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	*C2
Carbon Disulfide	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Carbon Tetrachloride	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Chlorobenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Chloroethane	ND	5.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	*F2*C2
Chloroform	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Chloromethane	ND	2.7	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	*F2*C2
cis-1,2-Dichloroethene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
cis-1,3-Dichloropropene	ND	0.50	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Dibromochloromethane	ND	0.50	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Dibromomethane	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Dichlorodifluoromethane	ND	10	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	*F2*C2
Ethylbenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Hexachlorobutadiene	ND	0.45	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Isopropylbenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
m+p Xylenes	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Methyl Isobutyl Ketone	ND	25	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Methylene Chloride	ND	5.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Naphthalene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
n-Butylbenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
n-Propylbenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
o-Xylene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
sec-Butylbenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Styrene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
tert-Butylbenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Tetrachloroethene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Tetrahydrofuran	ND	5.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Toluene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
trans-1,2-Dichloroethene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
trans-1,3-Dichloropropene	ND	0.50	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

**Client Sample ID AS-4**

**Lab ID: 6120201-50**

**Volatile Organics**

**Method: EPA 8260C**

**Analyst: TWF**

**Matrix: Water**

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
trans-1,4-Dichloro-2-Butene	ND	10	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Trichloroethene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Trichlorofluoromethane	ND	25	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	*F2*C2
Trichlorotrifluoroethane	ND	25	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	
Vinyl Chloride	ND	1.6	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:27	*F2*C2
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>104 %</i>	<i>70 - 130</i>			B6L1435	12/14/2016	<i>12/14/2016 15:27</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98.7 %</i>	<i>70 - 130</i>			B6L1435	12/14/2016	<i>12/14/2016 15:27</i>	
<i>Surrogate: Toluene-d8</i>	<i>102 %</i>	<i>70 - 130</i>			B6L1435	12/14/2016	<i>12/14/2016 15:27</i>	

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

## Client Sample ID Trip Blank

Lab ID: 6120201-51

**Volatile Organics**  
**Method: EPA 8260C**

Analyst: TWF

Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
1,1,1-Trichloroethane	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
1,1,2,2-Tetrachloroethane	ND	0.50	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
1,1,2-Trichloroethane	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
1,1-Dichloroethane	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
1,1-Dichloroethene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
1,1-Dichloropropene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
1,2,3-Trichlorobenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
1,2,3-Trichloropropane	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
1,2,4-Trichlorobenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
1,2,4-Trimethylbenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
1,2-Dibromo-3-Chloropropane	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
1,2-Dibromoethane	ND	0.50	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
1,2-Dichlorobenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
1,2-Dichloroethane	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
1,2-Dichloropropane	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
1,3,5-Trimethylbenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
1,3-Dichlorobenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
1,3-Dichloropropane	ND	0.50	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
1,4-Dichlorobenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
2,2-Dichloropropane	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
2-Butanone (MEK)	ND	25	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
2-Chlorotoluene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
2-Hexanone	ND	25	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
4-Chlorotoluene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
4-Isopropyltoluene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Acetone	ND	50	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Acrylonitrile	ND	0.50	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Benzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Bromobenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Bromodichloromethane	ND	0.50	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Bromoform	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Bromomethane	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	*C2
Carbon Disulfide	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Carbon Tetrachloride	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Chlorobenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	



CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

## Client Sample ID Trip Blank

Lab ID: 6120201-51

Volatile Organics  
Method: EPA 8260C

Analyst: TWF

Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Chloroethane	ND	5.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	*F2*C2
Chloroform	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Chloromethane	ND	2.7	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	*F2*C2
cis-1,2-Dichloroethene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
cis-1,3-Dichloropropene	ND	0.50	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Dibromochloromethane	ND	0.50	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Dibromomethane	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Dichlorodifluoromethane	ND	10	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	*F2*C2
Ethylbenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Hexachlorobutadiene	ND	0.45	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Isopropylbenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
m+p Xylenes	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Methyl Isobutyl Ketone	ND	25	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Methylene Chloride	ND	5.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Naphthalene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
n-Butylbenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
n-Propylbenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
o-Xylene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
sec-Butylbenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Styrene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
tert-Butylbenzene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Tetrachloroethene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Tetrahydrofuran	ND	5.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Toluene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
trans-1,2-Dichloroethene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
trans-1,3-Dichloropropene	ND	0.50	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
trans-1,4-Dichloro-2-Butene	ND	10	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Trichloroethene	ND	1.0	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Trichlorofluoromethane	ND	25	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	*F2*C2
Trichlorotrifluoroethane	ND	25	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	
Vinyl Chloride	ND	1.6	1	EPA 5030C	B6L1435	12/14/2016	12/14/2016 15:57	*F2*C2
Surrogate: 1,2-Dichloroethane-d4	103 %	70 - 130			B6L1435	12/14/2016	12/14/2016 15:57	
Surrogate: 4-Bromofluorobenzene	101 %	70 - 130			B6L1435	12/14/2016	12/14/2016 15:57	
Surrogate: Toluene-d8	102 %	70 - 130			B6L1435	12/14/2016	12/14/2016 15:57	

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

### QUALITY CONTROL SECTION

#### Batch B6L0917 - SM 2540 G

Analyte	Result (%)	RL (%)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Duplicate (B6L0917-DUP1)</b>				<b>Source: 6120201-25</b>			Prepared: 12/9/2016	Analyzed: 12/9/2016	
Percent Solids	61	1.0		63			2.37	5	

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Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

**Batch B6L0919 - SM 2540 G**

Analyte	Result (%)	RL (%)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Duplicate (B6L0919-DUP1)</b>				<b>Source: 6120201-49</b>					Prepared: 12/9/2016 Analyzed: 12/9/2016
Percent Solids	86	1.0		87			0.612	5	

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Project: Former Mallory Hat Factory, Danbury

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**Batch B6L0927 - SM 2540 G**

Analyte	Result (%)	RL (%)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Duplicate (B6L0927-DUP1)</b>				<b>Source: 6120201-28</b>					
Percent Solids	80	1.0		79			0.637	5	

Prepared: 12/9/2016 Analyzed: 12/9/2016

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

**Batch B6L0928 - EPA 7471B**

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B6L0928-BLK1)</b>									Prepared: 12/9/2016 Analyzed: 12/9/2016
Mercury	ND	0.20							
<b>LCS (B6L0928-BS1)</b>									Prepared: 12/9/2016 Analyzed: 12/9/2016
Mercury	2.70	0.20	2.500		108	80 - 120			

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Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

**Batch B6L0932 - EPA 200.7**

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B6L0932-BLK1)</b>					Prepared: 12/9/2016 Analyzed: 12/9/2016				
Lead	ND	0.013							
Arsenic	ND	0.0040							
<b>LCS (B6L0932-BS1)</b>					Prepared: 12/9/2016 Analyzed: 12/9/2016				
Lead	0.188	0.013	0.200		94.0	85 - 115			
Arsenic	0.191	0.0040	0.200		95.3	85 - 115			

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Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

Batch B6L0933 - EPA 8082A

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B6L0933-BLK1)</b>					Prepared: 12/9/2016 Analyzed: 12/9/2016				
PCB-1016	ND	0.20							
PCB-1221	ND	0.20							
PCB-1232	ND	0.20							
PCB-1242	ND	0.20							
PCB-1248	ND	0.20							
PCB-1254	ND	0.20							
PCB-1260	ND	0.20							
PCB-1268	ND	0.20							
PCB-1262	ND	0.20							
<i>Surrogate: TCMX [1C]</i>					102	30 - 150			
<i>Surrogate: TCMX [2C]</i>					99.0	30 - 150			
<i>Surrogate: DCB [1C]</i>					82.9	30 - 150			
<i>Surrogate: DCB [2C]</i>					81.6	30 - 150			
<b>LCS (B6L0933-BS1)</b>					Prepared: 12/9/2016 Analyzed: 12/9/2016				
PCB-1016	0.979	0.20	1.000		97.9	40 - 140			
PCB-1260	0.977	0.20	1.000		97.7	40 - 140			
<i>Surrogate: TCMX [1C]</i>					96.7	30 - 150			
<i>Surrogate: TCMX [2C]</i>					95.4	30 - 150			
<i>Surrogate: DCB [1C]</i>					85.1	30 - 150			
<i>Surrogate: DCB [2C]</i>					85.4	30 - 150			
<b>Matrix Spike (B6L0933-MS1)</b>					Source: 6120201-21 Prepared: 12/9/2016 Analyzed: 12/12/2016				
PCB-1016	0.885	0.27	1.355	ND	65.3	40 - 140			
PCB-1260	0.872	0.27	1.355	ND	64.4	40 - 140			
<i>Surrogate: TCMX [1C]</i>					48.3	30 - 150			
<i>Surrogate: TCMX [2C]</i>					50.1	30 - 150			
<i>Surrogate: DCB [1C]</i>					57.4	30 - 150			
<i>Surrogate: DCB [2C]</i>					60.0	30 - 150			
<b>Matrix Spike Dup (B6L0933-MSD1)</b>					Source: 6120201-21 Prepared: 12/9/2016 Analyzed: 12/12/2016				
PCB-1016	0.936	0.28	1.388	ND	67.4	40 - 140	5.65	50	
PCB-1260	0.991	0.28	1.388	ND	71.4	40 - 140	12.7	50	
<i>Surrogate: TCMX [1C]</i>					53.9	30 - 150			
<i>Surrogate: TCMX [2C]</i>					55.3	30 - 150			
<i>Surrogate: DCB [1C]</i>					59.5	30 - 150			
<i>Surrogate: DCB [2C]</i>					59.6	30 - 150			

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

**Batch B6L0935 - EPA 7471B**

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B6L0935-BLK1)</b>									
Mercury	ND	0.20							Prepared: 12/9/2016 Analyzed: 12/9/2016
<b>LCS (B6L0935-BS1)</b>									
Mercury	2.49	0.20	2.500		99.5	80 - 120			Prepared: 12/9/2016 Analyzed: 12/9/2016
<b>Duplicate (B6L0935-DUP1)</b>									
Mercury	18.0	2.5		17.5			2.67	20	Source: 6120201-28 Prepared: 12/9/2016 Analyzed: 12/9/2016
<b>Matrix Spike (B6L0935-MS1)</b>									
Mercury	or accurate spiki	2.5	3.163	17.5	-17.0	80 - 120			Prepared: 12/9/2016 Analyzed: 12/9/2016 L
<b>Matrix Spike Dup (B6L0935-MSD1)</b>									
Mercury	or accurate spiki	2.5	3.163	17.5	29.0	80 - 120	8.21	20	Source: 6120201-28 Prepared: 12/9/2016 Analyzed: 12/9/2016 L



CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

**Batch B6L1001 - CT-ETPH**

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B6L1001-BLK1)</b>									
ETPH	ND	50							
<i>Surrogate: Octacosane</i>					82.9	50 - 150			
<b>LCS (B6L1001-BS1)</b>									
ETPH	1210	50				60 - 120			<b>L</b>
<i>Surrogate: Octacosane</i>					78.7	50 - 150			

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

**Batch B6L1205 - EPA 6010C**

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B6L1205-BLK1)</b>					Prepared: 12/12/2016 Analyzed: 12/12/2016				
Lead	ND	2.0							
Arsenic	ND	1.0							
<b>LCS (B6L1205-BS1)</b>					Prepared: 12/12/2016 Analyzed: 12/12/2016				
Lead	23.0	2.0	25.000		92.0	80 - 120			
Arsenic	24.5	1.0	25.000		98.1	80 - 120			

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

## Batch B6L1235 - EPA 8260C

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B6L1235-BLK1)</b>									
					Prepared: 12/12/2016 Analyzed: 12/12/2016				
Dichlorodifluoromethane	ND	7.5							
Chloromethane	ND	5.0							
Vinyl Chloride	ND	2.5							
Bromomethane	ND	5.0							
Chloroethane	ND	5.0							
Trichlorofluoromethane	ND	20							
Acetone	ND	75							
Acrylonitrile	ND	4.0							
Trichlorotrifluoroethane	ND	20							
1,1-Dichloroethene	ND	2.5							
Methylene Chloride	ND	25							
Carbon Disulfide	ND	5.0							
Methyl-t-Butyl Ether (MTBE)	ND	2.5							
trans-1,2-Dichloroethene	ND	2.5							
1,1-Dichloroethane	ND	2.5							
2-Butanone (MEK)	ND	13							
2,2-Dichloropropane	ND	2.5							
cis-1,2-Dichloroethene	ND	2.5							
Chloroform	ND	2.5							
Tetrahydrofuran	ND	13							
1,1,1-Trichloroethane	ND	2.5							
Carbon Tetrachloride	ND	2.5							
1,1-Dichloropropene	ND	2.5							
Benzene	ND	2.5							
1,2-Dichloroethane	ND	2.5							
Trichloroethene	ND	2.5							
1,2-Dichloropropane	ND	2.5							
Dibromomethane	ND	2.5							
Bromodichloromethane	ND	2.5							
Methyl Isobutyl Ketone	ND	13							
cis-1,3-Dichloropropene	ND	2.5							
Toluene	ND	2.5							
trans-1,3-Dichloropropene	ND	2.5							
2-Hexanone	ND	13							
1,1,2-Trichloroethane	ND	2.5							
Tetrachloroethene	ND	2.5							
1,3-Dichloropropane	ND	2.5							
Dibromochloromethane	ND	2.5							
1,2-Dibromoethane	ND	2.5							
trans-1,4-Dichloro-2-Butene	ND	13							
Chlorobenzene	ND	2.5							
1,1,1,2-Tetrachloroethane	ND	2.5							
Ethylbenzene	ND	2.5							
m+p Xylenes	ND	2.5							
o-Xylene	ND	2.5							
Styrene	ND	2.5							
Bromoform	ND	2.5							
Isopropylbenzene	ND	2.5							
1,1,2,2-Tetrachloroethane	ND	2.5							
Bromobenzene	ND	2.5							
1,2,3-Trichloropropane	ND	2.5							

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

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Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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**Blank (B6L1235-BLK1) - Continued**

Prepared: 12/12/2016 Analyzed: 12/12/2016

n-Propylbenzene	ND	2.5							
2-Chlorotoluene	ND	2.5							
4-Chlorotoluene	ND	2.5							
1,3,5-Trimethylbenzene	ND	2.5							
tert-Butylbenzene	ND	2.5							
1,2,4-Trimethylbenzene	ND	2.5							
sec-Butylbenzene	ND	2.5							
1,3-Dichlorobenzene	ND	2.5							
4-Isopropyltoluene	ND	2.5							
1,4-Dichlorobenzene	ND	2.5							
1,2-Dichlorobenzene	ND	2.5							
n-Butylbenzene	ND	2.5							
1,2-Dibromo-3-Chloropropane	ND	2.5							
1,2,4-Trichlorobenzene	ND	2.5							
Hexachlorobutadiene	ND	2.5							
Naphthalene	ND	2.5							
1,2,3-Trichlorobenzene	ND	2.5							

Surrogate: 1,2-Dichloroethane-d4

101 70 - 130

Surrogate: Toluene-d8

98.0 70 - 130

Surrogate: 4-Bromofluorobenzene

108 70 - 130

**LCS (B6L1235-BS1)**

Prepared: 12/12/2016 Analyzed: 12/12/2016

Dichlorodifluoromethane	74.1	7.5	50.000		<b>148</b>	70 - 130			<b>H</b>
Chloromethane	58.0	5.0	50.000		116	70 - 130			
Vinyl Chloride	57.2	2.5	50.000		114	70 - 130			
Bromomethane	53.9	5.0	50.000		108	70 - 130			
Chloroethane	49.6	5.0	50.000		99.2	70 - 130			
Trichlorofluoromethane	50.8	20	50.000		102	70 - 130			
Acetone	ND	75	100.000			70 - 130			<b>L</b>
Acrylonitrile	48.3	4.0	50.000		96.5	70 - 130			
Trichlorotrifluoroethane	45.8	20	50.000		91.6	70 - 130			
1,1-Dichloroethene	46.8	2.5	50.000		93.5	70 - 130			
Methylene Chloride	ND	25	50.000			70 - 130			<b>L</b>
Carbon Disulfide	48.6	5.0	50.000		97.2	70 - 130			
Methyl-t-Butyl Ether (MTBE)	47.8	2.5	50.000		95.6	70 - 130			
trans-1,2-Dichloroethene	45.1	2.5	50.000		90.2	70 - 130			
1,1-Dichloroethane	45.5	2.5	50.000		90.9	70 - 130			
2-Butanone (MEK)	101	13	100.000		101	70 - 130			
2,2-Dichloropropane	45.4	2.5	50.000		90.7	70 - 130			
cis-1,2-Dichloroethene	45.6	2.5	50.000		91.1	70 - 130			
Chloroform	45.4	2.5	50.000		90.7	70 - 130			
Tetrahydrofuran	46.5	13	50.000		92.9	70 - 130			
1,1,1-Trichloroethane	44.5	2.5	50.000		89.0	70 - 130			
Carbon Tetrachloride	45.2	2.5	50.000		90.3	70 - 130			
1,1-Dichloropropene	45.5	2.5	50.000		90.9	70 - 130			
Benzene	46.3	2.5	50.000		92.5	70 - 130			
1,2-Dichloroethane	45.5	2.5	50.000		91.0	70 - 130			
Trichloroethene	48.1	2.5	50.000		96.1	70 - 130			
1,2-Dichloropropane	46.8	2.5	50.000		93.6	70 - 130			
Dibromomethane	53.7	2.5	50.000		107	70 - 130			
Bromodichloromethane	47.9	2.5	50.000		95.7	70 - 130			
Methyl Isobutyl Ketone	96.0	13	100.000		96.0	70 - 130			
cis-1,3-Dichloropropene	50.3	2.5	50.000		101	70 - 130			

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Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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**LCS (B6L1235-BS1) - Continued**

Prepared: 12/12/2016 Analyzed: 12/12/2016

Toluene	45.4	2.5	50.000		90.8	70 - 130			
trans-1,3-Dichloropropene	50.2	2.5	50.000		100	70 - 130			
2-Hexanone	98.2	13	100.000		98.2	70 - 130			
1,1,2-Trichloroethane	49.7	2.5	50.000		99.5	70 - 130			
Tetrachloroethene	46.1	2.5	50.000		92.1	70 - 130			
1,3-Dichloropropane	48.5	2.5	50.000		96.9	70 - 130			
Dibromochloromethane	53.0	2.5	50.000		106	70 - 130			
1,2-Dibromoethane	51.2	2.5	50.000		102	70 - 130			
trans-1,4-Dichloro-2-Butene	49.5	13	50.000		99.0	70 - 130			
Chlorobenzene	47.0	2.5	50.000		94.0	70 - 130			
1,1,1,2-Tetrachloroethane	50.0	2.5	50.000		100	70 - 130			
Ethylbenzene	44.9	2.5	50.000		89.8	70 - 130			
m+p Xylenes	93.5	2.5	100.000		93.5	70 - 130			
o-Xylene	46.3	2.5	50.000		92.5	70 - 130			
Styrene	49.8	2.5	50.000		99.7	70 - 130			
Bromoform	54.9	2.5	50.000		110	70 - 130			
Isopropylbenzene	47.1	2.5	50.000		94.2	70 - 130			
1,1,2,2-Tetrachloroethane	49.8	2.5	50.000		99.6	70 - 130			
Bromobenzene	44.7	2.5	50.000		89.4	70 - 130			
1,2,3-Trichloropropane	47.8	2.5	50.000		95.6	70 - 130			
n-Propylbenzene	45.0	2.5	50.000		89.9	70 - 130			
2-Chlorotoluene	44.8	2.5	50.000		89.5	70 - 130			
4-Chlorotoluene	45.3	2.5	50.000		90.5	70 - 130			
1,3,5-Trimethylbenzene	45.8	2.5	50.000		91.6	70 - 130			
tert-Butylbenzene	46.3	2.5	50.000		92.6	70 - 130			
1,2,4-Trimethylbenzene	46.6	2.5	50.000		93.2	70 - 130			
sec-Butylbenzene	47.4	2.5	50.000		94.9	70 - 130			
1,3-Dichlorobenzene	47.7	2.5	50.000		95.3	70 - 130			
4-Isopropyltoluene	47.7	2.5	50.000		95.4	70 - 130			
1,4-Dichlorobenzene	48.5	2.5	50.000		96.9	70 - 130			
1,2-Dichlorobenzene	49.5	2.5	50.000		99.0	70 - 130			
n-Butylbenzene	46.6	2.5	50.000		93.2	70 - 130			
1,2-Dibromo-3-Chloropropane	55.2	2.5	50.000		110	70 - 130			
1,2,4-Trichlorobenzene	54.8	2.5	50.000		110	70 - 130			
Hexachlorobutadiene	53.7	2.5	50.000		107	70 - 130			
Naphthalene	53.6	2.5	50.000		107	70 - 130			
1,2,3-Trichlorobenzene	54.5	2.5	50.000		109	70 - 130			

Surrogate: 1,2-Dichloroethane-d4

99.9 70 - 130

Surrogate: Toluene-d8

99.3 70 - 130

Surrogate: 4-Bromofluorobenzene

104 70 - 130

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

**Batch B6L1238 - CT-ETPH**

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B6L1238-BLK1)</b>									Prepared: 12/12/2016 Analyzed: 12/12/2016
ETPH	ND	0.10							
<i>Surrogate: Octacosane</i>					79.5	50 - 150			
<b>LCS (B6L1238-BS1)</b>									Prepared: 12/12/2016 Analyzed: 12/12/2016
ETPH	3.30	0.10	5.000		66.1	60 - 120			
<i>Surrogate: Octacosane</i>					82.8	50 - 150			

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

**Batch B6L1302 - EPA 7471B**

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B6L1302-BLK1)</b>									Prepared: 12/12/2016 Analyzed: 12/13/2016
Mercury	ND	0.20							
<b>LCS (B6L1302-BS1)</b>									Prepared: 12/12/2016 Analyzed: 12/13/2016
Mercury	2.49	0.20	2.500		99.6	80 - 120			

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

**Batch B6L1411 - EPA 7471B**

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B6L1411-BLK1)</b>									Prepared: 12/14/2016 Analyzed: 12/14/2016
Mercury	ND	0.20							
<b>LCS (B6L1411-BS1)</b>									Prepared: 12/14/2016 Analyzed: 12/14/2016
Mercury	2.60	0.20	2.500		104	80 - 120			
<b>Duplicate (B6L1411-DUP1)</b>									Prepared: 12/14/2016 Analyzed: 12/14/2016
Mercury	199	13		202			1.57	20	



CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

## Batch B6L1435 - EPA 8260C

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B6L1435-BLK1)</b>									
					Prepared: 12/14/2016 Analyzed: 12/14/2016				
Dichlorodifluoromethane	ND	10							
Chloromethane	ND	2.7							
Vinyl Chloride	ND	1.6							
Bromomethane	ND	1.0							
Chloroethane	ND	5.0							
Trichlorofluoromethane	ND	25							
Acetone	ND	50							
Acrylonitrile	ND	0.50							
Trichlorotrifluoroethane	ND	25							
1,1-Dichloroethene	ND	1.0							
Methylene Chloride	ND	5.0							
Carbon Disulfide	ND	1.0							
Methyl-t-Butyl Ether (MTBE)	ND	5.0							
trans-1,2-Dichloroethene	ND	1.0							
1,1-Dichloroethane	ND	1.0							
2-Butanone (MEK)	ND	25							
2,2-Dichloropropane	ND	1.0							
cis-1,2-Dichloroethene	ND	1.0							
Chloroform	ND	1.0							
Tetrahydrofuran	ND	5.0							
1,1,1-Trichloroethane	ND	1.0							
Carbon Tetrachloride	ND	1.0							
1,1-Dichloropropene	ND	1.0							
Benzene	ND	1.0							
1,2-Dichloroethane	ND	1.0							
Trichloroethene	ND	1.0							
1,2-Dichloropropane	ND	1.0							
Dibromomethane	ND	1.0							
Bromodichloromethane	ND	0.50							
Methyl Isobutyl Ketone	ND	25							
cis-1,3-Dichloropropene	ND	0.50							
Toluene	ND	1.0							
trans-1,3-Dichloropropene	ND	0.50							
2-Hexanone	ND	25							
1,1,2-Trichloroethane	ND	1.0							
Tetrachloroethene	ND	1.0							
1,3-Dichloropropane	ND	0.50							
Dibromochloromethane	ND	0.50							
1,2-Dibromoethane	ND	0.50							
trans-1,4-Dichloro-2-Butene	ND	10							
Chlorobenzene	ND	1.0							
1,1,1,2-Tetrachloroethane	ND	1.0							
Ethylbenzene	ND	1.0							
m+p Xylenes	ND	1.0							
o-Xylene	ND	1.0							
Styrene	ND	1.0							
Bromoform	ND	1.0							
Isopropylbenzene	ND	1.0							
1,1,2,2-Tetrachloroethane	ND	0.50							
Bromobenzene	ND	1.0							
1,2,3-Trichloropropane	ND	1.0							

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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**Blank (B6L1435-BLK1) - Continued**

Prepared: 12/14/2016 Analyzed: 12/14/2016

n-Propylbenzene	ND	1.0							
2-Chlorotoluene	ND	1.0							
4-Chlorotoluene	ND	1.0							
1,3,5-Trimethylbenzene	ND	1.0							
tert-Butylbenzene	ND	1.0							
1,2,4-Trimethylbenzene	ND	1.0							
sec-Butylbenzene	ND	1.0							
1,3-Dichlorobenzene	ND	1.0							
4-Isopropyltoluene	ND	1.0							
1,4-Dichlorobenzene	ND	1.0							
1,2-Dichlorobenzene	ND	1.0							
n-Butylbenzene	ND	1.0							
1,2-Dibromo-3-Chloropropane	ND	1.0							
1,2,4-Trichlorobenzene	ND	1.0							
Hexachlorobutadiene	ND	0.45							
Naphthalene	ND	1.0							
1,2,3-Trichlorobenzene	ND	1.0							

Surrogate: 1,2-Dichloroethane-d4

102 70 - 130

Surrogate: Toluene-d8

102 70 - 130

Surrogate: 4-Bromofluorobenzene

102 70 - 130

**LCS (B6L1435-BS1)**

Prepared: 12/14/2016 Analyzed: 12/14/2016

Dichlorodifluoromethane	116	10	50.000		<b>231</b>	70 - 130			<b>H</b>
Chloromethane	67.2	2.7	50.000		<b>134</b>	70 - 130			<b>H</b>
Vinyl Chloride	67.5	1.6	50.000		<b>135</b>	70 - 130			<b>H</b>
Bromomethane	62.6	1.0	50.000		125	70 - 130			
Chloroethane	80.9	5.0	50.000		<b>162</b>	70 - 130			<b>H</b>
Trichlorofluoromethane	70.0	25	50.000		<b>140</b>	70 - 130			<b>H</b>
Acetone	114	50	100.000		114	70 - 130			
Acrylonitrile	53.8	0.50	50.000		108	70 - 130			
Trichlorotrifluoroethane	48.8	25	50.000		97.6	70 - 130			
1,1-Dichloroethene	54.2	1.0	50.000		108	70 - 130			
Methylene Chloride	43.1	5.0	50.000		86.2	70 - 130			
Carbon Disulfide	54.4	1.0	50.000		109	70 - 130			
Methyl-t-Butyl Ether (MTBE)	52.5	5.0	50.000		105	70 - 130			
trans-1,2-Dichloroethene	53.1	1.0	50.000		106	70 - 130			
1,1-Dichloroethane	55.0	1.0	50.000		110	70 - 130			
2-Butanone (MEK)	106	25	100.000		106	70 - 130			
2,2-Dichloropropane	58.1	1.0	50.000		116	70 - 130			
cis-1,2-Dichloroethene	55.6	1.0	50.000		111	70 - 130			
Chloroform	52.6	1.0	50.000		105	70 - 130			
Tetrahydrofuran	57.5	5.0	50.000		115	70 - 130			
1,1,1-Trichloroethane	52.3	1.0	50.000		105	70 - 130			
Carbon Tetrachloride	51.3	1.0	50.000		103	70 - 130			
1,1-Dichloropropene	54.6	1.0	50.000		109	70 - 130			
Benzene	51.8	1.0	50.000		104	70 - 130			
1,2-Dichloroethane	53.3	1.0	50.000		107	70 - 130			
Trichloroethene	50.2	1.0	50.000		100	70 - 130			
1,2-Dichloropropane	53.2	1.0	50.000		106	70 - 130			
Dibromomethane	48.7	1.0	50.000		97.3	70 - 130			
Bromodichloromethane	51.7	0.50	50.000		103	70 - 130			
Methyl Isobutyl Ketone	118	25	100.000		118	70 - 130			
cis-1,3-Dichloropropene	52.8	0.50	50.000		106	70 - 130			

Complete Environmental Testing, Inc.

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CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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**LCS (B6L1435-BS1) - Continued**

Prepared: 12/14/2016 Analyzed: 12/14/2016

Toluene	52.2	1.0	50.000		104	70 - 130			
trans-1,3-Dichloropropene	57.0	0.50	50.000		114	70 - 130			
2-Hexanone	119	25	100.000		119	70 - 130			
1,1,2-Trichloroethane	53.3	1.0	50.000		107	70 - 130			
Tetrachloroethene	50.7	1.0	50.000		101	70 - 130			
1,3-Dichloropropane	51.7	0.50	50.000		103	70 - 130			
Dibromochloromethane	50.8	0.50	50.000		102	70 - 130			
1,2-Dibromoethane	50.2	0.50	50.000		100	70 - 130			
trans-1,4-Dichloro-2-Butene	53.7	10	50.000		107	70 - 130			
Chlorobenzene	48.6	1.0	50.000		97.2	70 - 130			
1,1,1,2-Tetrachloroethane	51.9	1.0	50.000		104	70 - 130			
Ethylbenzene	51.1	1.0	50.000		102	70 - 130			
m+p Xylenes	106	1.0	100.000		106	70 - 130			
o-Xylene	53.0	1.0	50.000		106	70 - 130			
Styrene	54.0	1.0	50.000		108	70 - 130			
Bromoform	50.9	1.0	50.000		102	70 - 130			
Isopropylbenzene	53.3	1.0	50.000		107	70 - 130			
1,1,2,2-Tetrachloroethane	50.3	0.50	50.000		101	70 - 130			
Bromobenzene	51.8	1.0	50.000		104	70 - 130			
1,2,3-Trichloropropane	51.5	1.0	50.000		103	70 - 130			
n-Propylbenzene	52.0	1.0	50.000		104	70 - 130			
2-Chlorotoluene	52.4	1.0	50.000		105	70 - 130			
4-Chlorotoluene	53.1	1.0	50.000		106	70 - 130			
1,3,5-Trimethylbenzene	53.6	1.0	50.000		107	70 - 130			
tert-Butylbenzene	54.3	1.0	50.000		109	70 - 130			
1,2,4-Trimethylbenzene	54.4	1.0	50.000		109	70 - 130			
sec-Butylbenzene	53.1	1.0	50.000		106	70 - 130			
1,3-Dichlorobenzene	50.6	1.0	50.000		101	70 - 130			
4-Isopropyltoluene	54.9	1.0	50.000		110	70 - 130			
1,4-Dichlorobenzene	48.8	1.0	50.000		97.5	70 - 130			
1,2-Dichlorobenzene	52.0	1.0	50.000		104	70 - 130			
n-Butylbenzene	53.6	1.0	50.000		107	70 - 130			
1,2-Dibromo-3-Chloropropane	46.8	1.0	50.000		93.6	70 - 130			
1,2,4-Trichlorobenzene	47.3	1.0	50.000		94.6	70 - 130			
Hexachlorobutadiene	42.6	0.45	50.000		85.3	70 - 130			
Naphthalene	49.6	1.0	50.000		99.2	70 - 130			
1,2,3-Trichlorobenzene	46.9	1.0	50.000		93.9	70 - 130			

Surrogate: 1,2-Dichloroethane-d4

104 70 - 130

Surrogate: Toluene-d8

102 70 - 130

Surrogate: 4-Bromofluorobenzene

96.0 70 - 130

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

**Batch B6L1516 - EPA 245.2**

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B6L1516-BLK1)</b>									Prepared: 12/15/2016 Analyzed: 12/16/2016
Mercury	ND	0.00040							
<b>LCS (B6L1516-BS1)</b>									Prepared: 12/15/2016 Analyzed: 12/16/2016
Mercury	0.00501	0.00040	0.005		100	90 - 110			

CET #:6120201

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

**Batch B6L1907 - EPA 6010C**

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B6L1907-BLK1)</b>									Prepared: 12/19/2016 Analyzed: 12/19/2016
Arsenic	ND	1.0							
<b>LCS (B6L1907-BS1)</b>									Prepared: 12/19/2016 Analyzed: 12/19/2016
Arsenic	26.1	1.0	25.000		104	80 - 120			
<b>Duplicate (B6L1907-DUP1)</b>									Prepared: 12/19/2016 Analyzed: 12/19/2016
Arsenic	5.14	1.3		4.66			9.78	35	
<b>Matrix Spike (B6L1907-MS1)</b>									Prepared: 12/19/2016 Analyzed: 12/19/2016
Arsenic	36.4	1.3	31.630	4.66	100	75 - 125			
<b>Matrix Spike Dup (B6L1907-MSD1)</b>									Prepared: 12/19/2016 Analyzed: 12/19/2016
Arsenic	35.0	1.3	31.630	4.66	96.0	75 - 125	3.72	35	

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

Sincerely,



David Ditta  
Laboratory Director

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample homogeneity may be a problem.
- + - The Surrogate was diluted out.
- \*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- \*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- \*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- \*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- I- The Analyte exceeds %RSD limits for the Initial Calibration. This is a non-directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at the specified detection limit

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.



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### Quality Control Definitions and Abbreviations

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

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



Connecticut Laboratory Certification PH0116  
Massachusetts Laboratory Certification M-CT903

New York Certification 11982  
Rhode Island Certification 199



## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

**Client:** Arcadis, Sandy Hook CT

**Project Location:** Former Mallory Hat Factory, Danbury

**Project Number:** HT212651.0000.00001

**Laboratory Sample ID(s):**

6120201-01 thru 6120201-51

**Sample Date(s):**

12/07/2016

**List RCP Methods Used:**

CT-ETPH, EPA 245.2, EPA 6010C, EPA 7471B, EPA 8082A, EPA 8260C, EPA 8270D

**CET #:** 6120201

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

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

This form may not be altered and all questions must be answered.

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

**Authorized Signature:**

**Position:** Laboratory Director

**Printed Name:** David Ditta

**Date:** 12/16/2016

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

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



## RCP Case Narrative

4- See Exceptions Report Below

6- The client requested a subset of the RCP metals list and CT8270 list.

### 4- Exceptions Report

Analyte	QC Type	Exception	Result	RPD	Recovery (%)	Batch/Sequence Sample ID
Mercury	MS	Low			-17.0	6120201-28
Mercury	MSD	Low			29.0	6120201-28
Dichlorodifluoromethane	LCS	High	74.1		148	B6L1235
Chloroethane	LCS	High	80.9		162	B6L1435
Chloromethane	LCS	High	67.2		134	B6L1435
Dichlorodifluoromethane	LCS	High	116		231	B6L1435
Trichlorofluoromethane	LCS	High	70.0		140	B6L1435
Vinyl Chloride	LCS	High	67.5		135	B6L1435
2-Butanone (MEK)	CC	Low	88.9		71.2	S6L1302
2-Hexanone	CC	Low	84.5		67.6	S6L1302
Acetone	CC	Low	63.2		50.6	S6L1302
Methyl Isobutyl Ketone	CC	Low	81.6		65.2	S6L1302
Methylene Chloride	CC	Low	21.3		42.7	S6L1302
Tetrahydrofuran	CC	Low	39.4		78.7	S6L1302
Bromomethane	CC	High	62.6		125	S6L1508
Chloroethane	CC	High	80.9		162	S6L1508
Chloromethane	CC	High	67.2		134	S6L1508
Dichlorodifluoromethane	CC	High	116		231	S6L1508
Trichlorofluoromethane	CC	High	70.0		140	S6L1508
Vinyl Chloride	CC	High	67.5		135	S6L1508

QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B6L1001		6120201-21	UST-1 4ft	CT-ETPH	Soil	12/07/2016
B6L1001		6120201-22	UST-N 4ft	CT-ETPH	Soil	12/07/2016
B6L1001		6120201-23	UST-NW 4ft	CT-ETPH	Soil	12/07/2016
B6L1001		6120201-24	UST-E 4ft	CT-ETPH	Soil	12/07/2016
B6L1238		6120201-50	AS-4	CT-ETPH	Water	12/07/2016
B6L0932	S6L0909	6120201-50	AS-4	EPA 200.7	Water	12/07/2016
B6L0932	S6L1916	6120201-50	AS-4	EPA 200.7	Water	12/07/2016
B6L1516		6120201-50	AS-4	EPA 245.2	Water	12/07/2016
B6L0915		6120201-50	AS-4	EPA 3005A	Water	12/07/2016
B6L1205	S6L1207	6120201-01	M-1	EPA 6010C	Soil	12/07/2016
B6L1205	S6L1207	6120201-03	M-3	EPA 6010C	Soil	12/07/2016
B6L1205	S6L1207	6120201-04	M-4	EPA 6010C	Soil	12/07/2016
B6L1205	S6L1207	6120201-06	M-6	EPA 6010C	Soil	12/07/2016
B6L1205	S6L1207	6120201-07	M-10	EPA 6010C	Soil	12/07/2016
B6L1205	S6L1207	6120201-30	MHS-2W 0ft	EPA 6010C	Soil	12/07/2016
B6L1205	S6L1207	6120201-42	AS-1 1ft	EPA 6010C	Soil	12/07/2016
B6L1205	S6L1207	6120201-43	AS-1 4ft	EPA 6010C	Soil	12/07/2016
B6L1205	S6L1207	6120201-44	AS-2 1ft	EPA 6010C	Soil	12/07/2016
B6L1205	S6L1207	6120201-46	AS-3 1ft	EPA 6010C	Soil	12/07/2016
B6L1205	S6L1207	6120201-48	AS-4 1ft	EPA 6010C	Soil	12/07/2016
B6L1205	S6L1207	6120201-49	AS-4 4ft	EPA 6010C	Soil	12/07/2016
B6L1907	S6L1904	6120201-25	MHS-2 0ft	EPA 6010C	Soil	12/07/2016
B6L1907	S6L1904	6120201-26	MHS-2 2ft	EPA 6010C	Soil	12/07/2016
B6L1907	S6L1904	6120201-27	MHS-2N 0ft	EPA 6010C	Soil	12/07/2016
B6L1907	S6L1904	6120201-28	MHS-2S 0ft	EPA 6010C	Soil	12/07/2016
B6L1907	S6L1904	6120201-29	MHS-2E 0ft	EPA 6010C	Soil	12/07/2016
B6L0928		6120201-01	M-1	EPA 7471B	Soil	12/07/2016
B6L0928		6120201-02	M-2	EPA 7471B	Soil	12/07/2016
B6L0928		6120201-03	M-3	EPA 7471B	Soil	12/07/2016
B6L0928		6120201-04	M-4	EPA 7471B	Soil	12/07/2016
B6L0928		6120201-05	M-5	EPA 7471B	Soil	12/07/2016
B6L0928		6120201-06	M-6	EPA 7471B	Soil	12/07/2016
B6L0928		6120201-07	M-10	EPA 7471B	Soil	12/07/2016
B6L0928		6120201-08	MHS-1 0ft	EPA 7471B	Soil	12/07/2016
B6L0928		6120201-09	MHS-1 2ft	EPA 7471B	Soil	12/07/2016
B6L0928		6120201-10	MHS-1 4ft	EPA 7471B	Soil	12/07/2016
B6L0928		6120201-11	MHS-1E 0ft	EPA 7471B	Soil	12/07/2016
B6L0928		6120201-12	MHS-1E 2ft	EPA 7471B	Soil	12/07/2016
B6L0928		6120201-13	MHS-1E 4ft	EPA 7471B	Soil	12/07/2016
B6L0928		6120201-14	MHS-1N 0ft	EPA 7471B	Soil	12/07/2016
B6L0935		6120201-15	MHS-1N 2ft	EPA 7471B	Soil	12/07/2016
B6L0935		6120201-16	MHS-1N 4ft	EPA 7471B	Soil	12/07/2016
B6L0935		6120201-17	MHS-1W 0ft	EPA 7471B	Soil	12/07/2016
B6L0935		6120201-18	MHS-1W 2ft	EPA 7471B	Soil	12/07/2016
B6L0935		6120201-19	MHS-1W 4ft	EPA 7471B	Soil	12/07/2016
B6L0935		6120201-20	MHS-1A 0ft	EPA 7471B	Soil	12/07/2016
B6L0935		6120201-25	MHS-2 0ft	EPA 7471B	Soil	12/07/2016
B6L0935		6120201-26	MHS-2 2ft	EPA 7471B	Soil	12/07/2016

B6L0935		6120201-27	MHS-2N 0ft	EPA 7471B	Soil	12/07/2016
B6L0935		6120201-28	MHS-2S 0ft	EPA 7471B	Soil	12/07/2016
B6L0935		6120201-29	MHS-2E 0ft	EPA 7471B	Soil	12/07/2016
B6L0935		6120201-30	MHS-2W 0ft	EPA 7471B	Soil	12/07/2016
B6L0935		6120201-31	MHS-3 0ft	EPA 7471B	Soil	12/07/2016
B6L1302		6120201-36	MHS-3W 0ft	EPA 7471B	Soil	12/07/2016
B6L1302		6120201-40	MHS-4E 0ft	EPA 7471B	Soil	12/07/2016
B6L1302		6120201-42	AS-1 1ft	EPA 7471B	Soil	12/07/2016
B6L1302		6120201-43	AS-1 4ft	EPA 7471B	Soil	12/07/2016
B6L1302		6120201-44	AS-2 1ft	EPA 7471B	Soil	12/07/2016
B6L1302		6120201-45	AS-2 4ft	EPA 7471B	Soil	12/07/2016
B6L1302		6120201-48	AS-4 1ft	EPA 7471B	Soil	12/07/2016
B6L1411		6120201-32	MHS-3 2ft	EPA 7471B	Soil	12/07/2016
B6L1411		6120201-33	MHS-3N 0ft	EPA 7471B	Soil	12/07/2016
B6L1411		6120201-34	MHS-3S 0ft	EPA 7471B	Soil	12/07/2016
B6L1411		6120201-35	MHS-3E 0ft	EPA 7471B	Soil	12/07/2016
B6L1411		6120201-37	MHS-4 0ft	EPA 7471B	Soil	12/07/2016
B6L1411		6120201-38	MHS-4 3ft	EPA 7471B	Soil	12/07/2016
B6L1411		6120201-39	MHS-4N 0ft	EPA 7471B	Soil	12/07/2016
B6L1411		6120201-41	MHS-4W 0ft	EPA 7471B	Soil	12/07/2016
B6L1411		6120201-46	AS-3 1ft	EPA 7471B	Soil	12/07/2016
B6L1411		6120201-47	AS-3 4ft	EPA 7471B	Soil	12/07/2016
B6L1411		6120201-49	AS-4 4ft	EPA 7471B	Soil	12/07/2016
B6L0933	S6L1208	6120201-21	UST-1 4ft	EPA 8082A	Soil	12/07/2016
B6L1235	S6L1302	6120201-21	UST-1 4ft	EPA 8260C	Soil	12/07/2016
B6L1435	S6L1508	6120201-50	AS-4	EPA 8260C	Water	12/07/2016
B6L1435	S6L1508	6120201-51	Trip Blank	EPA 8260C	Water	12/07/2016
B6L1203	S6L1509	6120201-21	UST-1 4ft	EPA 8270D	Soil	12/07/2016

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<b><i>CT-ETPH in Soil</i></b>	
ETPH	CT
<b><i>CT-ETPH in Water</i></b>	
ETPH	CT
<b><i>EPA 200.7 in Water</i></b>	
Lead	CT,MA,NY,RI
Arsenic	CT,MA,NY,RI
<b><i>EPA 245.2 in Water</i></b>	
Mercury	CT,NY
<b><i>EPA 6010C in Soil</i></b>	
Lead	CT,NY
Arsenic	CT,NY
<b><i>EPA 7471B in Soil</i></b>	
Mercury	CT,NY
<b><i>EPA 8082A in Soil</i></b>	
PCB-1016	CT,NY
PCB-1221	CT,NY
PCB-1232	CT,NY
PCB-1242	CT,NY
PCB-1248	CT,NY
PCB-1254	CT,NY
PCB-1260	CT,NY
PCB-1268	CT
<b><i>EPA 8260C in Soil</i></b>	
Dichlorodifluoromethane	CT,NY
Chloromethane	CT,NY
Vinyl Chloride	CT,NY
Bromomethane	CT,NY
Chloroethane	CT,NY
Trichlorofluoromethane	CT,NY
Acetone	CT,NY
Acrylonitrile	CT,NY
Trichlorotrifluoroethane	CT,NY
1,1-Dichloroethene	CT,NY
Methylene Chloride	CT,NY
Carbon Disulfide	CT,NY
Methyl-t-Butyl Ether (MTBE)	CT,NY
trans-1,2-Dichloroethene	CT,NY
1,1-Dichloroethane	CT,NY
2-Butanone (MEK)	CT,NY
2,2-Dichloropropane	CT,NY
cis-1,2-Dichloroethene	CT,NY
Chloroform	CT,NY
Tetrahydrofuran	CT
1,1,1-Trichloroethane	CT,NY

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<b><i>EPA 8260C in Soil</i></b>	
Carbon Tetrachloride	CT,NY
1,1-Dichloropropene	CT,NY
Benzene	CT,NY
1,2-Dichloroethane	CT,NY
Trichloroethene	CT,NY
1,2-Dichloropropane	CT,NY
Dibromomethane	CT,NY
Bromodichloromethane	CT,NY
Methyl Isobutyl Ketone	CT,NY
cis-1,3-Dichloropropene	CT,NY
Toluene	CT,NY
trans-1,3-Dichloropropene	CT,NY
2-Hexanone	CT,NY
1,1,2-Trichloroethane	CT,NY
Tetrachloroethene	CT,NY
1,3-Dichloropropane	CT,NY
Dibromochloromethane	CT,NY
1,2-Dibromoethane	CT,NY
trans-1,4-Dichloro-2-Butene	CT,NY
Chlorobenzene	CT,NY
1,1,1,2-Tetrachloroethane	CT,NY
Ethylbenzene	CT,NY
m+p Xylenes	CT,NY
o-Xylene	CT,NY
Styrene	CT,NY
Bromoform	CT,NY
Isopropylbenzene	CT,NY
1,1,2,2-Tetrachloroethane	CT,NY
Bromobenzene	CT,NY
1,2,3-Trichloropropane	CT,NY
n-Propylbenzene	CT,NY
2-Chlorotoluene	CT,NY
4-Chlorotoluene	CT,NY
1,3,5-Trimethylbenzene	CT,NY
tert-Butylbenzene	CT,NY
1,2,4-Trimethylbenzene	CT,NY
sec-Butylbenzene	CT,NY
1,3-Dichlorobenzene	CT,NY
4-Isopropyltoluene	CT,NY
1,4-Dichlorobenzene	CT,NY
1,2-Dichlorobenzene	CT,NY
n-Butylbenzene	CT,NY
1,2-Dibromo-3-Chloropropane	CT,NY
1,2,4-Trichlorobenzene	CT,NY
Hexachlorobutadiene	CT,NY
Naphthalene	CT,NY
1,2,3-Trichlorobenzene	CT
<b><i>EPA 8260C in Water</i></b>	
Dichlorodifluoromethane	CT,NY

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 8260C in Water</i>	
Chloromethane	CT,NY
Vinyl Chloride	CT,NY
Bromomethane	CT,NY
Chloroethane	CT,NY
Trichlorofluoromethane	CT,NY
Acetone	CT,NY
Acrylonitrile	CT,NY
Trichlorotrifluoroethane	CT,NY
1,1-Dichloroethene	CT,NY
Methylene Chloride	CT,NY
Carbon Disulfide	CT,NY
Methyl-t-Butyl Ether (MTBE)	CT,NY
trans-1,2-Dichloroethene	CT,NY
1,1-Dichloroethane	CT,NY
2-Butanone (MEK)	CT,NY
2,2-Dichloropropane	CT,NY
cis-1,2-Dichloroethene	CT,NY
Chloroform	CT,NY
Tetrahydrofuran	CT
1,1,1-Trichloroethane	CT,NY
Carbon Tetrachloride	CT,NY
1,1-Dichloropropene	CT,NY
Benzene	CT,NY
1,2-Dichloroethane	CT,NY
Trichloroethene	CT,NY
1,2-Dichloropropane	CT,NY
Dibromomethane	CT,NY
Bromodichloromethane	CT,NY
Methyl Isobutyl Ketone	CT,NY
cis-1,3-Dichloropropene	CT,NY
Toluene	CT,NY
trans-1,3-Dichloropropene	CT,NY
2-Hexanone	CT,NY
1,1,2-Trichloroethane	CT,NY
Tetrachloroethene	CT,NY
1,3-Dichloropropane	CT,NY
Dibromochloromethane	CT,NY
1,2-Dibromoethane	CT,NY
trans-1,4-Dichloro-2-Butene	CT,NY
Chlorobenzene	CT,NY
1,1,1,2-Tetrachloroethane	CT,NY
Ethylbenzene	CT,NY
m+p Xylenes	CT,NY
o-Xylene	CT,NY
Styrene	CT,NY
Bromoform	CT,NY
Isopropylbenzene	CT,NY
1,1,2,2-Tetrachloroethane	CT,NY
Bromobenzene	CT

CERTIFICATIONS

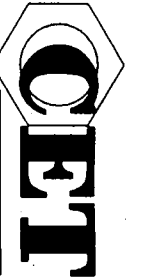
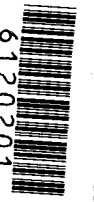
Certified Analyses included in this Report

Analyte	Certifications
<b><i>EPA 8260C in Water</i></b>	
1,2,3-Trichloropropane	CT,NY
n-Propylbenzene	CT,NY
2-Chlorotoluene	CT,NY
4-Chlorotoluene	CT,NY
1,3,5-Trimethylbenzene	CT,NY
tert-Butylbenzene	CT,NY
1,2,4-Trimethylbenzene	CT,NY
sec-Butylbenzene	CT,NY
1,3-Dichlorobenzene	CT,NY
4-Isopropyltoluene	CT,NY
1,4-Dichlorobenzene	CT,NY
1,2-Dichlorobenzene	CT,NY
n-Butylbenzene	CT,NY
1,2-Dibromo-3-Chloropropane	CT,NY
1,2,4-Trichlorobenzene	CT,NY
Hexachlorobutadiene	CT,NY
Naphthalene	CT,NY
1,2,3-Trichlorobenzene	CT
<b><i>EPA 8270D in Soil</i></b>	
Naphthalene	CT,NY
2-Methyl Naphthalene	CT,NY
Acenaphthylene	CT,NY
Acenaphthene	CT,NY
Fluorene	CT,NY
Phenanthrene	CT,NY
Anthracene	CT,NY
Fluoranthene	CT,NY
Pyrene	CT,NY
Benzo[a]anthracene	CT,NY
Chrysene	CT,NY
Benzo[b]fluoranthene	CT,NY
Benzo[k]fluoranthene	CT,NY
Benzo[a]pyrene	CT,NY
Indeno[1,2,3-cd]pyrene	CT,NY
Dibenz[a,h]anthracene	CT,NY
Benzo[g,h,i]perylene	CT,NY

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2018
MA	Massachusetts Laboratory Certification	M-CT903	06/30/2017
NY	New York Certification (NELAC)	11982	04/01/2017
RI	Rhode Island Certification	LAO 00227	12/31/2016





COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client:

CET

Additional Analysis

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

Table with columns: Sample ID, Sample Depths (Units), Collection Date/Time, Matrix (A=Air, S=Soil, W=Water, DW=Drinking Water, C=Cassette, Solid, Wipe, Other), Turnaround Time (Same Day, Next Day, 2-3 Days, Std (5-7 Days)), and checkboxes for various analytes.

Table with columns: Sample ID (M-1 to MHS-1), Sample Depths, Collection Date/Time, Matrix, Turnaround Time, and checkboxes for analytes (8260 CT List, 8260 Aromatics, 8260 Halogens, 624, CT ETPH, 8270 CT List, 8270 PNAs, PCBs, Pesticides, 13 Priority Poll, 8 RCRA, TOTAL Hg, TCLP, SPLP, Field Filtered, Lab To Filter).

Client / Reporting Information section containing fields for Company Name (ALCADIS), Address (75 GLEN RD SUITE 305), City (SANDY HOOK CT), State (CT), Zip (06482), Report to (Russ DiCenzo), and Phone/Fax numbers.

Project Information section containing fields for Project Contact (Russ DiCenzo), Project Name (FORNAC METALRY THAT FACILITY), Location (SANDY HOOK CT), Project # (HT212651.0000), and Collector(s) (CD SB).



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client: CET

Additional Analysis

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

Table with columns: Sample ID, Sample Depths (Units), Collection Date/Time, Matrix (A-Air, S-Soil, W-Water, etc.), Turnaround Time (Same Day, Next Day, etc.), Std (5-7 Days)

Main data table with columns: Sample ID, Sample Depths (Units), Collection Date/Time, Matrix, Turnaround Time, Std (5-7 Days)

Soil VOCs Only (M-MeOH, B-Bisulfate, W-Water, F-Vial, O-Other)
RELINQUISHED BY: [Signature] DATE/TIME: [Date]
RECEIVED BY: [Signature] DATE/TIME: [Date]

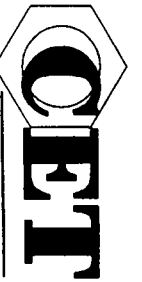
Client / Reporting Information
Company Name: AECADIS
Address: 75 GLEN RD SUITE 305
City: SHAWNY TOWN CT
State: CT
Zip: 06482

Project Contact: Lous Dicenzo
Project #: HT 212 651-0000-0001
Location: SHAWNY CT
Collector(s): RD 8B

Table with columns: Organics (8260 CT List, 8260 Aromatics, etc.), Metals (13 Priority Poll, 8 RCRA, etc.), Lab To Filter, TOTAL # OF CONT., NOTE #



6 1 2 0 2 0 1



COMPLETE ENVIRONMENTAL TESTING, INC.

# CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client: 12/17/16 1630 11  
CET

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

Sample ID	Sample Depths (Units)	Collection Date/Time	Matrix A-Air S-Soil W-Water DW-Drinking Water C-Cassette	Turnaround Time ** (check one)			
				Same Day *	Next Day *	2-3 Days *	Std (5-7 Days)

<del>UST-1</del>	<del>4'</del>	<del>12/17/16 1630</del>	S					X	
UST-1	4'	12/17/16 1630	S					X	
UST-N	4'	1010						X	
UST-NW	4'	1020						X	
UST-E	4'	1030						X	
MHS-2	0'	1405						X	
MHS-2	2'	1410						X	
MHS-2N	0'	1415						X	
MHS-2S	0'	1420						X	
MHS-2E	0'	1425						X	

PRESERVATIVE (Cl-HCl, N-HNO<sub>3</sub>, S-H<sub>2</sub>SO<sub>4</sub>, Na-NaOH, C=Cool, O-Other)

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

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

RELINQUISHED BY: DR DATE/TIME: 12/17/16 1630 RECEIVED BY: [Signature] DATE/TIME: 12/17/16 1447

RELINQUISHED BY: [Signature] DATE/TIME: 12/17/16 1630 RECEIVED BY: [Signature] DATE/TIME: 12/17/16 1447

**Client / Reporting Information**

Company Name: AECADIS  
Address: 75 GLEN RD SUITE 305  
City: STANBY HOOK CT State: CT Zip: 06482  
Report to: [Signature] E-mail: [Signature]  
Phone #: 203 514 4660 Fax #: 203 364 9800

	Organics					Metals (check all that apply)					Additional Analysis					TOTAL # OF CONT.	NOTE #
	8260 CT List	8260 Aromatics	8260 Halogens	624	CT ETPH	8270 CT List	8270 PNAs	PCBs	Pesticides	13 Priority Poll	8 RCRA	TOTAL Hg As	TCLP	SPLP	Field Filtered		

																	1	
																	3	
																	1	
																	1	
																	1	
																	1	
																	1	
																	12	

**NOTES:**  
Collect MS-MSD from this Sample

**Project Information**

Project Contact: [Signature] PO #: \_\_\_\_\_

Project: FAUNTA MANLEY HT FACILITY Project #: HT 212651.000.0001

Location: STANBY CT Collector(s): CD SB

QA/QC:  STD  Site Specific (MS/MSD) \*  RCP Pkg \*  DOAW \*

Data Report:  PDF  EDD - Specify Format  Other \_\_\_\_\_

RSR Reporting Limits (check one)  GA  GCB  SWP  Other \_\_\_\_\_

Laboratory Certification Needed (check one)  CT  NY  RI  MA

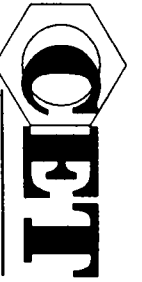
Temp Upon Receipt: 1 °C Evidence of Cooling:  Y  N SHEET \_\_\_\_\_ OF \_\_\_\_\_

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. REV: 06/14





6120201



COMPLETE ENVIRONMENTAL TESTING, INC.

# CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client:

CET

Additional Analysis

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

Sample ID	Sample Depths (Units)	Collection Date/Time	Matrix				Turnaround Time ** (check one)
			A-Air	S-Soil	W-Water	DM-Drinking Water	
MHS-4E	0'	12/17/16 0936	S				Std (5-7 Days)
MHS-4W	0'	0946	S				
AS-1	1'	1215					X
AS-1	4'	1220					X
AS-2	1'	1225					X
AS-2	4'	1230					X
AS-3	1'	1235					X
AS-3	4'	1240					X
AS-4	1'	1245					X
AS-4	4'	1250					X

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

Soil VOCs Only (M-MeOH B-Bisulfate W-Water F=Empiv E=Encore)

RELINQUISHED BY: *John Basso* DATE/TIME: *12/17/16 1630* RECEIVED BY: *John Basso*

RELINQUISHED BY: *John Basso* DATE/TIME: *12/17/16 1630* RECEIVED BY: *John Basso*

RELINQUISHED BY: *John Basso* DATE/TIME: *12/17/16 1630* RECEIVED BY: *John Basso*

**Client / Reporting Information**

Company Name: *ACORN*

Address: *75 GLEN RD SUITE 305*

City: *STANLEY* State: *CT* Zip: *06422*

Report to: *Bus Diaburo* E-mail: *Bus.Diaburo@Acorns.com*

Phone #: *203 574 4660* Fax #: *203 364 9800*

Organics	Metals (check all that apply)	Additional Analysis
8260 CT List		
8260 Aromatics		
8260 Halogens		
624		
CT ETPH		
8270 CT List		
8270 PNAs		
PCBs		
Pesticides		
13 Priority Poll		
8 RCRA		
TOTAL <i>Hg</i>		
TCLP		
SPLP		
Field Filtered		
Lab To Filter		
TOTAL <i>AS</i>		
TOTAL # OF CONT.		
NOTE #		

**Project Information**

Project Contact: *Bus Diaburo* PO #: \_\_\_\_\_

Project: *Farm Machinery Part Facility* Project #: *HT212 051 0000 0000*

Location: *Danbury CT* Collector(s): *ED SB*

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

Data Report:  PDF  EDD - Specify Format  Other

RSR Reporting Limits (check one)  GA  SWP  Other

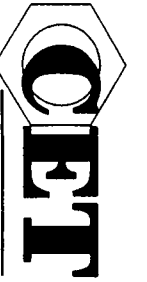
Laboratory Certification Needed (check one)  RCT  NY  RI  MA

Temp Upon Receipt: *1* °C Evidence of Cooling:  Y  N SHEET \_\_\_\_\_ OF \_\_\_\_\_

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. REV.06/14



6120201



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client: CET

Additional Analysis

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

Sample ID: **AS-4**  
Collection Date/Time: **12/31/16 14:00 W**  
Turnaround Time: **2-3 Days \***

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

REINQUISHED BY: **SPRINGER BIRKEN** DATE/TIME: **12/31/16 16:30** RECEIVED BY: **K. ADAM**

REINQUISHED BY: **REINQUISHED BY: [Signature]** DATE/TIME: **12/31/16 14:14** RECEIVED BY: **[Signature]**

RELINQUISHED BY: **[Signature]** DATE/TIME: **[Signature]** RECEIVED BY: **[Signature]**

Client / Reporting Information

Company Name: **ACCORDS**  
Address: **75 GLEN RD SUITE 305**  
City: **STUDY BROOK CT** State: **CT** ZIP: **06482**  
Report To: **LUIS DIEZ FERRIS** E-mail: **LUIS.DIEZ@ACCORDS.COM**  
Phone #: **203 514 4400** Fax #: **203 364 9800**

			Organics										Metals (check all that apply)							Additional Analysis			
8260 CT List	8260 Aromatics	8260 Halogens	624	CT ETPH	8270 CT List	8270 PNAs	PCBs	Pesticides	13 Priority Poll	8 RCRA	TOTAL	TCLP	SPLP	Field Filtered	Lab To Filter					TOTAL # OF CONT.			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	6	

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. FEV 06/14



Client: Mr. Russ Dirienzo  
Arcadis, Inc.  
75 Glen Road, Ste 305  
Sandy Hook, CT 06482

# Analytical Report

## CET# 6120493

Report Date: December 30, 2016  
Project: Former Mallory Hat Factory, Danbury  
Project Number: HT212651.0000.00001

Connecticut Laboratory Certificate: PH 0116  
Massachusetts laboratory Certificate: M-CT903



New York NELAP Accreditation: 11982  
Rhode Island Certification: 199

CET #:6120493

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

**SAMPLE SUMMARY**

The sample(s) were received at 1.1°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
UST-N 4ft	6120493-01	Soil	12/07/2016 10:10	12/08/2016
MHS-2N 0ft	6120493-02	Soil	12/07/2016 14:15	12/08/2016
MHS-3 2ft	6120493-03	Soil	12/07/2016 9:05	12/08/2016
MHS-3E 0ft	6120493-04	Soil	12/07/2016 9:20	12/08/2016
MHS-4W 0ft	6120493-05	Soil	12/07/2016 9:40	12/08/2016
AS-3 4ft	6120493-06	Soil	12/07/2016 12:40	12/08/2016

**Analyte: Percent Solids [SM 2540 G]**

**Analyst: JF**

**Matrix: Soil**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
6120493-01	UST-N 4ft	<b>89</b>	1.0	%	1	B6L2717	12/27/2016	12/28/2016 09:45	

**Analyte: SPLP Mercury [EPA 7470A]**

**Analyst: KP**

**Matrix: Extract**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
6120493-02	MHS-2N 0ft	<b>0.0044</b>	0.0020	mg/L	1	B6L2813	12/28/2016	12/29/2016 12:03	
6120493-03	MHS-3 2ft	<b>0.078</b>	0.020	mg/L	10	B6L2813	12/28/2016	12/29/2016 13:46	
6120493-04	MHS-3E 0ft	<b>0.044</b>	0.020	mg/L	10	B6L2813	12/28/2016	12/29/2016 13:59	
6120493-05	MHS-4W 0ft	<b>0.033</b>	0.020	mg/L	10	B6L2813	12/28/2016	12/29/2016 14:02	
6120493-06	AS-3 4ft	ND	0.0020	mg/L	1	B6L2813	12/28/2016	12/29/2016 12:30	



CET #:6120493

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

**Client Sample ID UST-N 4ft**

**Lab ID: 6120493-01**

**PCBs by ASE**

**Analyst: JS**

**Method: EPA 8082A**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.22	1	EPA 3545A	B6L2034	12/20/2016	12/21/2016 14:52	
PCB-1221	ND	0.22	1	EPA 3545A	B6L2034	12/20/2016	12/21/2016 14:52	
PCB-1232	ND	0.22	1	EPA 3545A	B6L2034	12/20/2016	12/21/2016 14:52	
PCB-1242	ND	0.22	1	EPA 3545A	B6L2034	12/20/2016	12/21/2016 14:52	
PCB-1248	ND	0.22	1	EPA 3545A	B6L2034	12/20/2016	12/21/2016 14:52	
PCB-1254	ND	0.22	1	EPA 3545A	B6L2034	12/20/2016	12/21/2016 14:52	
PCB-1260	ND	0.22	1	EPA 3545A	B6L2034	12/20/2016	12/21/2016 14:52	
PCB-1262	ND	0.22	1	EPA 3545A	B6L2034	12/20/2016	12/21/2016 14:52	
PCB-1268	ND	0.22	1	EPA 3545A	B6L2034	12/20/2016	12/21/2016 14:52	

<i>Surrogate: DCB [1C]</i>	73.9 %	30 - 150		B6L2034	12/20/2016	12/21/2016 14:52
<i>Surrogate: DCB [2C]</i>	90.4 %	30 - 150		B6L2034	12/20/2016	12/21/2016 14:52
<i>Surrogate: TCMX [1C]</i>	57.9 %	30 - 150		B6L2034	12/20/2016	12/21/2016 14:52
<i>Surrogate: TCMX [2C]</i>	69.9 %	30 - 150		B6L2034	12/20/2016	12/21/2016 14:52

CET #:6120493

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

### QUALITY CONTROL SECTION

#### Batch B6L2034 - EPA 8082A

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B6L2034-BLK1)</b>					Prepared: 12/20/2016 Analyzed: 12/21/2016				
PCB-1016	ND	0.20							
PCB-1221	ND	0.20							
PCB-1232	ND	0.20							
PCB-1242	ND	0.20							
PCB-1248	ND	0.20							
PCB-1254	ND	0.20							
PCB-1260	ND	0.20							
PCB-1268	ND	0.20							
PCB-1262	ND	0.20							
<i>Surrogate: TCMX [1C]</i>					86.1	30 - 150			
<i>Surrogate: TCMX [2C]</i>					77.8	30 - 150			
<i>Surrogate: DCB [1C]</i>					80.0	30 - 150			
<i>Surrogate: DCB [2C]</i>					81.0	30 - 150			
<b>LCS (B6L2034-BS1)</b>					Prepared: 12/20/2016 Analyzed: 12/21/2016				
PCB-1016	0.685	0.20	1.000		68.5	40 - 140			
PCB-1260	0.718	0.20	1.000		71.8	40 - 140			
<i>Surrogate: TCMX [1C]</i>					62.9	30 - 150			
<i>Surrogate: TCMX [2C]</i>					62.1	30 - 150			
<i>Surrogate: DCB [1C]</i>					69.9	30 - 150			
<i>Surrogate: DCB [2C]</i>					66.0	30 - 150			

CET #:6120493

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

**Batch B6L2813 - EPA 7470A**

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B6L2813-BLK1)</b>									Prepared: 12/28/2016 Analyzed: 12/29/2016
Mercury	ND	0.0020							
<b>LCS (B6L2813-BS1)</b>									Prepared: 12/28/2016 Analyzed: 12/29/2016
Mercury	0.00499	0.0020	0.005		99.8	80 - 120			
<b>Duplicate (B6L2813-DUP1)</b>									Prepared: 12/28/2016 Analyzed: 12/29/2016
Mercury	0.00452	0.0020		0.00438			3.15	20	
<b>Matrix Spike (B6L2813-MS1)</b>									Prepared: 12/28/2016 Analyzed: 12/29/2016
Mercury	0.00920	0.0020	0.005	0.00438	96.4	80 - 120			
<b>Matrix Spike Dup (B6L2813-MSD1)</b>									Prepared: 12/28/2016 Analyzed: 12/29/2016
Mercury	0.00930	0.0020	0.005	0.00438	98.4	80 - 120	1.08	20	



80 Lupes Drive  
Stratford, CT 06615

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

### Quality Control Definitions and Abbreviations

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

#### Flags:

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



Connecticut Laboratory Certification PH0116  
Massachusetts Laboratory Certification M-CT903

New York Certification 11982  
Rhode Island Certification 199

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

Sincerely,

This technical report was reviewed by Timothy Fusco



David Ditta  
Laboratory Director



Project Manager

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- \*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- \*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- \*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- \*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- I- The Analyte exceeds %RSD limits for the Initial Calibration. This is a non-directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified detection limit  
All analyses were performed in house unless a Reference Laboratory is listed.  
Samples will be disposed of 30 days after the report date.

CET #:6120493

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212651.0000.00001

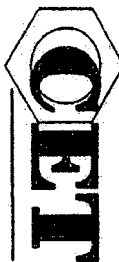
**CERTIFICATIONS**

**Certified Analyses included in this Report**

Analyte	Certifications
<i>EPA 8082A in Soil</i>	
PCB-1016	CT,NY
PCB-1221	CT,NY
PCB-1232	CT,NY
PCB-1242	CT,NY
PCB-1248	CT,NY
PCB-1254	CT,NY
PCB-1260	CT,NY
PCB-1268	CT

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2018
NY	New York Certification (NELAC)	11982	04/01/2017



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Solids Only:

Date and Time In Freezer

Client: 12/7/16 1:30 11'

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

Table with columns: Sample ID, Sample Depths (Units), Collection Date/Time, Matrix (A-Air, S-Soil, W-Water, etc.), Turnaround Time (Same Day, Next Day, 2-3 Days, Std (5-7 Days)), and various test results (8260 CT List, Organics, Metals, etc.).

Soil VOCs Only (M-MeOH, B-Bisulfate, W-Water, F-Vial, E-Empty, E-Ethylene)
RELINQUISHED BY: DATE/TIME
RECEIVED BY: DATE/TIME
RELINQUISHED BY: DATE/TIME
RECEIVED BY: DATE/TIME

Client / Reporting Information

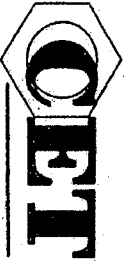
Company Name: HCARDS
Address: 75 Glen Rd Suite 305
City: Sandy Hook CT State: CT Zip: 06482
Phone #: 203 514 4600 Fax #: 203 364 9800
E-mail: bus.diaz@hcar.com

Table for Project Information and Laboratory Certification. Includes fields for Project Contact (Bus Diaz), Location (Sandy Hook CT), and various certification checkboxes (RSP, RCP, etc.).

NOTES: Collect MS-MSD from this sample

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. REV 08/14

6 1 2 0 4 9 3



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client:

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

Sample ID	Sample Depths (Units)	Collection Date/Time	Matrix A=Air, S=Soil, W=Water, D=Drinking Water, C=Casestite, Other (Specify)	Turnaround Time ** (check one)			
				Same Day *	Next Day *	2-3 Days *	Std (5-7 Days)
MHS-2W	0'	12/21/16 14:20	S	X			
MHS-3	0'			X			
MHS-3	2'			X			
MHS-3W	0'			X			
MHS-3S	0'			X			
MHS-3W	0'			X			
MHS-4	0'			X			
MHS-4	3'			X			
MHS-4W	0'			X			

Organics	Metals (check all that apply)	Additional Analysis
8260 CT List		
8260 Aromatics		
8260 Halogens		
624		
CT ETPH		
8270 CT List		
8270 PNAs		
PCBs		
Pesticides		
13 Priority Poll		
8 RCRA		
TOTAL Hg		
TCLP		
SPLP		
Field Filtered		
Lab To Filter		
TOTAL AS		
TOTAL # OF CONT.		
NOTE #		

Soil VOCs Only (M-MeOH B-Sodium W-Water F-Emply E-Encore)  
RELINQUISHED BY: [Signature] DATE/TIME: 12/21/16 14:20 RECEIVED BY: [Signature] DATE/TIME: 12/21/16 14:20  
RELINQUISHED BY: [Signature] DATE/TIME: 12/21/16 14:20 RECEIVED BY: [Signature] DATE/TIME: 12/21/16 14:20

NOTES:

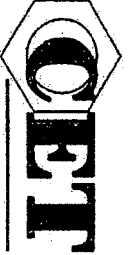
Project Contact: Russ Dierman  
Project: ~~Forest Nursery~~ ~~that Energy~~  
Location: Danbury CT  
Collector(s): PD SBProject #: H202451-0000-0000

Company Name: ACCADIS  
Address: 75 GLEN RD SUITE 305  
City: Danbury CT State: CT Zip: 06402  
Report to: Russ Dierman  
Phone #: 203 514 4660 Fax #: 203 384 9800  
E-mail: Russ.Dierman@accadis.com

Project Information  
PO #: \_\_\_\_\_  
Data Report:  PDF  EDD - Specify Format \_\_\_\_\_  
RSR Reporting Limits (check one):  GA  GBS  SWP  Other \_\_\_\_\_  
Laboratory Certification Needed (check one):  RPT  NY  RI  MA  
SHEET \_\_\_\_\_ OF \_\_\_\_\_



6 1 2 0 4 9 3



COMPLETE ENVIRONMENTAL TESTING, INC.

**CHAIN OF CUSTODY**

Volatile Soils Only:

Date and Time in Freezer

Client:

Additional Analysis

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

Sample ID	Sample Depths (Units)	Collection Date/Time	Matrix					Turnaround Time ** (check one)			
			A-Air	S-Soil	W-Water	DW-Drinking Water	C-Cosmetics				
MHS-4E	0'	12/17/10 0530	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Same Day * <input type="checkbox"/>	Next Day * <input type="checkbox"/>	2-3 Days * <input type="checkbox"/>	Sid (5-7 Days) <input checked="" type="checkbox"/>
MHS-4W	0'	0945	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
AS-1	1'	1215	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
AS-2	4'	1220	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
AS-2	1'	1225	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
AS-3	4'	1230	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
AS-3	1'	1235	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
AS-3	4'	1240	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
AS-4	1'	1245	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
AS-4	4'	1250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other) \_\_\_\_\_  
 PRESERVATIVE (Cl-HCl, N-HNO<sub>3</sub>, S-H<sub>2</sub>SO<sub>4</sub>, Na-NaOH, O-Cool, O-Other) \_\_\_\_\_  
 Soils VOCs Only (M-MeOH B-Bisulfate W-Water F-Vial E-Encore) \_\_\_\_\_  
 RELINQUISHED BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_ RECEIVED BY: \_\_\_\_\_  
 RELINQUISHED BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_ RECEIVED BY: \_\_\_\_\_  
 RELINQUISHED BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_ RECEIVED BY: \_\_\_\_\_

**Client / Reporting Information**

Company Name: ACUARDS  
 Address: 75 GLEN RD SUITE 305  
 City: STANLEY CT State: CT Zip: 06482  
 Report To: Paul DiCenzo E-mail: Paul.Dicenzo@Acuards.com  
 Phone # 203 574 4660 Fax # 203 364 9800

Organics	Metals (check all that apply)	Additional Analysis	TOTAL # OF CONT.	NOTE #
8260 CT List	<input checked="" type="checkbox"/>			
8260 Aromatics	<input checked="" type="checkbox"/>			
8260 Halogens	<input checked="" type="checkbox"/>			
624	<input checked="" type="checkbox"/>			
CT ETPH	<input checked="" type="checkbox"/>			
8270 CT List	<input checked="" type="checkbox"/>			
8270 PNAs	<input checked="" type="checkbox"/>			
PCBs	<input checked="" type="checkbox"/>			
Pesticides	<input checked="" type="checkbox"/>			
13 Priority Poll	<input checked="" type="checkbox"/>			
8 RCRA	<input checked="" type="checkbox"/>			
TOTAL Hg	<input checked="" type="checkbox"/>			
TCLP	<input checked="" type="checkbox"/>			
SPLP	<input checked="" type="checkbox"/>			
Field Filtered	<input checked="" type="checkbox"/>			
Lab To Filter	<input checked="" type="checkbox"/>			
TOTAL AS	<input checked="" type="checkbox"/>			

**Project Information**

Project Contact: Paul DiCenzo PO #: \_\_\_\_\_  
 Project: General Maturity Test Facility Project #: HTZ12 651 0300 03001  
 Location: Providence CT Collector(s): PD 803  
 QA/QC:  Std  Site Specific (MS/MSD) \*  RCP Pkg \*  DDWV \*  
 Data Report:  PDF  EDD - Specify Format  GA  SWP  RI  MA  
 RSR Reporting Limits (check one)  GA  RGB  SWP  Other \_\_\_\_\_  
 Laboratory Certification Needed (check one)  RCT  NY  RI  MA  
 Laboratory Upon Receipt:  Evidence of Cooling  SHEET \_\_\_\_\_ OF \_\_\_\_\_

**NOTES:**

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. REV. 06/14



Client: Mr. Ryan Charney  
Arcadis, Inc.  
75 Glen Road, Ste 305  
Sandy Hook, CT 06482

# Analytical Report

## CET# 7100125

Report Date: October 06, 2017  
Project: Mallory Hat Factory, Danbury  
Project Number: HT212651.0017.00001

Connecticut Laboratory Certificate: PH 0116  
Massachusetts laboratory Certificate: M-CT903



New York NELAP Accreditation: 11982  
Rhode Island Certification: 199

CET # : 7100125

Project: Mallory Hat Factory, Danbury

Project Number: HT212651.0017.00001

**SAMPLE SUMMARY**

The sample(s) were received at 4.1°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
SW-1DG	7100125-01	Water	10/04/2017 12:40	10/05/2017
SW-2DG	7100125-02	Water	10/04/2017 12:30	10/05/2017
SW-1UG	7100125-03	Water	10/04/2017 12:50	10/05/2017
SW-2UG	7100125-04	Water	10/04/2017 13:00	10/05/2017

**Analyte: Mercury [EPA 245.2]**

**Analyst: SFJ**

**Matrix: Water**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
7100125-01	SW-1DG	ND	0.00020	mg/L	1	B7J0532	10/06/2017	10/06/2017 12:15	
7100125-02	SW-2DG	ND	0.00020	mg/L	1	B7J0532	10/06/2017	10/06/2017 12:17	
7100125-03	SW-1UG	ND	0.00020	mg/L	1	B7J0532	10/06/2017	10/06/2017 12:22	
7100125-04	SW-2UG	ND	0.00020	mg/L	1	B7J0532	10/06/2017	10/06/2017 12:24	

CET # : 7100125

Project: Mallory Hat Factory, Danbury

Project Number: HT212651.0017.00001

### QUALITY CONTROL SECTION

#### Batch B7J0532 - EPA 245.2

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B7J0532-BLK1)</b>									Prepared: 10/6/2017 Analyzed: 10/6/2017
Mercury	ND	0.00020							
<b>LCS (B7J0532-BS1)</b>									Prepared: 10/6/2017 Analyzed: 10/6/2017
Mercury	0.00503	0.00020	0.005		101	95 - 105			

CET # : 7100125

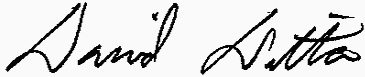
Project: Mallory Hat Factory, Danbury

Project Number: HT212651.0017.00001

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

Sincerely,

This technical report was reviewed by Robert Blake



David Ditta  
Laboratory Director

Project Manager

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- \*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- \*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- \*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- \*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- I- The Analyte exceeds %RSD limits for the Initial Calibration. This is a non-directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

RL is the Reporting Limit

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.

CET # : 7100125

Project: Mallory Hat Factory, Danbury

Project Number: HT212651.0017.00001



80 Lupes Drive  
Stratford, CT 06615

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

## Quality Control Definitions and Abbreviations

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

### Flags:

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



Connecticut Laboratory Certification PH0116  
Massachusetts Laboratory Certification M-CT903

New York NELAP Accreditation 11982  
Rhode Island Certification 199

Complete Environmental Testing, Inc.

80 Lupes Drive, Stratford, CT 06615 • Tel: 203-377-9984 • Fax: 203-377-9952 • www.cetlabs.com



## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

**Client:** Arcadis, Sandy Hook CT

**Project Location:** Mallory Hat Factory, Danbury

**Project Number:** HT212651.0017.00001

**Laboratory Sample ID(s):**

7100125-01 thru 7100125-04

**Sample Date(s):**

10/04/2017

**List RCP Methods Used:**

**CET #:** 7100125

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

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

This form may not be altered and all questions must be answered.

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

**Authorized Signature:**

**Position:** Laboratory Director

**Printed Name:** David Ditta

**Date:** 10/06/2017

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

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

## RCP Case Narrative

6- Client requested a subset of the RCP metals list.

### QC Batch/Sequence Report

<b>Batch</b>	<b>Sequence</b>	<b>CET ID</b>	<b>Sample ID</b>	<b>Specific Method</b>	<b>Matrix</b>	<b>Collection Date</b>
B7J0532		7100125-01	SW-1DG	EPA 245.2	Water	10/04/2017
B7J0532		7100125-02	SW-2DG	EPA 245.2	Water	10/04/2017
B7J0532		7100125-03	SW-1UG	EPA 245.2	Water	10/04/2017
B7J0532		7100125-04	SW-2UG	EPA 245.2	Water	10/04/2017





# CHAIN OF CUSTODY

Volatiles Soils Only:  
 Date and Time in Freezer  
 Client: Town of Danbury, CT  
 CET: \_\_\_\_\_

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

Sample ID/Sample Depths  
 (Include Units for any sample depths provided)

Sample ID/Sample Depths	Collection Date/Time	Matrix
SW-1DG	10/4/17 1240	W
SW-2DG	10/4/17 1230	W
SW-1UG	10/4/17 1250	W
SW-2UG	10/4/17 1300	W

Turnaround Time ** (check one)	Same Day *	Next Day *	Two Day *	Three Day *	Std (5-7 Days)

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

CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)  
 SOIL VOCs ONLY (M-MeOH Sodium B-Bisulfate W-Water F-Empty E-Encore)  
 RELINQUISHED BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_ RECEIVED BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_  
 RELINQUISHED BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_ RECEIVED BY: \_\_\_\_\_ DATE/TIME: \_\_\_\_\_

Client / Reporting Information  
 Company Name: Arcadis  
 Address: 75 Glen Rd. Ste. 305  
 City: Sandy Hook, CT State: 06482 Zip: \_\_\_\_\_  
 Report to: (203) 364-9700 E-mail: Ryan.Cherny@Arcadis.com

Additional charge may apply. \*\*TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will be business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.

8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs <input type="checkbox"/> SOX <input type="checkbox"/> ASE	Pesticides	Metals				Dissolved	Field Filtered	Lab to Filter	TOTAL # OF CONT.	NOTE #
								8 RCRA	13 Priority Poll	15 CT DEP	Total Hg					

NOTES:  
SOILS WITH SAMPLES, LOW DETECTION LIMITS

Project Information  
 Project: Mallory Hat Factory PO #: \_\_\_\_\_  
 Location: Danbury, CT Project #: HT212651.0017.00001  
 Collector(s): ZC

QA/QC:  Std  Site Specific (MS/MSD) \*  RCP Pkg \*  DOAW \*  
 Data Report:  PDF  EDD - Specify Format \_\_\_\_\_ Other \_\_\_\_\_  
 RSR Reporting Limits (check one)  GA  GB  SWP  Other \_\_\_\_\_  
 Laboratory Certification Needed (check one)  CT  NY  RI  MA  
 Temp Upon Receipt: 4°C Evidence of Cooling:  Y  N  
 PAGE 1 OF 1

Client: Mr. Paul Natoli  
Arcadis, Inc.  
75 Glen Road, Ste 305  
Sandy Hook, CT 06482

# Analytical Report

## CET# 9010396R



Report Date: January 28, 2019  
Project: Mallory Hat Factory, Danbury  
Project Number: HT212711.0000.00001

Connecticut Laboratory Certificate: PH 0116  
Massachusetts Laboratory Certificate: M-CT903  
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982  
Pennsylvania Certificate: 68-02927

CET #:9010396

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**SAMPLE SUMMARY**

The sample(s) were received at 3.1°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
A-9 conc	9010396-01	Solid	1/16/2019	01/17/2019
MHS-3W1 conc	9010396-02	Solid	1/16/2019	01/17/2019
PLG conc	9010396-03	Solid	1/16/2019	01/17/2019
A-6 conc	9010396-04	Solid	1/16/2019	01/17/2019

**Analyte: Mercury [EPA 7471B]**

**Analyst: SFJ**

**Matrix: Solid**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9010396-01	A-9 conc	ND	0.12	mg/kg	1	B9A1805	01/18/2019	01/18/2019 11:01	
9010396-02	MHS-3W1 conc	ND	0.13	mg/kg	1	B9A1805	01/18/2019	01/18/2019 11:03	
9010396-03	PLG conc	ND	0.12	mg/kg	1	B9A1805	01/18/2019	01/18/2019 11:05	
9010396-04	A-6 conc	ND	0.13	mg/kg	1	B9A1805	01/18/2019	01/18/2019 11:08	

**Client Sample ID A-9 conc**

**Lab ID: 9010396-01**

**Total Metals**

**Analyst: SS**

**Method: EPA 6010C**

**Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
<b>Arsenic</b>	<b>2.7</b>	0.97	1	EPA 3051A	B9A2401	01/24/2019	01/24/2019 10:11	
<b>Lead</b>	<b>8.7</b>	1.9	1	EPA 3051A	B9A2401	01/24/2019	01/24/2019 10:11	

**Conn. Extractable TPH**

**Analyst: KER**

**Method: CT-ETPH**

**Matrix: Solid**

Analyte	Result (mg/kg)	RL (mg/kg)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	98	1	EPA 3550C	B9A2226	01/22/2019	01/23/2019 03:35	
<i>Surrogate: Octacosane</i>	<i>105 %</i>	<i>50 - 150</i>			B9A2226	01/22/2019	<i>01/23/2019 03:35</i>	

CET #:9010396

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Client Sample ID MHS-3W1 conc**

**Lab ID: 9010396-02**

**Total Metals**

**Method: EPA 6010C**

**Analyst: SS**

**Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	3.0	1.0	1	EPA 3051A	B9A2401	01/24/2019	01/24/2019 10:28	
Lead	3.2	2.0	1	EPA 3051A	B9A2401	01/24/2019	01/24/2019 10:28	

**Conn. Extractable TPH**

**Method: CT-ETPH**

**Analyst: KER**

**Matrix: Solid**

Analyte	Result (mg/kg)	RL (mg/kg)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	99	1	EPA 3550C	B9A2226	01/22/2019	01/23/2019 03:58	
<i>Surrogate: Octacosane</i>	<i>120 %</i>		<i>50 - 150</i>		B9A2226	01/22/2019	<i>01/23/2019 03:58</i>	

**Client Sample ID PLG conc**

**Lab ID: 9010396-03**

**Total Metals**

**Method: EPA 6010C**

**Analyst: SS**

**Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	1.6	0.98	1	EPA 3051A	B9A2401	01/24/2019	01/24/2019 10:32	
Lead	85	2.0	1	EPA 3051A	B9A2401	01/24/2019	01/24/2019 10:32	

**Conn. Extractable TPH**

**Method: CT-ETPH**

**Analyst: KER**

**Matrix: Solid**

Analyte	Result (mg/kg)	RL (mg/kg)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	99	1	EPA 3550C	B9A2226	01/22/2019	01/23/2019 04:20	
<i>Surrogate: Octacosane</i>	<i>119 %</i>		<i>50 - 150</i>		B9A2226	01/22/2019	<i>01/23/2019 04:20</i>	

CET #:9010396

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Client Sample ID A-6 conc**

**Lab ID: 9010396-04**

**Total Metals**

**Method: EPA 6010C**

**Analyst: SS**

**Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	1.2	0.94	1	EPA 3051A	B9A2401	01/24/2019	01/24/2019 10:37	
Lead	3.2	1.9	1	EPA 3051A	B9A2401	01/24/2019	01/24/2019 10:37	

**Conn. Extractable TPH**

**Method: CT-ETPH**

**Analyst: KER**

**Matrix: Solid**

Analyte	Result (mg/kg)	RL (mg/kg)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	98	1	EPA 3550C	B9A2226	01/22/2019	01/23/2019 04:43	
<i>Surrogate: Octacosane</i>	<i>121 %</i>	<i>50 - 150</i>			B9A2226	01/22/2019	<i>01/23/2019 04:43</i>	

CET #:9010396

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

### QUALITY CONTROL SECTION

#### Batch B9A1805 - EPA 7471B

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9A1805-BLK1)</b>									Prepared: 1/18/2019 Analyzed: 1/18/2019
Mercury	ND	0.13							
<b>LCS (B9A1805-BS1)</b>									Prepared: 1/18/2019 Analyzed: 1/18/2019
Mercury	2.22	0.13	2.500		88.7	80 - 120			
<b>Duplicate (B9A1805-DUP1)</b>									Prepared: 1/18/2019 Analyzed: 1/18/2019
Mercury	ND	0.12		ND				20	
<b>Matrix Spike (B9A1805-MS1)</b>									Prepared: 1/18/2019 Analyzed: 1/18/2019
Mercury	2.20	0.12	2.381	ND	92.4	75 - 125			
<b>Matrix Spike Dup (B9A1805-MSD1)</b>									Prepared: 1/18/2019 Analyzed: 1/18/2019
Mercury	2.15	0.12	2.381	ND	90.1	75 - 125	2.52	20	

CET #:9010396

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Batch B9A2226 - CT-ETPH**

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9A2226-BLK1)</b>									Prepared: 1/22/2019 Analyzed: 1/23/2019
ETPH	ND	50							
<i>Surrogate: Octacosane</i>					122	50 - 150			
<b>LCS (B9A2226-BS1)</b>									Prepared: 1/22/2019 Analyzed: 1/23/2019
ETPH	1380	50	1,500.000		92.0	60 - 120			
<i>Surrogate: Octacosane</i>					118	50 - 150			

CET #:9010396

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Batch B9A2401 - EPA 6010C**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9A2401-BLK1)</b>					Prepared: 1/24/2019 Analyzed: 1/24/2019				
Lead	ND	2.0							
Arsenic	ND	1.0							
<b>LCS (B9A2401-BS1)</b>					Prepared: 1/24/2019 Analyzed: 1/24/2019				
Lead	20.6	1.9	24.178		85.0	80 - 120			
Arsenic	20.5	0.97	24.178		84.7	80 - 120			
<b>Duplicate (B9A2401-DUP1)</b>					Prepared: 1/24/2019 Analyzed: 1/24/2019				
		<b>Source: 9010396-01</b>							
Lead	4.20	2.0		8.75			70.2	444	
Arsenic	3.71	1.0		2.75			29.9	35	
<b>Matrix Spike (B9A2401-MS1)</b>					Prepared: 1/24/2019 Analyzed: 1/24/2019				
		<b>Source: 9010396-01</b>							
Lead	23.4	1.9	23.148	8.75	<b>63.3</b>	75 - 125			<b>L</b>
Arsenic	23.7	0.93	23.148	2.75	90.4	75 - 125			
<b>Matrix Spike Dup (B9A2401-MSD1)</b>					Prepared: 1/24/2019 Analyzed: 1/24/2019				
		<b>Source: 9010396-01</b>							
Lead	26.1	1.9	23.585	8.75	<b>73.6</b>	75 - 125	11.0	35	<b>L</b>
Arsenic	24.9	0.94	23.585	2.75	94.0	75 - 125	5.10	35	

**CASE NARRATIVE**

No collection times provided by client on chain of custody for the following samples: 9010396-01 through -04.

Revision: Original report dated 1/24/2019; sample IDs for 9010396-03 and 9010396-04 changed per client request.



CET #:9010396

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

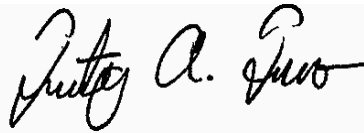
All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by Timothy Fusco



David Ditta  
Laboratory Director



Project Manager

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- \*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- \*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- \*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- \*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- \*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

RL is the Reporting Limit

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.



80 Lupes Drive  
Stratford, CT 06615

Tel: (203) 377-9984  
Fax: (203) 377-9952  
email: cct1@cetlabs.com

### Quality Control Definitions and Abbreviations

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

Flags:

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



Connecticut Laboratory Certification PH0116  
Massachusetts Laboratory Certification M-CT903

New York NELAP Accreditation 11982  
Rhode Island Certification 199



## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

**Client:** Arcadis, Sandy Hook CT

**Project Location:** Mallory Hat Factory, Danbury

**Project Number:** HT212711.0000.00001

**Laboratory Sample ID(s):**  
9010396-01 thru 9010396-04

**Sample Date(s):**  
01/16/2019

**List RCP Methods Used:**  
CT-ETPH, EPA 6010C, EPA 7471B

**CET #:** 9010396

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

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

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

**Authorized Signature:**

**Position:** Laboratory Director

**Printed Name:** David Ditta

**Date:** 01/24/2019

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

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

## RCP Case Narrative

4- See Exceptions Report Below

6- Client requested a subset of the RCP metals list.

### 4- Exceptions Report

Analyte	QC Type	Exception	Result	RPD	Recovery (%)	Batch/Sequence Sample ID
Lead	MS	Low			63.3	9010396-01
Lead	MSD	Low			73.6	9010396-01

### QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B9A2226	S9A2316	9010396-01	A-9 conc	CT-ETPH	Solid	01/16/2019
B9A2226	S9A2316	9010396-02	MHS-3W1 conc	CT-ETPH	Solid	01/16/2019
B9A2226	S9A2316	9010396-03	PLG conc	CT-ETPH	Solid	01/16/2019
B9A2226	S9A2316	9010396-04	A-6 conc	CT-ETPH	Solid	01/16/2019
B9A2401		9010396-01	A-9 conc	EPA 6010C	Solid	01/16/2019
B9A2401		9010396-02	MHS-3W1 conc	EPA 6010C	Solid	01/16/2019
B9A2401		9010396-03	PLG conc	EPA 6010C	Solid	01/16/2019
B9A2401		9010396-04	A-6 conc	EPA 6010C	Solid	01/16/2019
B9A1805		9010396-01	A-9 conc	EPA 7471B	Solid	01/16/2019
B9A1805		9010396-02	MHS-3W1 conc	EPA 7471B	Solid	01/16/2019
B9A1805		9010396-03	PLG conc	EPA 7471B	Solid	01/16/2019
B9A1805		9010396-04	A-6 conc	EPA 7471B	Solid	01/16/2019

9010396



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client:

CET:

Additional Analysis

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

Sample ID/Sample Depths (include Units for any sample depths provided)

Collection Date/Time

Matrix Turnaround Time (check one) table with columns: A-Air, S-Soil, W-Water, DM-Drinking Water, C-Cassette, Solid, Other (Specify)

Analysis list table with columns: 8260 CT List, 8260 Aromatics, 8260 Halogens, CT ETPH, 8270 CT List, 8270 PNAs, PCBs, SOX, ASE, Pesticides, 8 RCRA, 13 Priority Poll, 15 CT DEP, Total As, Hg, SPLP, TCLP, Dissolved, Field Filtered, Lab to Filter

TOTAL # OF CONT. and NOTE # columns

Main data table with rows for samples A-9 CONC, MMS-3101 CONC, PGG-CONC, A-G CONC

PRESERVATIVE (Cl-HCl, N-HNO3, S-H2SO4, Na-NaOH, C-Cool, O-Other) CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other) Soil VOCs Only (M-MeOH B-Bisulfate Sodium W-Water F=Vial Empty E-Encore)

RELINQUISHED BY: DATE/TIME RECEIVED BY: DATE/TIME RELINQUISHED BY: DATE/TIME RECEIVED BY: DATE/TIME

Client / Reporting Information

Company Name: AKWARDS Address: 75 GARD ROAD SOINT 305 City: SADDON HOOK State: CT Zip: 06482

Project Information

Project: MBRURY AIR FACILITY Location: DORSET, CT Project #: HT212711, 0300, 0300/ PO #: Collector(s): RW

QAOQC Data Report RSR Reporting Limits (check one) Laboratory Certification Needed (check one) Temp Upon Receipt

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes. REV. 10/06

Client: Mr. Paul Natoli  
Arcadis, Inc.  
75 Glen Road, Ste 305  
Sandy Hook, CT 06482

# Analytical Report

## CET# 9010400



Report Date: January 29, 2019  
Project: Mallory Hat Factory, Danbury  
Project Number: HT212711.0000.00001

Connecticut Laboratory Certificate: PH 0116  
Massachusetts Laboratory Certificate: M-CT903  
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982  
Pennsylvania Certificate: 68-02927

**SAMPLE SUMMARY**

The sample(s) were received at 3.1°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
MW-4 5ft	9010400-01	Soil	1/16/2019 14:00	01/17/2019
MW-3 5ft	9010400-02	Soil	1/16/2019 11:30	01/17/2019
MW-2 5ft	9010400-03	Soil	1/16/2019 10:30	01/17/2019
MW-2 10-12ft	9010400-04	Soil	1/16/2019 10:30	01/17/2019
BLD-1 1-2ft	9010400-05	Soil	1/16/2019 11:00	01/17/2019
BLD-1 4-5ft	9010400-06	Soil	1/16/2019 11:00	01/17/2019
BLD-2 0-2ft	9010400-07	Soil	1/16/2019 13:55	01/17/2019
TFR-1 0-2ft	9010400-08	Soil	1/16/2019 10:15	01/17/2019
TFR-2 0-2ft	9010400-09	Soil	1/16/2019 10:20	01/17/2019
FB-1 0-2ft	9010400-10	Soil	1/16/2019 10:30	01/17/2019
SB-5S 4ft	9010400-11	Soil	1/16/2019 12:05	01/17/2019
AS-4S 0-1ft	9010400-12	Soil	1/16/2019 13:40	01/17/2019
AS-4S 6-7ft	9010400-13	Soil	1/16/2019 13:40	01/17/2019
A-6 0-2ft	9010400-14	Soil	1/16/2019 14:10	01/17/2019
A-9 0-2ft	9010400-15	Soil	1/16/2019 14:20	01/17/2019
RG-1 0-2ft	9010400-16	Soil	1/16/2019 13:00	01/17/2019
RG-1 4ft	9010400-17	Soil	1/16/2019 13:00	01/17/2019
RG-2 0-2ft	9010400-18	Soil	1/16/2019 13:10	01/17/2019
RG-2 4ft	9010400-19	Soil	1/16/2019 13:10	01/17/2019
PLG-1 0-2ft	9010400-20	Soil	1/16/2019 11:45	01/17/2019
MHS-3S1 4ft	9010400-21	Soil	1/16/2019 13:20	01/17/2019
MHS-3W1 0-2ft	9010400-22	Soil	1/16/2019 14:40	01/17/2019
MHS-3N1 0-2ft	9010400-23	Soil	1/16/2019 15:00	01/17/2019
Dup-1	9010400-24	Soil	1/16/2019	01/17/2019

CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Analyte: Percent Solids [SM 2540 G]**

**Analyst: PJB**

**Matrix: Soil**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9010400-01	MW-4 5ft	80	1.0	%	1	B9A1732	01/17/2019	01/18/2019 08:27	
9010400-02	MW-3 5ft	84	1.0	%	1	B9A1732	01/17/2019	01/18/2019 08:27	
9010400-03	MW-2 5ft	85	1.0	%	1	B9A1732	01/17/2019	01/18/2019 08:27	
9010400-04	MW-2 10-12ft	89	1.0	%	1	B9A1732	01/17/2019	01/18/2019 08:27	
9010400-05	BLD-1 1-2ft	93	1.0	%	1	B9A1732	01/17/2019	01/18/2019 08:27	
9010400-06	BLD-1 4-5ft	85	1.0	%	1	B9A1732	01/17/2019	01/18/2019 08:27	
9010400-07	BLD-2 0-2ft	79	1.0	%	1	B9A1732	01/17/2019	01/18/2019 08:27	
9010400-08	TFR-1 0-2ft	90	1.0	%	1	B9A1732	01/17/2019	01/18/2019 08:27	
9010400-09	TFR-2 0-2ft	86	1.0	%	1	B9A1732	01/17/2019	01/18/2019 08:27	
9010400-10	FB-1 0-2ft	86	1.0	%	1	B9A1732	01/17/2019	01/18/2019 08:27	
9010400-11	SB-5S 4ft	82	1.0	%	1	B9A1732	01/17/2019	01/18/2019 08:27	
9010400-12	AS-4S 0-1ft	70	1.0	%	1	B9A1732	01/17/2019	01/18/2019 08:27	
9010400-13	AS-4S 6-7ft	86	1.0	%	1	B9A1732	01/17/2019	01/18/2019 08:27	
9010400-14	A-6 0-2ft	94	1.0	%	1	B9A1732	01/17/2019	01/18/2019 08:27	
9010400-15	A-9 0-2ft	91	1.0	%	1	B9A1732	01/17/2019	01/18/2019 08:27	
9010400-16	RG-1 0-2ft	86	1.0	%	1	B9A1732	01/17/2019	01/18/2019 08:27	
9010400-17	RG-1 4ft	88	1.0	%	1	B9A1732	01/17/2019	01/18/2019 08:27	
9010400-18	RG-2 0-2ft	70	1.0	%	1	B9A1732	01/17/2019	01/18/2019 08:27	
9010400-19	RG-2 4ft	81	1.0	%	1	B9A1732	01/17/2019	01/18/2019 08:27	
9010400-20	PLG-1 0-2ft	94	1.0	%	1	B9A1732	01/17/2019	01/18/2019 08:27	
9010400-21	MHS-3S1 4ft	71	1.0	%	1	B9A2108	01/21/2019	01/21/2019 12:35	
9010400-22	MHS-3W1 0-2ft	87	1.0	%	1	B9A2108	01/21/2019	01/21/2019 12:35	
9010400-23	MHS-3N1 0-2ft	95	1.0	%	1	B9A2108	01/21/2019	01/21/2019 12:35	
9010400-24	Dup-1	88	1.0	%	1	B9A2119	01/21/2019	01/21/2019 10:05	



CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Analyte: Mercury [EPA 7471B]**

**Analyst: SFJ**

**Matrix: Soil**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9010400-01	MW-4 5ft	7.9	0.31	mg/kg dry	2	B9A1802	01/18/2019	01/18/2019 13:47	
9010400-02	MW-3 5ft	1.9	0.16	mg/kg dry	1	B9A1802	01/18/2019	01/18/2019 13:32	
9010400-03	MW-2 5ft	1.9	0.14	mg/kg dry	1	B9A1802	01/18/2019	01/18/2019 13:42	
9010400-04	MW-2 10-12ft	ND	0.14	mg/kg dry	1	B9A1803	01/21/2019	01/21/2019 11:36	
9010400-05	BLD-1 1-2ft	6.7	0.67	mg/kg dry	5	B9A1803	01/21/2019	01/21/2019 13:49	
9010400-06	BLD-1 4-5ft	18	0.78	mg/kg dry	5	B9A1803	01/21/2019	01/21/2019 13:52	
9010400-07	BLD-2 0-2ft	26	0.75	mg/kg dry	5	B9A1803	01/21/2019	01/21/2019 13:54	
9010400-10	FB-1 0-2ft	17	0.76	mg/kg dry	5	B9A1803	01/21/2019	01/21/2019 13:56	
9010400-12	AS-4S 0-1ft	14	0.90	mg/kg dry	5	B9A1803	01/21/2019	01/21/2019 12:01	
9010400-13	AS-4S 6-7ft	0.55	0.15	mg/kg dry	1	B9A2303	01/23/2019	01/23/2019 10:31	
9010400-14	A-6 0-2ft	0.22	0.13	mg/kg dry	1	B9A2303	01/23/2019	01/23/2019 10:34	
9010400-15	A-9 0-2ft	ND	0.14	mg/kg dry	1	B9A1803	01/21/2019	01/21/2019 14:08	
9010400-16	RG-1 0-2ft	0.64	0.14	mg/kg dry	1	B9A2303	01/23/2019	01/23/2019 10:36	
9010400-17	RG-1 4ft	1.0	0.13	mg/kg dry	1	B9A1803	01/21/2019	01/21/2019 12:23	
9010400-18	RG-2 0-2ft	36	0.94	mg/kg dry	5	B9A1803	01/21/2019	01/21/2019 14:13	
9010400-19	RG-2 4ft	1.2	0.15	mg/kg dry	1	B9A1803	01/21/2019	01/21/2019 12:31	
9010400-20	PLG-1 0-2ft	ND	0.13	mg/kg dry	1	B9A1803	01/21/2019	01/21/2019 12:33	
9010400-21	MHS-3S1 4ft	140	3.7	mg/kg dry	20	B9A2303	01/23/2019	01/23/2019 11:10	
9010400-22	MHS-3W1 0-2ft	ND	0.14	mg/kg dry	1	B9A1803	01/21/2019	01/21/2019 12:41	
9010400-23	MHS-3N1 0-2ft	ND	0.12	mg/kg dry	1	B9A1803	01/21/2019	01/21/2019 12:51	
9010400-24	Dup-1	0.15	0.14	mg/kg dry	1	B9A1803	01/21/2019	01/21/2019 12:59	

**Analyte: Total Lead [EPA 6010C]**

**Analyst: SS**

**Prep: EPA 3051A**

**Matrix: Soil**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9010400-14	A-6 0-2ft	3.5	2.0	mg/kg dry	1	B9A2118	01/21/2019	01/21/2019 15:57	
9010400-20	PLG-1 0-2ft	6.1	2.0	mg/kg dry	1	B9A2118	01/21/2019	01/21/2019 16:30	

CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

Analyte: Total Arsenic [EPA 6010C]

Analyst: SS

Prep: EPA 3051A

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9010400-01	MW-4 5ft	5.9	1.2	mg/kg dry	1	B9A2118	01/21/2019	01/21/2019 14:45	
9010400-05	BLD-1 1-2ft	6.7	1.1	mg/kg dry	1	B9A2118	01/21/2019	01/21/2019 14:49	
9010400-06	BLD-1 4-5ft	3.7	1.2	mg/kg dry	1	B9A2118	01/21/2019	01/21/2019 14:53	
9010400-07	BLD-2 0-2ft	16	1.3	mg/kg dry	1	B9A2118	01/21/2019	01/21/2019 15:40	
9010400-10	FB-1 0-2ft	5.0	1.1	mg/kg dry	1	B9A2118	01/21/2019	01/21/2019 15:44	
9010400-12	AS-4S 0-1ft	9.3	1.4	mg/kg dry	1	B9A2118	01/21/2019	01/21/2019 15:48	
9010400-13	AS-4S 6-7ft	1.6	1.2	mg/kg dry	1	B9A2118	01/21/2019	01/21/2019 15:53	
9010400-14	A-6 0-2ft	1.6	1.0	mg/kg dry	1	B9A2118	01/21/2019	01/21/2019 15:57	
9010400-15	A-9 0-2ft	ND	1.1	mg/kg dry	1	B9A2118	01/21/2019	01/21/2019 16:01	
9010400-16	RG-1 0-2ft	13	1.1	mg/kg dry	1	B9A2118	01/21/2019	01/21/2019 16:05	
9010400-17	RG-1 4ft	2.0	1.1	mg/kg dry	1	B9A2118	01/21/2019	01/21/2019 16:18	
9010400-18	RG-2 0-2ft	4.3	1.4	mg/kg dry	1	B9A2118	01/21/2019	01/21/2019 16:22	
9010400-19	RG-2 4ft	2.4	1.1	mg/kg dry	1	B9A2118	01/21/2019	01/21/2019 16:26	
9010400-20	PLG-1 0-2ft	2.5	1.0	mg/kg dry	1	B9A2118	01/21/2019	01/21/2019 16:30	
9010400-24	Dup-1	ND	1.1	mg/kg dry	1	B9A2118	01/21/2019	01/21/2019 16:35	

Client Sample ID MW-3 5ft

Lab ID: 9010400-02

Conn. Extractable TPH

Analyst: KER

Method: CT-ETPH

Matrix: Soil

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
<b>ETPH</b>	<b>86</b>	59	1	EPA 3550C	B9A1901	01/19/2019	01/21/2019 18:21	R
<i>Surrogate: Octacosane</i>	<i>109 %</i>	<i>50 - 150</i>			B9A1901	01/19/2019	<i>01/21/2019 18:21</i>	
R C18-C36 unknown								

CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID MW-2 5ft

Lab ID: 9010400-03

Conn. Extractable TPH

Analyst: KER

Method: CT-ETPH

Matrix: Soil

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	2700	58	1	EPA 3550C	B9A1901	01/19/2019	01/21/2019 18:44	2
<i>Surrogate: Octacosane</i>	62.2 %	50 - 150			B9A1901	01/19/2019	01/21/2019 18:44	
2 C9-C28 Fuel Oil Range								

PCBs by ASE

Analyst: PJB

Method: EPA 8082A

Matrix: Soil

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.11	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 14:32	
PCB-1221	ND	0.11	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 14:32	
PCB-1232	ND	0.11	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 14:32	
PCB-1242	ND	0.11	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 14:32	
PCB-1248	ND	0.11	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 14:32	
PCB-1254	ND	0.11	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 14:32	
PCB-1260	ND	0.11	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 14:32	
PCB-1262	ND	0.11	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 14:32	
PCB-1268	ND	0.11	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 14:32	
<i>Surrogate: DCB [1C]</i>	102 %	30 - 150			B9A1807	01/18/2019	01/18/2019 14:32	
<i>Surrogate: DCB [2C]</i>	96.7 %	30 - 150			B9A1807	01/18/2019	01/18/2019 14:32	
<i>Surrogate: TCMX [1C]</i>	90.4 %	30 - 150			B9A1807	01/18/2019	01/18/2019 14:32	
<i>Surrogate: TCMX [2C]</i>	80.3 %	30 - 150			B9A1807	01/18/2019	01/18/2019 14:32	

## Client Sample ID MW-2 10-12ft

Lab ID: 9010400-04

Conn. Extractable TPH

Analyst: KER

Method: CT-ETPH

Matrix: Soil

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	56	1	EPA 3550C	B9A1901	01/19/2019	01/21/2019 19:07	
<i>Surrogate: Octacosane</i>	109 %	50 - 150			B9A1901	01/19/2019	01/21/2019 19:07	

CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID BLD-1 1-2ft

Lab ID: 9010400-05

## Conn. Extractable TPH

Analyst: KER

## Method: CT-ETPH

Matrix: Soil

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
<b>ETPH</b>	<b>600</b>	54	1	EPA 3550C	B9A1901	01/19/2019	01/21/2019 19:30	R
<i>Surrogate: Octacosane</i>	<i>120 %</i>	<i>50 - 150</i>			B9A1901	01/19/2019	<i>01/21/2019 19:30</i>	
R C18-C36 unknown								

## Volatile Organics

Analyst: ALM

## Method: EPA 8260C

Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
1,1,1-Trichloroethane	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
1,1,2,2-Tetrachloroethane	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
1,1,2-Trichloroethane	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
1,1-Dichloroethane	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
1,1-Dichloroethene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
1,1-Dichloropropene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
1,2,3-Trichlorobenzene	ND	7.5	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
1,2,3-Trichloropropane	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
1,2,4-Trichlorobenzene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
1,2,4-Trimethylbenzene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
1,2-Dibromo-3-Chloropropane	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
1,2-Dibromoethane	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
1,2-Dichlorobenzene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
1,2-Dichloroethane	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
1,2-Dichloropropane	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
1,3,5-Trimethylbenzene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
1,3-Dichlorobenzene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
1,3-Dichloropropane	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
1,4-Dichlorobenzene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
2,2-Dichloropropane	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
2-Butanone (MEK)	ND	19	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
2-Chlorotoluene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
2-Hexanone	ND	19	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
4-Chlorotoluene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
4-Isopropyltoluene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Acetone	ND	110	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Acrylonitrile	ND	6.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	

Complete Environmental Testing, Inc.

80 Lupes Drive, Stratford, CT 06615 • Tel: 203-377-9984 • Fax: 203-377-9952 • www.cetlabs.com

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CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID BLD-1 1-2ft

Lab ID: 9010400-05

**Volatile Organics**  
**Method: EPA 8260C**

Analyst: ALM

Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Bromobenzene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Bromochloromethane	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Bromodichloromethane	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Bromoform	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Bromomethane	ND	7.5	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Carbon Disulfide	ND	7.5	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Carbon Tetrachloride	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Chlorobenzene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Chloroethane	ND	7.5	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Chloroform	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Chloromethane	ND	7.5	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
cis-1,2-Dichloroethene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
cis-1,3-Dichloropropene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Dibromochloromethane	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Dibromomethane	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Dichlorodifluoromethane	ND	11	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	*I
Ethylbenzene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Hexachlorobutadiene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	*I
Isopropylbenzene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
m+p Xylenes	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Methyl Isobutyl Ketone	ND	19	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Methylene Chloride	ND	45	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Methyl-t-Butyl Ether (MTBE)	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Naphthalene	ND	7.5	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
n-Butylbenzene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
n-Propylbenzene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
o-Xylene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
sec-Butylbenzene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Styrene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
tert-Butylbenzene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Tetrachloroethene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	*I
Tetrahydrofuran	ND	19	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Toluene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
trans-1,2-Dichloroethene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
trans-1,3-Dichloropropene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	

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CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Client Sample ID BLD-1 1-2ft**

**Lab ID: 9010400-05**

**Volatile Organics**

**Method: EPA 8260C**

**Analyst: ALM**

**Matrix: Soil**

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
trans-1,4-Dichloro-2-Butene	ND	19	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Trichloroethene	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Trichlorofluoromethane	ND	30	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Trichlorotrifluoroethane	ND	30	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
Vinyl Chloride	ND	3.8	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:08	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>102 %</i>	<i>70 - 130</i>			B9A2834	01/28/2019	<i>01/28/2019 18:08</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>91.5 %</i>	<i>70 - 130</i>			B9A2834	01/28/2019	<i>01/28/2019 18:08</i>	
<i>Surrogate: Toluene-d8</i>	<i>97.7 %</i>	<i>70 - 130</i>			B9A2834	01/28/2019	<i>01/28/2019 18:08</i>	

**Client Sample ID BLD-1 4-5ft**

**Lab ID: 9010400-06**

**Conn. Extractable TPH**

**Method: CT-ETPH**

**Analyst: KER**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
<b>ETPH</b>	<b>1400</b>	59	1	EPA 3550C	B9A1901	01/19/2019	01/21/2019 19:53	3
<i>Surrogate: Octacosane</i>	<i>117 %</i>	<i>50 - 150</i>			B9A1901	01/19/2019	<i>01/21/2019 19:53</i>	
3 C18-C36 Motor Oil Range								

CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID BLD-2 0-2ft

Lab ID: 9010400-07

## Conn. Extractable TPH

Analyst: KER

## Method: CT-ETPH

Matrix: Soil

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	63	1	EPA 3550C	B9A1901	01/19/2019	01/21/2019 20:16	
<i>Surrogate: Octacosane</i>	<i>105 %</i>	<i>50 - 150</i>			B9A1901	01/19/2019	<i>01/21/2019 20:16</i>	

## Volatile Organics

Analyst: ALM

## Method: EPA 8260C

Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
1,1,1-Trichloroethane	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
1,1,2,2-Tetrachloroethane	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
1,1,2-Trichloroethane	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
1,1-Dichloroethane	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
1,1-Dichloroethene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
1,1-Dichloropropene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
1,2,3-Trichlorobenzene	ND	14	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
1,2,3-Trichloropropane	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
1,2,4-Trichlorobenzene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
1,2,4-Trimethylbenzene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
1,2-Dibromo-3-Chloropropane	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
1,2-Dibromoethane	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
1,2-Dichlorobenzene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
1,2-Dichloroethane	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
1,2-Dichloropropane	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
1,3,5-Trimethylbenzene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
1,3-Dichlorobenzene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
1,3-Dichloropropane	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
1,4-Dichlorobenzene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
2,2-Dichloropropane	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
2-Butanone (MEK)	ND	34	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
2-Chlorotoluene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
2-Hexanone	ND	34	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
4-Chlorotoluene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
4-Isopropyltoluene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Acetone	ND	210	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Acrylonitrile	ND	11	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	

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CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID BLD-2 0-2ft

Lab ID: 9010400-07

**Volatile Organics**  
**Method: EPA 8260C**

Analyst: ALM

Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Bromobenzene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Bromochloromethane	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Bromodichloromethane	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Bromoform	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Bromomethane	ND	14	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Carbon Disulfide	ND	14	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Carbon Tetrachloride	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Chlorobenzene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Chloroethane	ND	14	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Chloroform	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Chloromethane	ND	14	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
cis-1,2-Dichloroethene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
cis-1,3-Dichloropropene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Dibromochloromethane	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Dibromomethane	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Dichlorodifluoromethane	ND	21	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	*I
Ethylbenzene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Hexachlorobutadiene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	*I
Isopropylbenzene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
m+p Xylenes	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Methyl Isobutyl Ketone	ND	34	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Methylene Chloride	ND	82	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Methyl-t-Butyl Ether (MTBE)	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Naphthalene	ND	14	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
n-Butylbenzene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
n-Propylbenzene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
o-Xylene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
sec-Butylbenzene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Styrene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
tert-Butylbenzene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Tetrachloroethene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	*I
Tetrahydrofuran	ND	34	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Toluene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
trans-1,2-Dichloroethene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
trans-1,3-Dichloropropene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	

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CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Client Sample ID BLD-2 0-2ft****Lab ID: 9010400-07****Volatile Organics****Method: EPA 8260C****Analyst: ALM****Matrix: Soil**

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
trans-1,4-Dichloro-2-Butene	ND	34	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Trichloroethene	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Trichlorofluoromethane	ND	55	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Trichlorotrifluoroethane	ND	55	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
Vinyl Chloride	ND	6.8	2.17	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 18:32	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>103 %</i>	<i>70 - 130</i>			B9A2834	01/28/2019	<i>01/28/2019 18:32</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>88.8 %</i>	<i>70 - 130</i>			B9A2834	01/28/2019	<i>01/28/2019 18:32</i>	
<i>Surrogate: Toluene-d8</i>	<i>96.2 %</i>	<i>70 - 130</i>			B9A2834	01/28/2019	<i>01/28/2019 18:32</i>	

**Client Sample ID TFR-1 0-2ft****Lab ID: 9010400-08****PCBs by ASE****Method: EPA 8082A****Analyst: PJB****Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.11	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 16:17	
PCB-1221	ND	0.11	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 16:17	
PCB-1232	ND	0.11	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 16:17	
PCB-1242	ND	0.11	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 16:17	
PCB-1248	ND	0.11	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 16:17	
PCB-1254	ND	0.11	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 16:17	
PCB-1260	ND	0.11	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 16:17	
PCB-1262	ND	0.11	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 16:17	
PCB-1268	ND	0.11	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 16:17	
<i>Surrogate: DCB [1C]</i>	<i>103 %</i>	<i>30 - 150</i>			B9A1807	01/18/2019	<i>01/18/2019 16:17</i>	
<i>Surrogate: DCB [2C]</i>	<i>98.6 %</i>	<i>30 - 150</i>			B9A1807	01/18/2019	<i>01/18/2019 16:17</i>	
<i>Surrogate: TCMX [1C]</i>	<i>95.0 %</i>	<i>30 - 150</i>			B9A1807	01/18/2019	<i>01/18/2019 16:17</i>	
<i>Surrogate: TCMX [2C]</i>	<i>91.0 %</i>	<i>30 - 150</i>			B9A1807	01/18/2019	<i>01/18/2019 16:17</i>	

CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Client Sample ID TFR-2 0-2ft**

**Lab ID: 9010400-09**

**PCBs by ASE**

**Method: EPA 8082A**

**Analyst: PJB**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.12	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 16:36	
PCB-1221	ND	0.12	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 16:36	
PCB-1232	ND	0.12	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 16:36	
PCB-1242	ND	0.12	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 16:36	
PCB-1248	ND	0.12	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 16:36	
PCB-1254	ND	0.12	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 16:36	
PCB-1260	ND	0.12	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 16:36	
PCB-1262	ND	0.12	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 16:36	
PCB-1268	ND	0.12	1	EPA 3545A	B9A1807	01/18/2019	01/18/2019 16:36	
<i>Surrogate: DCB [1C]</i>	<i>114 %</i>		<i>30 - 150</i>		B9A1807	01/18/2019	<i>01/18/2019 16:36</i>	
<i>Surrogate: DCB [2C]</i>	<i>110 %</i>		<i>30 - 150</i>		B9A1807	01/18/2019	<i>01/18/2019 16:36</i>	
<i>Surrogate: TCMX [1C]</i>	<i>103 %</i>		<i>30 - 150</i>		B9A1807	01/18/2019	<i>01/18/2019 16:36</i>	
<i>Surrogate: TCMX [2C]</i>	<i>98.6 %</i>		<i>30 - 150</i>		B9A1807	01/18/2019	<i>01/18/2019 16:36</i>	

**Client Sample ID FB-1 0-2ft**

**Lab ID: 9010400-10**

**Conn. Extractable TPH**

**Method: CT-ETPH**

**Analyst: KER**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	58	1	EPA 3550C	B9A1901	01/19/2019	01/21/2019 20:39	
<i>Surrogate: Octacosane</i>	<i>109 %</i>		<i>50 - 150</i>		B9A1901	01/19/2019	<i>01/21/2019 20:39</i>	

**Client Sample ID SB-5S 4ft**

**Lab ID: 9010400-11**

**Conn. Extractable TPH**

**Method: CT-ETPH**

**Analyst: KER**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	61	1	EPA 3550C	B9A1901	01/19/2019	01/21/2019 21:02	
<i>Surrogate: Octacosane</i>	<i>112 %</i>		<i>50 - 150</i>		B9A1901	01/19/2019	<i>01/21/2019 21:02</i>	

CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Client Sample ID AS-4S 0-1ft**

**Lab ID: 9010400-12**

**Conn. Extractable TPH**

**Method: CT-ETPH**

**Analyst: KER**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
<b>ETPH</b>	<b>370</b>	72	1	EPA 3550C	B9A1901	01/19/2019	01/21/2019 21:25	R
<i>Surrogate: Octacosane</i>	<i>110 %</i>	<i>50 - 150</i>			B9A1901	01/19/2019	<i>01/21/2019 21:25</i>	
R C18-C36 unknown								

**Client Sample ID AS-4S 6-7ft**

**Lab ID: 9010400-13**

**Conn. Extractable TPH**

**Method: CT-ETPH**

**Analyst: KER**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
<b>ETPH</b>	<b>ND</b>	58	1	EPA 3550C	B9A1901	01/19/2019	01/21/2019 21:48	
<i>Surrogate: Octacosane</i>	<i>114 %</i>	<i>50 - 150</i>			B9A1901	01/19/2019	<i>01/21/2019 21:48</i>	

CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID A-6 0-2ft

Lab ID: 9010400-14

## Conn. Extractable TPH

Analyst: KER

## Method: CT-ETPH

Matrix: Soil

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	53	1	EPA 3550C	B9A1901	01/19/2019	01/21/2019 22:11	
<i>Surrogate: Octacosane</i>	<i>118 %</i>	<i>50 - 150</i>			B9A1901	01/19/2019	<i>01/21/2019 22:11</i>	

## Volatile Organics

Analyst: ALM

## Method: EPA 8260C

Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
1,1,1-Trichloroethane	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
1,1,2,2-Tetrachloroethane	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
1,1,2-Trichloroethane	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
1,1-Dichloroethane	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
1,1-Dichloroethene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	*C1
1,1-Dichloropropene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
1,2,3-Trichlorobenzene	ND	8.1	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
1,2,3-Trichloropropane	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
1,2,4-Trichlorobenzene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
1,2,4-Trimethylbenzene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
1,2-Dibromo-3-Chloropropane	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
1,2-Dibromoethane	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
1,2-Dichlorobenzene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
1,2-Dichloroethane	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
1,2-Dichloropropane	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
1,3,5-Trimethylbenzene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
1,3-Dichlorobenzene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
1,3-Dichloropropane	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
1,4-Dichlorobenzene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
2,2-Dichloropropane	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
2-Butanone (MEK)	ND	20	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
2-Chlorotoluene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
2-Hexanone	ND	20	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
4-Chlorotoluene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
4-Isopropyltoluene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Acetone	ND	120	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Acrylonitrile	ND	6.4	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	

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CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID A-6 0-2ft

Lab ID: 9010400-14

**Volatile Organics**  
**Method: EPA 8260C**

Analyst: ALM

Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Bromobenzene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Bromochloromethane	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Bromodichloromethane	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Bromoform	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Bromomethane	ND	8.1	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	*I
Carbon Disulfide	ND	8.1	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Carbon Tetrachloride	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Chlorobenzene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Chloroethane	ND	8.1	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Chloroform	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Chloromethane	ND	8.1	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	*C2*I
cis-1,2-Dichloroethene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
cis-1,3-Dichloropropene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Dibromochloromethane	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Dibromomethane	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Dichlorodifluoromethane	ND	12	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	*C2*I
Ethylbenzene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Hexachlorobutadiene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Isopropylbenzene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
m+p Xylenes	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Methyl Isobutyl Ketone	ND	20	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Methylene Chloride	ND	48	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Methyl-t-Butyl Ether (MTBE)	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Naphthalene	ND	8.1	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
n-Butylbenzene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	*F2
n-Propylbenzene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
o-Xylene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
sec-Butylbenzene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Styrene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
tert-Butylbenzene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Tetrachloroethene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	*I
Tetrahydrofuran	ND	20	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Toluene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
trans-1,2-Dichloroethene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
trans-1,3-Dichloropropene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	

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CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Client Sample ID A-6 0-2ft**

**Lab ID: 9010400-14**

**Volatile Organics**

**Method: EPA 8260C**

**Analyst: ALM**

**Matrix: Soil**

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
trans-1,4-Dichloro-2-Butene	ND	20	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Trichloroethene	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Trichlorofluoromethane	ND	32	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Trichlorotrifluoroethane	ND	32	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	
Vinyl Chloride	ND	4.0	1.51	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 02:56	*I
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>97.5 %</i>	<i>70 - 130</i>			B9A2547	01/26/2019	<i>01/26/2019 02:56</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98.4 %</i>	<i>70 - 130</i>			B9A2547	01/26/2019	<i>01/26/2019 02:56</i>	
<i>Surrogate: Toluene-d8</i>	<i>100 %</i>	<i>70 - 130</i>			B9A2547	01/26/2019	<i>01/26/2019 02:56</i>	

CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID A-9 0-2ft

Lab ID: 9010400-15

**Volatile Organics**  
**Method: EPA 8260C**

Analyst: ALM

Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
1,1,1-Trichloroethane	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
1,1,2,2-Tetrachloroethane	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
1,1,2-Trichloroethane	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
1,1-Dichloroethane	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
1,1-Dichloroethene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	*C1
1,1-Dichloropropene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
1,2,3-Trichlorobenzene	ND	8.1	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
1,2,3-Trichloropropane	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
1,2,4-Trichlorobenzene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
1,2,4-Trimethylbenzene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
1,2-Dibromo-3-Chloropropane	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
1,2-Dibromoethane	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
1,2-Dichlorobenzene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
1,2-Dichloroethane	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
1,2-Dichloropropane	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
1,3,5-Trimethylbenzene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
1,3-Dichlorobenzene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
1,3-Dichloropropane	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
1,4-Dichlorobenzene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
2,2-Dichloropropane	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
2-Butanone (MEK)	ND	20	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
2-Chlorotoluene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
2-Hexanone	ND	20	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
4-Chlorotoluene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
4-Isopropyltoluene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Acetone	ND	120	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Acrylonitrile	ND	6.4	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Benzene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Bromobenzene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Bromochloromethane	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Bromodichloromethane	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Bromoform	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Bromomethane	ND	8.1	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	*I
Carbon Disulfide	ND	8.1	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Carbon Tetrachloride	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	

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CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID A-9 0-2ft

Lab ID: 9010400-15

## Volatile Organics

Method: EPA 8260C

Analyst: ALM

Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Chlorobenzene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Chloroethane	ND	8.1	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Chloroform	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Chloromethane	ND	8.1	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	*C2*I
cis-1,2-Dichloroethene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
cis-1,3-Dichloropropene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Dibromochloromethane	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Dibromomethane	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Dichlorodifluoromethane	ND	12	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	*C2*I
Ethylbenzene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Hexachlorobutadiene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Isopropylbenzene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
m+p Xylenes	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Methyl Isobutyl Ketone	ND	20	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Methylene Chloride	ND	48	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Methyl-t-Butyl Ether (MTBE)	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Naphthalene	ND	8.1	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
n-Butylbenzene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	*F2
n-Propylbenzene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
o-Xylene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
sec-Butylbenzene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Styrene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
tert-Butylbenzene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Tetrachloroethene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	*I
Tetrahydrofuran	ND	20	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Toluene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
trans-1,2-Dichloroethene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
trans-1,3-Dichloropropene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
trans-1,4-Dichloro-2-Butene	ND	20	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Trichloroethene	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Trichlorofluoromethane	ND	32	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Trichlorotrifluoroethane	ND	32	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	
Vinyl Chloride	ND	4.0	1.46	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:18	*I
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>104 %</i>	<i>70 - 130</i>			B9A2547	01/26/2019	<i>01/26/2019 03:18</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>99.1 %</i>	<i>70 - 130</i>			B9A2547	01/26/2019	<i>01/26/2019 03:18</i>	
<i>Surrogate: Toluene-d8</i>	<i>99.8 %</i>	<i>70 - 130</i>			B9A2547	01/26/2019	<i>01/26/2019 03:18</i>	

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CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Client Sample ID RG-1 0-2ft**

**Lab ID: 9010400-16**

**Conn. Extractable TPH**

**Method: CT-ETPH**

**Analyst: KER**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	58	1	EPA 3550C	B9A1901	01/19/2019	01/21/2019 22:34	
<i>Surrogate: Octacosane</i>	<i>119 %</i>	<i>50 - 150</i>			B9A1901	01/19/2019	<i>01/21/2019 22:34</i>	

**Client Sample ID RG-1 4ft**

**Lab ID: 9010400-17**

**Conn. Extractable TPH**

**Method: CT-ETPH**

**Analyst: KER**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	57	1	EPA 3550C	B9A1901	01/19/2019	01/21/2019 22:56	
<i>Surrogate: Octacosane</i>	<i>115 %</i>	<i>50 - 150</i>			B9A1901	01/19/2019	<i>01/21/2019 22:56</i>	

**Client Sample ID RG-2 0-2ft**

**Lab ID: 9010400-18**

**Conn. Extractable TPH**

**Method: CT-ETPH**

**Analyst: KER**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	71	1	EPA 3550C	B9A1901	01/19/2019	01/21/2019 23:19	
<i>Surrogate: Octacosane</i>	<i>111 %</i>	<i>50 - 150</i>			B9A1901	01/19/2019	<i>01/21/2019 23:19</i>	

**Client Sample ID RG-2 4ft**

**Lab ID: 9010400-19**

**Conn. Extractable TPH**

**Method: CT-ETPH**

**Analyst: KER**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	62	1	EPA 3550C	B9A1901	01/19/2019	01/21/2019 23:42	
<i>Surrogate: Octacosane</i>	<i>114 %</i>	<i>50 - 150</i>			B9A1901	01/19/2019	<i>01/21/2019 23:42</i>	

CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Client Sample ID PLG-1 0-2ft**

**Lab ID: 9010400-20**

**Conn. Extractable TPH**

**Analyst: KER**

**Method: CT-ETPH**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	53	1	EPA 3550C	B9A1901	01/19/2019	01/22/2019 00:05	
<i>Surrogate: Octacosane</i>	<i>117 %</i>		<i>50 - 150</i>		B9A1901	01/19/2019	<i>01/22/2019 00:05</i>	

CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID MHS-3N1 0-2ft

Lab ID: 9010400-23

**Volatile Organics**  
**Method: EPA 8260C**

Analyst: ALM

Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
1,1,1-Trichloroethane	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
1,1,2,2-Tetrachloroethane	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
1,1,2-Trichloroethane	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
1,1-Dichloroethane	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
1,1-Dichloroethene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	*C1
1,1-Dichloropropene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
1,2,3-Trichlorobenzene	ND	8.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
1,2,3-Trichloropropane	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
1,2,4-Trichlorobenzene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
1,2,4-Trimethylbenzene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
1,2-Dibromo-3-Chloropropane	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
1,2-Dibromoethane	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
1,2-Dichlorobenzene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
1,2-Dichloroethane	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
1,2-Dichloropropane	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
1,3,5-Trimethylbenzene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
1,3-Dichlorobenzene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
1,3-Dichloropropane	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
1,4-Dichlorobenzene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
2,2-Dichloropropane	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
2-Butanone (MEK)	ND	20	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
2-Chlorotoluene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
2-Hexanone	ND	20	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
4-Chlorotoluene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
4-Isopropyltoluene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Acetone	ND	120	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Acrylonitrile	ND	6.4	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Benzene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Bromobenzene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Bromochloromethane	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Bromodichloromethane	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Bromoform	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Bromomethane	ND	8.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	*I
Carbon Disulfide	ND	8.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Carbon Tetrachloride	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	

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CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID MHS-3N1 0-2ft

Lab ID: 9010400-23

## Volatile Organics

Method: EPA 8260C

Analyst: ALM

Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Chlorobenzene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Chloroethane	ND	8.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Chloroform	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Chloromethane	ND	8.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	*C2*I
cis-1,2-Dichloroethene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
cis-1,3-Dichloropropene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Dibromochloromethane	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Dibromomethane	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Dichlorodifluoromethane	ND	12	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	*C2*I
Ethylbenzene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Hexachlorobutadiene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Isopropylbenzene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
m+p Xylenes	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Methyl Isobutyl Ketone	ND	20	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Methylene Chloride	ND	48	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Methyl-t-Butyl Ether (MTBE)	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Naphthalene	ND	8.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
n-Butylbenzene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	*F2
n-Propylbenzene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
o-Xylene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
sec-Butylbenzene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Styrene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
tert-Butylbenzene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Tetrachloroethene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	*I
Tetrahydrofuran	ND	20	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Toluene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
trans-1,2-Dichloroethene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
trans-1,3-Dichloropropene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
trans-1,4-Dichloro-2-Butene	ND	20	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Trichloroethene	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Trichlorofluoromethane	ND	32	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Trichlorotrifluoroethane	ND	32	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	
Vinyl Chloride	ND	4.0	1.53	EPA 5035A-L	B9A2547	01/26/2019	01/26/2019 03:41	*I
Surrogate: 1,2-Dichloroethane-d4	102 %	70 - 130			B9A2547	01/26/2019	01/26/2019 03:41	
Surrogate: 4-Bromofluorobenzene	102 %	70 - 130			B9A2547	01/26/2019	01/26/2019 03:41	
Surrogate: Toluene-d8	101 %	70 - 130			B9A2547	01/26/2019	01/26/2019 03:41	

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CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Client Sample ID Dup-1**

**Lab ID: 9010400-24**

**Conn. Extractable TPH**

**Analyst: KER**

**Method: CT-ETPH**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	57	1	EPA 3550C	B9A1901	01/19/2019	01/22/2019 00:27	
<i>Surrogate: Octacosane</i>	<i>115 %</i>	<i>50 - 150</i>			B9A1901	01/19/2019	<i>01/22/2019 00:27</i>	

CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

### QUALITY CONTROL SECTION

#### Batch B9A1732 - SM 2540 G

Analyte	Result (%)	RL (%)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Duplicate (B9A1732-DUP1)</b>				<b>Source: 9010400-20</b>			Prepared: 1/17/2019	Analyzed: 1/18/2019	
Percent Solids	94	1.0		94			0.371	5	

CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Batch B9A1802 - EPA 7471B**

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9A1802-BLK1)</b>									Prepared: 1/18/2019 Analyzed: 1/18/2019
Mercury	ND	0.13							
<b>LCS (B9A1802-BS1)</b>									Prepared: 1/18/2019 Analyzed: 1/18/2019
Mercury	2.19	0.13	2.500		87.4	80 - 120			

CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Batch B9A1803 - EPA 7471B**

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9A1803-BLK1)</b>									Prepared: 1/21/2019 Analyzed: 1/21/2019
Mercury	ND	0.13							
<b>LCS (B9A1803-BS1)</b>									Prepared: 1/21/2019 Analyzed: 1/21/2019
Mercury	2.28	0.13	2.500		91.1	80 - 120			
<b>Duplicate (B9A1803-DUP1)</b>									Prepared: 1/21/2019 Analyzed: 1/21/2019
Mercury	ND	0.14		ND				20	
<b>Matrix Spike (B9A1803-MS1)</b>									Prepared: 1/21/2019 Analyzed: 1/21/2019
Mercury	2.76	0.14	2.865	ND	96.2	75 - 125			
<b>Matrix Spike Dup (B9A1803-MSD1)</b>									Prepared: 1/21/2019 Analyzed: 1/21/2019
Mercury	2.70	0.14	2.865	ND	94.2	75 - 125	2.10	20	



CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Batch B9A1807 - EPA 8082A**

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9A1807-BLK1)</b>					Prepared: 1/18/2019 Analyzed: 1/18/2019				
PCB-1016	ND	0.10							
PCB-1221	ND	0.10							
PCB-1232	ND	0.10							
PCB-1242	ND	0.10							
PCB-1248	ND	0.10							
PCB-1254	ND	0.10							
PCB-1260	ND	0.10							
PCB-1268	ND	0.10							
PCB-1262	ND	0.10							
<i>Surrogate: TCMX [1C]</i>					70.0	30 - 150			
<i>Surrogate: TCMX [2C]</i>					67.6	30 - 150			
<i>Surrogate: DCB [1C]</i>					83.8	30 - 150			
<i>Surrogate: DCB [2C]</i>					83.9	30 - 150			
<b>LCS (B9A1807-BS1)</b>					Prepared: 1/18/2019 Analyzed: 1/18/2019				
PCB-1016	0.869	0.10	1.000		86.9	40 - 140			
PCB-1260	0.979	0.10	1.000		97.9	40 - 140			
<i>Surrogate: TCMX [1C]</i>					69.7	30 - 150			
<i>Surrogate: TCMX [2C]</i>					67.0	30 - 150			
<i>Surrogate: DCB [1C]</i>					75.7	30 - 150			
<i>Surrogate: DCB [2C]</i>					75.8	30 - 150			
<b>Matrix Spike (B9A1807-MS1)</b>					Source: 9010400-09 Prepared: 1/18/2019 Analyzed: 1/18/2019				
PCB-1016	1.52	0.12	1.166	ND	130	40 - 140			
PCB-1260	1.58	0.12	1.166	ND	136	40 - 140			
<i>Surrogate: TCMX [1C]</i>					106	30 - 150			
<i>Surrogate: TCMX [2C]</i>					104	30 - 150			
<i>Surrogate: DCB [1C]</i>					113	30 - 150			
<i>Surrogate: DCB [2C]</i>					109	30 - 150			
<b>Matrix Spike Dup (B9A1807-MSD1)</b>					Source: 9010400-09 Prepared: 1/18/2019 Analyzed: 1/18/2019				
PCB-1016	1.62	0.12	1.157	ND	140	40 - 140	6.28	50	
PCB-1260	1.59	0.12	1.157	ND	138	40 - 140	0.530	50	
<i>Surrogate: TCMX [1C]</i>					109	30 - 150			
<i>Surrogate: TCMX [2C]</i>					107	30 - 150			
<i>Surrogate: DCB [1C]</i>					117	30 - 150			
<i>Surrogate: DCB [2C]</i>					114	30 - 150			

CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Batch B9A1901 - CT-ETPH**

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9A1901-BLK1)</b>									Prepared: 1/19/2019 Analyzed: 1/21/2019
ETPH	ND	50							
<i>Surrogate: Octacosane</i>					102	50 - 150			
<b>LCS (B9A1901-BS1)</b>									Prepared: 1/19/2019 Analyzed: 1/21/2019
ETPH	1130	50	1,500.000		75.5	60 - 120			
<i>Surrogate: Octacosane</i>					108	50 - 150			

CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Batch B9A2108 - SM 2540 G**

Analyte	Result (%)	RL (%)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Duplicate (B9A2108-DUP1)</b>				<b>Source: 9010400-22</b>					Prepared: 1/21/2019 Analyzed: 1/21/2019
Percent Solids	88	1.0		87			0.757	5	

CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Batch B9A2118 - EPA 6010C**

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9A2118-BLK1)</b>					Prepared: 1/21/2019 Analyzed: 1/21/2019				
Lead	ND	2.0							
Arsenic	ND	1.0							
<b>LCS (B9A2118-BS1)</b>					Prepared: 1/21/2019 Analyzed: 1/21/2019				
Lead	22.9	2.0	24.704		92.5	80 - 120			
Arsenic	23.5	0.99	24.704		95.1	80 - 120			
<b>Duplicate (B9A2118-DUP1)</b>					Source: 9010400-06 Prepared: 1/21/2019 Analyzed: 1/21/2019				
Lead	94.3	2.4		81.7			14.3	35	
Arsenic	4.34	1.2		3.72			15.4	35	
<b>Matrix Spike (B9A2118-MS1)</b>					Source: 9010400-06 Prepared: 1/21/2019 Analyzed: 1/21/2019				
Lead	117	2.3	29.135	81.7	121	75 - 125			
Arsenic	30.9	1.2	29.135	3.72	93.4	75 - 125			
<b>Matrix Spike Dup (B9A2118-MSD1)</b>					Source: 9010400-06 Prepared: 1/21/2019 Analyzed: 1/21/2019				
Lead	116	2.2	27.711	81.7	124	75 - 125	0.688	35	
Arsenic	29.8	1.1	27.711	3.72	94.1	75 - 125	3.69	35	

CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Batch B9A2303 - EPA 7471B**

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9A2303-BLK1)</b>									Prepared: 1/23/2019 Analyzed: 1/23/2019
Mercury	ND	0.13							
<b>LCS (B9A2303-BS1)</b>									Prepared: 1/23/2019 Analyzed: 1/23/2019
Mercury	2.28	0.13	2.500		91.3	80 - 120			

CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Batch B9A2547 - EPA 8260C

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9A2547-BLK1)</b>					Prepared: 1/25/2019 Analyzed: 1/25/2019				
Dichlorodifluoromethane	ND	7.5							
Chloromethane	ND	5.0							
Vinyl Chloride	ND	2.5							
Bromomethane	ND	5.0							
Chloroethane	ND	5.0							
Trichlorofluoromethane	ND	20							
Acetone	ND	75							
Acrylonitrile	ND	4.0							
Trichlorotrifluoroethane	ND	20							
1,1-Dichloroethene	ND	2.5							
Methylene Chloride	ND	30							
Carbon Disulfide	ND	5.0							
Methyl-t-Butyl Ether (MTBE)	ND	2.5							
trans-1,2-Dichloroethene	ND	2.5							
1,1-Dichloroethane	ND	2.5							
2-Butanone (MEK)	ND	13							
2,2-Dichloropropane	ND	2.5							
cis-1,2-Dichloroethene	ND	2.5							
Bromochloromethane	ND	2.5							
Chloroform	ND	2.5							
Tetrahydrofuran	ND	13							
1,1,1-Trichloroethane	ND	2.5							
Carbon Tetrachloride	ND	2.5							
1,1-Dichloropropene	ND	2.5							
Benzene	ND	2.5							
1,2-Dichloroethane	ND	2.5							
Trichloroethene	ND	2.5							
1,2-Dichloropropane	ND	2.5							
Dibromomethane	ND	2.5							
Bromodichloromethane	ND	2.5							
Methyl Isobutyl Ketone	ND	13							
cis-1,3-Dichloropropene	ND	2.5							
Toluene	ND	2.5							
trans-1,3-Dichloropropene	ND	2.5							
2-Hexanone	ND	13							
1,1,2-Trichloroethane	ND	2.5							
Tetrachloroethene	ND	2.5							
1,3-Dichloropropane	ND	2.5							
Dibromochloromethane	ND	2.5							
1,2-Dibromoethane	ND	2.5							
trans-1,4-Dichloro-2-Butene	ND	13							
Chlorobenzene	ND	2.5							
1,1,1,2-Tetrachloroethane	ND	2.5							
Ethylbenzene	ND	2.5							
m+p Xylenes	ND	2.5							
o-Xylene	ND	2.5							
Styrene	ND	2.5							
Bromoform	ND	2.5							
Isopropylbenzene	ND	2.5							
1,1,2,2-Tetrachloroethane	ND	2.5							
Bromobenzene	ND	2.5							

CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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**Blank (B9A2547-BLK1) - Continued**

Prepared: 1/25/2019 Analyzed: 1/25/2019

1,2,3-Trichloropropane	ND	2.5							
n-Propylbenzene	ND	2.5							
2-Chlorotoluene	ND	2.5							
4-Chlorotoluene	ND	2.5							
1,3,5-Trimethylbenzene	ND	2.5							
tert-Butylbenzene	ND	2.5							
1,2,4-Trimethylbenzene	ND	2.5							
sec-Butylbenzene	ND	2.5							
1,3-Dichlorobenzene	ND	2.5							
4-Isopropyltoluene	ND	2.5							
1,4-Dichlorobenzene	ND	2.5							
1,2-Dichlorobenzene	ND	2.5							
n-Butylbenzene	ND	2.5							
1,2-Dibromo-3-Chloropropane	ND	2.5							
1,2,4-Trichlorobenzene	ND	2.5							
Hexachlorobutadiene	ND	2.5							
Naphthalene	ND	5.0							
1,2,3-Trichlorobenzene	ND	5.0							

Surrogate: 1,2-Dichloroethane-d4

106 70 - 130

Surrogate: Toluene-d8

102 70 - 130

Surrogate: 4-Bromofluorobenzene

101 70 - 130

**LCS (B9A2547-BS1)**

Prepared: 1/25/2019 Analyzed: 1/25/2019

Dichlorodifluoromethane	49.9	7.5	50.000		99.9	70 - 130			
Chloromethane	62.2	5.0	50.000		124	70 - 130			
Vinyl Chloride	56.5	2.5	50.000		113	70 - 130			
Bromomethane	50.3	5.0	50.000		101	70 - 130			
Chloroethane	50.3	5.0	50.000		101	70 - 130			
Trichlorofluoromethane	46.5	20	50.000		93.0	70 - 130			
Acetone	124	75	100.000		124	70 - 130			
Acrylonitrile	49.2	4.0	50.000		98.4	70 - 130			
Trichlorotrifluoroethane	58.7	20	50.000		117	70 - 130			
1,1-Dichloroethene	53.5	2.5	50.000		107	70 - 130			
Methylene Chloride	62.8	30	50.000		126	70 - 130			
Carbon Disulfide	45.0	5.0	50.000		90.0	70 - 130			
Methyl-t-Butyl Ether (MTBE)	56.2	2.5	50.000		112	70 - 130			
trans-1,2-Dichloroethene	35.4	2.5	50.000		70.8	70 - 130			
1,1-Dichloroethane	55.6	2.5	50.000		111	70 - 130			
2-Butanone (MEK)	117	13	100.000		117	70 - 130			
2,2-Dichloropropane	50.7	2.5	50.000		101	70 - 130			
cis-1,2-Dichloroethene	57.1	2.5	50.000		114	70 - 130			
Bromochloromethane	56.8	2.5	50.000		114	70 - 130			
Chloroform	55.1	2.5	50.000		110	70 - 130			
Tetrahydrofuran	50.5	13	50.000		101	70 - 130			
1,1,1-Trichloroethane	51.8	2.5	50.000		104	70 - 130			
Carbon Tetrachloride	52.4	2.5	50.000		105	70 - 130			
1,1-Dichloropropene	52.6	2.5	50.000		105	70 - 130			
Benzene	53.3	2.5	50.000		107	70 - 130			
1,2-Dichloroethane	55.2	2.5	50.000		110	70 - 130			
Trichloroethene	55.1	2.5	50.000		110	70 - 130			
1,2-Dichloropropane	56.5	2.5	50.000		113	70 - 130			
Dibromomethane	56.0	2.5	50.000		112	70 - 130			
Bromodichloromethane	56.3	2.5	50.000		113	70 - 130			

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Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>LCS (B9A2547-BS1) - Continued</b>				Prepared: 1/25/2019 Analyzed: 1/25/2019					
Methyl Isobutyl Ketone	113	13	100.000		113	70 - 130			
cis-1,3-Dichloropropene	55.5	2.5	50.000		111	70 - 130			
Toluene	55.5	2.5	50.000		111	70 - 130			
trans-1,3-Dichloropropene	56.3	2.5	50.000		113	70 - 130			
2-Hexanone	115	13	100.000		115	70 - 130			
1,1,2-Trichloroethane	55.6	2.5	50.000		111	70 - 130			
Tetrachloroethene	52.7	2.5	50.000		105	70 - 130			
1,3-Dichloropropane	54.8	2.5	50.000		110	70 - 130			
Dibromochloromethane	54.6	2.5	50.000		109	70 - 130			
1,2-Dibromoethane	52.7	2.5	50.000		105	70 - 130			
trans-1,4-Dichloro-2-Butene	51.8	13	50.000		104	70 - 130			
Chlorobenzene	55.2	2.5	50.000		110	70 - 130			
1,1,1,2-Tetrachloroethane	55.6	2.5	50.000		111	70 - 130			
Ethylbenzene	56.7	2.5	50.000		113	70 - 130			
m+p Xylenes	115	2.5	100.000		115	70 - 130			
o-Xylene	56.5	2.5	50.000		113	70 - 130			
Styrene	57.6	2.5	50.000		115	70 - 130			
Bromoform	57.6	2.5	50.000		115	70 - 130			
Isopropylbenzene	60.5	2.5	50.000		121	70 - 130			
1,1,2,2-Tetrachloroethane	54.8	2.5	50.000		110	70 - 130			
Bromobenzene	56.0	2.5	50.000		112	70 - 130			
1,2,3-Trichloropropane	55.6	2.5	50.000		111	70 - 130			
n-Propylbenzene	64.2	2.5	50.000		128	70 - 130			
2-Chlorotoluene	59.0	2.5	50.000		118	70 - 130			
4-Chlorotoluene	58.8	2.5	50.000		118	70 - 130			
1,3,5-Trimethylbenzene	62.3	2.5	50.000		125	70 - 130			
tert-Butylbenzene	60.9	2.5	50.000		122	70 - 130			
1,2,4-Trimethylbenzene	62.1	2.5	50.000		124	70 - 130			
sec-Butylbenzene	64.9	2.5	50.000		130	70 - 130			
1,3-Dichlorobenzene	56.6	2.5	50.000		113	70 - 130			
4-Isopropyltoluene	65.0	2.5	50.000		130	70 - 130			
1,4-Dichlorobenzene	58.0	2.5	50.000		116	70 - 130			
1,2-Dichlorobenzene	56.8	2.5	50.000		114	70 - 130			
n-Butylbenzene	66.0	2.5	50.000		<b>132</b>	70 - 130			<b>H</b>
1,2-Dibromo-3-Chloropropane	54.8	2.5	50.000		110	70 - 130			
1,2,4-Trichlorobenzene	55.9	2.5	50.000		112	70 - 130			
Hexachlorobutadiene	57.8	2.5	50.000		116	70 - 130			
Naphthalene	53.1	5.0	50.000		106	70 - 130			
1,2,3-Trichlorobenzene	54.4	5.0	50.000		109	70 - 130			
Surrogate: 1,2-Dichloroethane-d4					105	70 - 130			
Surrogate: Toluene-d8					99.5	70 - 130			
Surrogate: 4-Bromofluorobenzene					100	70 - 130			



CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Batch B9A2834 - EPA 8260C

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9A2834-BLK1)</b>					Prepared: 1/28/2019 Analyzed: 1/28/2019				
Dichlorodifluoromethane	ND	7.5							
Chloromethane	ND	5.0							
Vinyl Chloride	ND	2.5							
Bromomethane	ND	5.0							
Chloroethane	ND	5.0							
Trichlorofluoromethane	ND	20							
Acetone	ND	75							
Acrylonitrile	ND	4.0							
Trichlorotrifluoroethane	ND	20							
1,1-Dichloroethene	ND	2.5							
Methylene Chloride	ND	30							
Carbon Disulfide	ND	5.0							
Methyl-t-Butyl Ether (MTBE)	ND	2.5							
trans-1,2-Dichloroethene	ND	2.5							
1,1-Dichloroethane	ND	2.5							
2-Butanone (MEK)	ND	13							
2,2-Dichloropropane	ND	2.5							
cis-1,2-Dichloroethene	ND	2.5							
Bromochloromethane	ND	2.5							
Chloroform	ND	2.5							
Tetrahydrofuran	ND	13							
1,1,1-Trichloroethane	ND	2.5							
Carbon Tetrachloride	ND	2.5							
1,1-Dichloropropene	ND	2.5							
Benzene	ND	2.5							
1,2-Dichloroethane	ND	2.5							
Trichloroethene	ND	2.5							
1,2-Dichloropropane	ND	2.5							
Dibromomethane	ND	2.5							
Bromodichloromethane	ND	2.5							
Methyl Isobutyl Ketone	ND	13							
cis-1,3-Dichloropropene	ND	2.5							
Toluene	ND	2.5							
trans-1,3-Dichloropropene	ND	2.5							
2-Hexanone	ND	13							
1,1,2-Trichloroethane	ND	2.5							
Tetrachloroethene	ND	2.5							
1,3-Dichloropropane	ND	2.5							
Dibromochloromethane	ND	2.5							
1,2-Dibromoethane	ND	2.5							
trans-1,4-Dichloro-2-Butene	ND	13							
Chlorobenzene	ND	2.5							
1,1,1,2-Tetrachloroethane	ND	2.5							
Ethylbenzene	ND	2.5							
m+p Xylenes	ND	2.5							
o-Xylene	ND	2.5							
Styrene	ND	2.5							
Bromoform	ND	2.5							
Isopropylbenzene	ND	2.5							
1,1,2,2-Tetrachloroethane	ND	2.5							
Bromobenzene	ND	2.5							

CET #:9010400

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9A2834-BLK1) - Continued</b>					Prepared: 1/28/2019 Analyzed: 1/28/2019				
1,2,3-Trichloropropane	ND	2.5							
n-Propylbenzene	ND	2.5							
2-Chlorotoluene	ND	2.5							
4-Chlorotoluene	ND	2.5							
1,3,5-Trimethylbenzene	ND	2.5							
tert-Butylbenzene	ND	2.5							
1,2,4-Trimethylbenzene	ND	2.5							
sec-Butylbenzene	ND	2.5							
1,3-Dichlorobenzene	ND	2.5							
4-Isopropyltoluene	ND	2.5							
1,4-Dichlorobenzene	ND	2.5							
1,2-Dichlorobenzene	ND	2.5							
n-Butylbenzene	ND	2.5							
1,2-Dibromo-3-Chloropropane	ND	2.5							
1,2,4-Trichlorobenzene	ND	2.5							
Hexachlorobutadiene	ND	2.5							
Naphthalene	ND	5.0							
1,2,3-Trichlorobenzene	ND	5.0							

Surrogate: 1,2-Dichloroethane-d4

104 70 - 130

Surrogate: Toluene-d8

100 70 - 130

Surrogate: 4-Bromofluorobenzene

89.0 70 - 130

**LCS (B9A2834-BS1)**

Prepared: 1/28/2019 Analyzed: 1/28/2019

Dichlorodifluoromethane	48.6	7.5	50.000		97.2	70 - 130			
Chloromethane	45.1	5.0	50.000		90.3	70 - 130			
Vinyl Chloride	42.7	2.5	50.000		85.4	70 - 130			
Bromomethane	52.6	5.0	50.000		105	70 - 130			
Chloroethane	53.8	5.0	50.000		108	70 - 130			
Trichlorofluoromethane	44.5	20	50.000		89.0	70 - 130			
Acetone	97.4	75	100.000		97.4	70 - 130			
Acrylonitrile	49.2	4.0	50.000		98.5	70 - 130			
Trichlorotrifluoroethane	47.5	20	50.000		94.9	70 - 130			
1,1-Dichloroethene	43.3	2.5	50.000		86.5	70 - 130			
Methylene Chloride	46.7	30	50.000		93.5	70 - 130			
Carbon Disulfide	46.9	5.0	50.000		93.9	70 - 130			
Methyl-t-Butyl Ether (MTBE)	46.2	2.5	50.000		92.5	70 - 130			
trans-1,2-Dichloroethene	46.2	2.5	50.000		92.4	70 - 130			
1,1-Dichloroethane	46.1	2.5	50.000		92.2	70 - 130			
2-Butanone (MEK)	101	13	100.000		101	70 - 130			
2,2-Dichloropropane	46.6	2.5	50.000		93.3	70 - 130			
cis-1,2-Dichloroethene	47.0	2.5	50.000		94.1	70 - 130			
Bromochloromethane	48.3	2.5	50.000		96.6	70 - 130			
Chloroform	44.2	2.5	50.000		88.4	70 - 130			
Tetrahydrofuran	49.8	13	50.000		99.7	70 - 130			
1,1,1-Trichloroethane	45.6	2.5	50.000		91.1	70 - 130			
Carbon Tetrachloride	44.8	2.5	50.000		89.5	70 - 130			
1,1-Dichloropropene	45.4	2.5	50.000		90.8	70 - 130			
Benzene	46.1	2.5	50.000		92.2	70 - 130			
1,2-Dichloroethane	49.4	2.5	50.000		98.8	70 - 130			
Trichloroethene	46.7	2.5	50.000		93.3	70 - 130			
1,2-Dichloropropane	49.1	2.5	50.000		98.2	70 - 130			
Dibromomethane	49.7	2.5	50.000		99.3	70 - 130			
Bromodichloromethane	49.3	2.5	50.000		98.6	70 - 130			

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Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>LCS (B9A2834-BS1) - Continued</b>					Prepared: 1/28/2019 Analyzed: 1/28/2019				
Methyl Isobutyl Ketone	105	13	100.000		105	70 - 130			
cis-1,3-Dichloropropene	49.8	2.5	50.000		99.5	70 - 130			
Toluene	47.4	2.5	50.000		94.8	70 - 130			
trans-1,3-Dichloropropene	50.2	2.5	50.000		100	70 - 130			
2-Hexanone	105	13	100.000		105	70 - 130			
1,1,2-Trichloroethane	50.9	2.5	50.000		102	70 - 130			
Tetrachloroethene	47.9	2.5	50.000		95.7	70 - 130			
1,3-Dichloropropane	50.4	2.5	50.000		101	70 - 130			
Dibromochloromethane	51.4	2.5	50.000		103	70 - 130			
1,2-Dibromoethane	51.2	2.5	50.000		102	70 - 130			
trans-1,4-Dichloro-2-Butene	51.9	13	50.000		104	70 - 130			
Chlorobenzene	49.7	2.5	50.000		99.3	70 - 130			
1,1,1,2-Tetrachloroethane	50.6	2.5	50.000		101	70 - 130			
Ethylbenzene	49.5	2.5	50.000		98.9	70 - 130			
m+p Xylenes	102	2.5	100.000		102	70 - 130			
o-Xylene	50.4	2.5	50.000		101	70 - 130			
Styrene	52.0	2.5	50.000		104	70 - 130			
Bromoform	51.8	2.5	50.000		104	70 - 130			
Isopropylbenzene	50.4	2.5	50.000		101	70 - 130			
1,1,2,2-Tetrachloroethane	51.5	2.5	50.000		103	70 - 130			
Bromobenzene	50.3	2.5	50.000		101	70 - 130			
1,2,3-Trichloropropane	50.2	2.5	50.000		100	70 - 130			
n-Propylbenzene	49.8	2.5	50.000		99.7	70 - 130			
2-Chlorotoluene	49.9	2.5	50.000		99.7	70 - 130			
4-Chlorotoluene	50.3	2.5	50.000		101	70 - 130			
1,3,5-Trimethylbenzene	50.4	2.5	50.000		101	70 - 130			
tert-Butylbenzene	49.0	2.5	50.000		97.9	70 - 130			
1,2,4-Trimethylbenzene	50.7	2.5	50.000		101	70 - 130			
sec-Butylbenzene	49.0	2.5	50.000		98.0	70 - 130			
1,3-Dichlorobenzene	50.4	2.5	50.000		101	70 - 130			
4-Isopropyltoluene	49.3	2.5	50.000		98.6	70 - 130			
1,4-Dichlorobenzene	50.5	2.5	50.000		101	70 - 130			
1,2-Dichlorobenzene	50.8	2.5	50.000		102	70 - 130			
n-Butylbenzene	49.4	2.5	50.000		98.7	70 - 130			
1,2-Dibromo-3-Chloropropane	49.9	2.5	50.000		99.7	70 - 130			
1,2,4-Trichlorobenzene	51.0	2.5	50.000		102	70 - 130			
Hexachlorobutadiene	41.8	2.5	50.000		83.5	70 - 130			
Naphthalene	53.8	5.0	50.000		108	70 - 130			
1,2,3-Trichlorobenzene	50.7	5.0	50.000		101	70 - 130			
Surrogate: 1,2-Dichloroethane-d4					97.7	70 - 130			
Surrogate: Toluene-d8					100	70 - 130			
Surrogate: 4-Bromofluorobenzene					101	70 - 130			

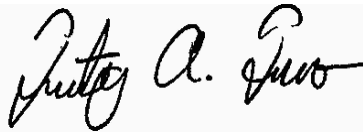
All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by Timothy Fusco



David Ditta  
Laboratory Director



Project Manager

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- \*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- \*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- \*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- \*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- \*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

RL is the Reporting Limit

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.



80 Lupes Drive  
Stratford, CT 06615

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

### Quality Control Definitions and Abbreviations

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

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



Connecticut Laboratory Certification PH0116  
Massachusetts Laboratory Certification M-CT903

New York NELAP Accreditation 11982  
Rhode Island Certification 199



## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

**Client:** Arcadis, Sandy Hook CT

**Project Location:** Mallory Hat Factory, Danbury

**Project Number:** HT212711.0000.00001

**Laboratory Sample ID(s):**

9010400-01 thru 9010400-24

**Sample Date(s):**

01/16/2019

**List RCP Methods Used:**

CT-ETPH, EPA 6010C, EPA 7471B, EPA 8082A, EPA 8260C

**CET #:** 9010400

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

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

This form may not be altered and all questions must be answered.

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

**Authorized Signature:**

**Position:** Laboratory Director

**Printed Name:** David Ditta

**Date:** 01/29/2019

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

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

## RCP Case Narrative

4- See Exceptions Report Below

6- Client requested a subset of the RCP metals list.

### 4- Exceptions Report

<b>Analyte</b>	<b>QC Type</b>	<b>Exception</b>	<b>Result</b>	<b>RPD</b>	<b>Recovery (%)</b>	<b>Batch/Sequence Sample ID</b>
n-Butylbenzene	LCS	High	66.0		132	B9A2547
1,1-Dichloroethene	CC	Low	39.5		79.0	S9A2807
Chloromethane	CC	High	60.5		121	S9A2807
Dichlorodifluoromethane	CC	High	72.0		144	S9A2807
Bromomethane	ICV	Analyte exceeds method limit of second source standard. Non-directional bias				
Chloromethane	ICV	Analyte exceeds method limit of second source standard. Non-directional bias				
Dichlorodifluoromethane	ICV	Analyte exceeds method limit of second source standard. Non-directional bias				
Tetrachloroethene	ICV	Analyte exceeds method limit of second source standard. Non-directional bias				
Vinyl Chloride	ICV	Analyte exceeds method limit of second source standard. Non-directional bias				
Dichlorodifluoromethane	ICV	Analyte exceeds method limit of second source standard. Non-directional bias				
Hexachlorobutadiene	ICV	Analyte exceeds method limit of second source standard. Non-directional bias				
Tetrachloroethene	ICV	Analyte exceeds method limit of second source standard. Non-directional bias				

QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B9A1901	S9A2110	9010400-02	MW-3 5ft	CT-ETPH	Soil	01/16/2019
B9A1901	S9A2110	9010400-03	MW-2 5ft	CT-ETPH	Soil	01/16/2019
B9A1901	S9A2110	9010400-04	MW-2 10-12ft	CT-ETPH	Soil	01/16/2019
B9A1901	S9A2110	9010400-05	BLD-1 1-2ft	CT-ETPH	Soil	01/16/2019
B9A1901	S9A2110	9010400-06	BLD-1 4-5ft	CT-ETPH	Soil	01/16/2019
B9A1901	S9A2110	9010400-07	BLD-2 0-2ft	CT-ETPH	Soil	01/16/2019
B9A1901	S9A2110	9010400-10	FB-1 0-2ft	CT-ETPH	Soil	01/16/2019
B9A1901	S9A2110	9010400-11	SB-5S 4ft	CT-ETPH	Soil	01/16/2019
B9A1901	S9A2110	9010400-12	AS-4S 0-1ft	CT-ETPH	Soil	01/16/2019
B9A1901	S9A2110	9010400-13	AS-4S 6-7ft	CT-ETPH	Soil	01/16/2019
B9A1901	S9A2110	9010400-14	A-6 0-2ft	CT-ETPH	Soil	01/16/2019
B9A1901	S9A2110	9010400-16	RG-1 0-2ft	CT-ETPH	Soil	01/16/2019
B9A1901	S9A2110	9010400-17	RG-1 4ft	CT-ETPH	Soil	01/16/2019
B9A1901	S9A2110	9010400-18	RG-2 0-2ft	CT-ETPH	Soil	01/16/2019
B9A1901	S9A2110	9010400-19	RG-2 4ft	CT-ETPH	Soil	01/16/2019
B9A1901	S9A2110	9010400-20	PLG-1 0-2ft	CT-ETPH	Soil	01/16/2019
B9A1901	S9A2110	9010400-24	Dup-1	CT-ETPH	Soil	01/16/2019
B9A2118	S9A2106	9010400-01	MW-4 5ft	EPA 6010C	Soil	01/16/2019
B9A2118	S9A2106	9010400-05	BLD-1 1-2ft	EPA 6010C	Soil	01/16/2019
B9A2118	S9A2106	9010400-06	BLD-1 4-5ft	EPA 6010C	Soil	01/16/2019
B9A2118	S9A2106	9010400-07	BLD-2 0-2ft	EPA 6010C	Soil	01/16/2019
B9A2118	S9A2106	9010400-10	FB-1 0-2ft	EPA 6010C	Soil	01/16/2019
B9A2118	S9A2106	9010400-12	AS-4S 0-1ft	EPA 6010C	Soil	01/16/2019
B9A2118	S9A2106	9010400-13	AS-4S 6-7ft	EPA 6010C	Soil	01/16/2019
B9A2118	S9A2106	9010400-14	A-6 0-2ft	EPA 6010C	Soil	01/16/2019
B9A2118	S9A2106	9010400-15	A-9 0-2ft	EPA 6010C	Soil	01/16/2019
B9A2118	S9A2106	9010400-16	RG-1 0-2ft	EPA 6010C	Soil	01/16/2019
B9A2118	S9A2106	9010400-17	RG-1 4ft	EPA 6010C	Soil	01/16/2019
B9A2118	S9A2106	9010400-18	RG-2 0-2ft	EPA 6010C	Soil	01/16/2019
B9A2118	S9A2106	9010400-19	RG-2 4ft	EPA 6010C	Soil	01/16/2019
B9A2118	S9A2106	9010400-20	PLG-1 0-2ft	EPA 6010C	Soil	01/16/2019
B9A2118	S9A2106	9010400-24	Dup-1	EPA 6010C	Soil	01/16/2019
B9A1802		9010400-01	MW-4 5ft	EPA 7471B	Soil	01/16/2019
B9A1802		9010400-02	MW-3 5ft	EPA 7471B	Soil	01/16/2019
B9A1802		9010400-03	MW-2 5ft	EPA 7471B	Soil	01/16/2019
B9A1803		9010400-04	MW-2 10-12ft	EPA 7471B	Soil	01/16/2019
B9A1803		9010400-05	BLD-1 1-2ft	EPA 7471B	Soil	01/16/2019
B9A1803		9010400-06	BLD-1 4-5ft	EPA 7471B	Soil	01/16/2019
B9A1803		9010400-07	BLD-2 0-2ft	EPA 7471B	Soil	01/16/2019
B9A1803		9010400-10	FB-1 0-2ft	EPA 7471B	Soil	01/16/2019
B9A1803		9010400-12	AS-4S 0-1ft	EPA 7471B	Soil	01/16/2019
B9A1803		9010400-15	A-9 0-2ft	EPA 7471B	Soil	01/16/2019
B9A1803		9010400-17	RG-1 4ft	EPA 7471B	Soil	01/16/2019
B9A1803		9010400-18	RG-2 0-2ft	EPA 7471B	Soil	01/16/2019
B9A1803		9010400-19	RG-2 4ft	EPA 7471B	Soil	01/16/2019
B9A1803		9010400-20	PLG-1 0-2ft	EPA 7471B	Soil	01/16/2019
B9A1803		9010400-22	MHS-3W1 0-2ft	EPA 7471B	Soil	01/16/2019
B9A1803		9010400-23	MHS-3N1 0-2ft	EPA 7471B	Soil	01/16/2019



B9A1803		9010400-24	Dup-1	EPA 7471B	Soil	01/16/2019
B9A2303		9010400-13	AS-4S 6-7ft	EPA 7471B	Soil	01/16/2019
B9A2303		9010400-14	A-6 0-2ft	EPA 7471B	Soil	01/16/2019
B9A2303		9010400-16	RG-1 0-2ft	EPA 7471B	Soil	01/16/2019
B9A2303		9010400-21	MHS-3S1 4ft	EPA 7471B	Soil	01/16/2019
B9A1807	S9A1807	9010400-03	MW-2 5ft	EPA 8082A	Soil	01/16/2019
B9A1807	S9A1807	9010400-08	TFR-1 0-2ft	EPA 8082A	Soil	01/16/2019
B9A1807	S9A1807	9010400-09	TFR-2 0-2ft	EPA 8082A	Soil	01/16/2019
B9A2547	S9A2807	9010400-14	A-6 0-2ft	EPA 8260C	Soil	01/16/2019
B9A2547	S9A2807	9010400-15	A-9 0-2ft	EPA 8260C	Soil	01/16/2019
B9A2547	S9A2807	9010400-23	MHS-3N1 0-2ft	EPA 8260C	Soil	01/16/2019
B9A2834	S9A2905	9010400-05	BLD-1 1-2ft	EPA 8260C	Soil	01/16/2019
B9A2834	S9A2905	9010400-07	BLD-2 0-2ft	EPA 8260C	Soil	01/16/2019

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<b><i>CT-ETPH in Soil</i></b>	
ETPH	CT
<b><i>EPA 6010C in Soil</i></b>	
Lead	CT,NY,PA
Arsenic	CT,NY,PA
<b><i>EPA 7471B in Soil</i></b>	
Mercury	CT,NY,PA
<b><i>EPA 8082A in Soil</i></b>	
PCB-1016	CT,NY,PA
PCB-1221	CT,NY,PA
PCB-1232	CT,NY,PA
PCB-1242	CT,NY,PA
PCB-1248	CT,NY,PA
PCB-1254	CT,NY,PA
PCB-1260	CT,NY,PA
PCB-1268	CT,NY,PA
PCB-1262	NY,PA
<b><i>EPA 8260C in Soil</i></b>	
Dichlorodifluoromethane	CT,NY,PA
Chloromethane	CT,NY,PA
Vinyl Chloride	CT,NY,PA
Bromomethane	CT,NY,PA
Chloroethane	CT,NY,PA
Trichlorofluoromethane	CT,NY,PA
Acetone	CT,NY,PA
Acrylonitrile	CT
Trichlorotrifluoroethane	CT,NY,PA
1,1-Dichloroethene	CT,NY,PA
Methylene Chloride	CT,NY,PA
Carbon Disulfide	CT,NY,PA
Methyl-t-Butyl Ether (MTBE)	CT,NY,PA
trans-1,2-Dichloroethene	CT,NY,PA
1,1-Dichloroethane	CT,NY,PA
2-Butanone (MEK)	CT,NY,PA
2,2-Dichloropropane	CT,NY,PA
cis-1,2-Dichloroethene	CT,NY,PA
Bromochloromethane	CT,NY,PA
Chloroform	CT,NY,PA
Tetrahydrofuran	CT
1,1,1-Trichloroethane	CT,NY,PA
Carbon Tetrachloride	CT,NY,PA
1,1-Dichloropropene	CT,NY,PA
Benzene	CT,NY,PA
1,2-Dichloroethane	CT,NY,PA
Trichloroethene	CT,NY,PA
1,2-Dichloropropane	CT,NY,PA

CERTIFICATIONS

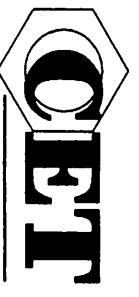
Certified Analyses included in this Report

Analyte	Certifications
<b>EPA 8260C in Soil</b>	
Dibromomethane	CT,NY,PA
Bromodichloromethane	CT,NY,PA
Methyl Isobutyl Ketone	CT,NY,PA
cis-1,3-Dichloropropene	CT,NY,PA
Toluene	CT,NY,PA
trans-1,3-Dichloropropene	CT,NY,PA
2-Hexanone	CT,NY,PA
1,1,2-Trichloroethane	CT,NY,PA
Tetrachloroethene	CT,NY,PA
1,3-Dichloropropane	CT,NY,PA
Dibromochloromethane	CT,NY,PA
1,2-Dibromoethane	CT,NY,PA
trans-1,4-Dichloro-2-Butene	CT,NY,PA
Chlorobenzene	CT,NY,PA
1,1,1,2-Tetrachloroethane	CT,NY,PA
Ethylbenzene	CT,NY,PA
m+p Xylenes	CT,NY,PA
o-Xylene	CT,NY,PA
Styrene	CT,NY,PA
Bromoform	CT,NY,PA
Isopropylbenzene	CT,NY,PA
1,1,2,2-Tetrachloroethane	CT,NY,PA
Bromobenzene	CT,NY,PA
1,2,3-Trichloropropane	CT,NY,PA
n-Propylbenzene	CT,NY,PA
2-Chlorotoluene	CT,NY,PA
4-Chlorotoluene	CT,NY,PA
1,3,5-Trimethylbenzene	CT,NY,PA
tert-Butylbenzene	CT,NY,PA
1,2,4-Trimethylbenzene	CT,NY,PA
sec-Butylbenzene	CT,NY,PA
1,3-Dichlorobenzene	CT,NY,PA
4-Isopropyltoluene	CT,NY,PA
1,4-Dichlorobenzene	CT,NY,PA
1,2-Dichlorobenzene	CT,NY,PA
n-Butylbenzene	CT,NY,PA
1,2-Dibromo-3-Chloropropane	CT,NY,PA
1,2,4-Trichlorobenzene	CT,NY,PA
Hexachlorobutadiene	CT,NY,PA
Naphthalene	CT,NY,PA
1,2,3-Trichlorobenzene	CT
<b>SM 2540 G in Soil</b>	
Percent Solids	CT

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2020
NY	New York Certification (NELAC)	11982	04/01/2019
PA	Pennsylvania DEP	68-02927	05/31/2019

9010400



COMPLETE ENVIRONMENTAL TESTING, INC.

### CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client: 1/16/09 S. 200A-13.20

CET:

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

### Sample ID/Sample Depths

(Include Units for any sample depths provided)

Sample ID/Sample Depths	Collection Date/Time	Matrix	Turnaround Time ** (check one)
		A-Air S-Soil W-Water DW=Drinking Water C=Cassette Solid Other	Same Day * Next Day * Two Day * Three Day * Std (5-7 Days)
MW-4(5')	11/19 2:00	S	X
MW-3(5')	11/30	S	X
MW-2(5')	10/30	S	X
MW-2(10-12')	10/30	S	X
BLD-1(1-2')	11:00	S	X
BLD-1(4-5')	11:00	S	X
BLD-2(10-2')	1:55	S	X
TR-1(10-2')	10:15	S	X
TR-2(10-2')	10:20	S	X
TRB-1(10-2')	10:30	S	X

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

Soil WOCs Only (M-MeOH B-Bisulfite W-Water F-F Empty E-Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME
<u>[Signature]</u>	11/19 10:20	<u>[Signature]</u>	11/19 10:20
<u>[Signature]</u>	11/15 13:00	<u>[Signature]</u>	11/15 13:00

### Client / Reporting Information

Company Name: ALCORIS

Address: 75 Glen Road State: CT Zip: 06482

City: Somerset

Report To: Paul Nobile E-mail: paulnobile@alcoris.com

Phone #: 203-514-4515 Fax #:

Metals	Additional Analysis	TOTAL # OF CONT.	NOTE #
8260 CT List			
8260 Aromatics			
8260 Halogens			
CT ETPH			
8270 CT List			
8270 PNAs			
PCBs <input type="checkbox"/> SOX <input checked="" type="checkbox"/> ASE			
Pesticides			
8 RCRA			
13 Priority Poll			
15 CT DEP			
Total <u>15</u>			
SPLP			
TCLP			
Dissolved			
Field Filtered			
Lab to Filter			

NOTES: See page 3

### Project Information

Project: Drumway Air Toxicology PO #:

Location: Drumway, CT Project #: H1212711, 0000, 0000

CET Quote #  Collector(s): WSPB

QA/QC  Sid  Site Specific (MS/MSD) \*  RCP Pkg \*  DQAW \*

Data Report  PDF  EDD - Specify Format Excel Other:

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

Laboratory Certification Needed (check one)  CT  NY  RI  MA

Temp Upon Receipt: 3.1 °C Evidence of Cooling: N

PAGE 1 OF 3

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.



9010400



COMPLETE ENVIRONMENTAL TESTING, INC.

# CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client: 11/6/2019 5:00pm -13.2

CET:

Additional Analysis

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

### Sample ID/Sample Depths

(include Units for any sample depths provided)

Sample ID/Sample Depths	Collection Date/Time	Matrix	Turnaround Time ** (check one)
SB-5S(41)	11/6/19 12:05	A=Air S=Soil W=Water DW=Drinking Water C=Cassette Solid Wipe Other (Specify)	Same Day * Next Day * Two Day * Three Day * Std (5-7 Days)
AS-4S(6-11)	1:40	S	X
AS-4S(6-71)	1:40	S	X
A-6(0-2)	2:10		X
A-9(0-2)	2:20		X
RG-1(0-2)	1:00		X
RG-1(4)	1:00		X
RG-2(0-2)	1:10		X
RG-2(4)	1:10		X
PLG-1(0-2)	11:45		X

PRESERVATIVE (Cl-HCl, N-HNO<sub>3</sub>, S-H<sub>2</sub>SO<sub>4</sub>, Na-NaOH, C=Cool, O-Other)

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

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

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME
[Signature]	11/15 10:20	[Signature]	11/15 13:35
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME
[Signature]	11/15 13:35	[Signature]	

### Client / Reporting Information

Company Name: ARCADIS

Address: 75 GLENN ROAD State: CT Zip: 06482

City: SARVING HOOK

Report To: Paul Narelli E-mail: Paul.Narelli@arcadis.com

Phone #: 203-514-4515 Fax #: \_\_\_\_\_

8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs <input type="checkbox"/> SOX <input type="checkbox"/> ASE	Pesticides	8 RCRA	13 Priority Poll	15 CT DEP	Total	SPLP	TCLP	Dissolved	Field Filtered	Lab to Filter	TOTAL # OF CONT.	NOTE #
X	X	X	X	X	X				X	X	X	X	X	X	X	X	16	
X	X	X	X	X	X				X	X	X	X	X	X	X	X	32	

### NOTES:

① See page 3

### Project Information

Project: Mansing WPT Facility PO #: \_\_\_\_\_

Location: Darby, CT Project #: HT12711, 0000-00001

CET Quote # \_\_\_\_\_ Collector(s): MSRV

QA/QC  Std  Site Specific (MS/MSD) \*  RCP Pkg \*  DOAW \*

Data Report  PDF  EDD - Specify Format Excel Other \_\_\_\_\_

RSR Reporting Limits (check one)  GA  GB  SWP  Other \_\_\_\_\_

Laboratory Certification Needed (check one)  CT  NY  RI  MA

Temp Upon Receipt 3.1 °C Evidence of Cooling:  Y  N

PAGE 2 OF 3

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes. REV. 10/16



Client: Mr. Paul Natoli  
Arcadis, Inc.  
75 Glen Road, Ste 305  
Sandy Hook, CT 06482

# Analytical Report

## CET# 9010461



Report Date: January 29, 2019  
Project: Mallory Hat Factory, Danbury  
Project Number: HT212711.0000.00001

Connecticut Laboratory Certificate: PH 0116  
Massachusetts Laboratory Certificate: M-CT903  
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982  
Pennsylvania Certificate: 68-02927



CET #:9010461

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**SAMPLE SUMMARY**

The sample(s) were received at 2.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
MW-1 0-2ft	9010461-01	Soil	1/17/2019 9:00	01/18/2019
MW-5 0-2ft	9010461-02	Soil	1/17/2019 11:00	01/18/2019
MW-5 5-7ft	9010461-03	Soil	1/17/2019 11:20	01/18/2019
MW-5 10-12ft	9010461-04	Soil	1/17/2019 11:40	01/18/2019
MW-6 0-2ft	9010461-05	Soil	1/17/2019 13:00	01/18/2019
MW-6 5-7ft	9010461-06	Soil	1/17/2019 13:30	01/18/2019
MW-6 10-12ft	9010461-07	Soil	1/17/2019 13:50	01/18/2019

CET #:9010461

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Analyte: Percent Solids [SM 2540 G]**

**Analyst: SLP**

**Matrix: Soil**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9010461-01	MW-1 0-2ft	88	1.0	%	1	B9A2128	01/21/2019	01/21/2019 15:50	
9010461-02	MW-5 0-2ft	89	1.0	%	1	B9A2128	01/21/2019	01/21/2019 15:50	
9010461-03	MW-5 5-7ft	77	1.0	%	1	B9A2128	01/21/2019	01/21/2019 15:50	
9010461-04	MW-5 10-12ft	86	1.0	%	1	B9A2128	01/21/2019	01/21/2019 15:50	
9010461-05	MW-6 0-2ft	85	1.0	%	1	B9A2128	01/21/2019	01/21/2019 15:50	
9010461-06	MW-6 5-7ft	76	1.0	%	1	B9A2128	01/21/2019	01/21/2019 15:50	
9010461-07	MW-6 10-12ft	86	1.0	%	1	B9A2128	01/21/2019	01/21/2019 15:50	

**Analyte: Mercury [EPA 7471B]**

**Analyst: SFJ**

**Matrix: Soil**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9010461-02	MW-5 0-2ft	28	0.74	mg/kg dry	5	B9A1804	01/21/2019	01/21/2019 14:23	
9010461-03	MW-5 5-7ft	47	1.5	mg/kg dry	10	B9A1804	01/21/2019	01/21/2019 15:00	
9010461-04	MW-5 10-12ft	2.6	0.15	mg/kg dry	1	B9A1804	01/21/2019	01/21/2019 13:29	
9010461-05	MW-6 0-2ft	33	1.5	mg/kg dry	10	B9A1804	01/21/2019	01/21/2019 15:02	
9010461-06	MW-6 5-7ft	1.8	0.17	mg/kg dry	1	B9A1804	01/21/2019	01/21/2019 13:40	
9010461-07	MW-6 10-12ft	0.17	0.15	mg/kg dry	1	B9A1804	01/21/2019	01/21/2019 13:42	

**Analyte: Total Lead [EPA 6010C]**

**Analyst: SS**

**Prep: EPA 3051A**

**Matrix: Soil**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9010461-05	MW-6 0-2ft	260	2.3	mg/kg dry	1	B9A2217	01/22/2019	01/22/2019 15:04	
9010461-06	MW-6 5-7ft	11	2.6	mg/kg dry	1	B9A2217	01/22/2019	01/22/2019 15:08	
9010461-07	MW-6 10-12ft	3.7	2.3	mg/kg dry	1	B9A2217	01/22/2019	01/22/2019 15:12	

CET #:9010461

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

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

**Analyst: SS**

**Prep: EPA 3051A**

**Matrix: Soil**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9010461-05	MW-6 0-2ft	6.8	1.2	mg/kg dry	1	B9A2217	01/22/2019	01/22/2019 15:04	
9010461-06	MW-6 5-7ft	ND	1.3	mg/kg dry	1	B9A2217	01/22/2019	01/22/2019 15:08	
9010461-07	MW-6 10-12ft	ND	1.2	mg/kg dry	1	B9A2217	01/22/2019	01/22/2019 15:12	

CET #:9010461

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID MW-1 0-2ft

Lab ID: 9010461-01

**Volatile Organics**  
**Method: EPA 8260C**

Analyst: ALM

Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
1,1,1-Trichloroethane	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
1,1,2,2-Tetrachloroethane	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
1,1,2-Trichloroethane	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
1,1-Dichloroethane	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
1,1-Dichloroethene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
1,1-Dichloropropene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
1,2,3-Trichlorobenzene	ND	7.9	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
1,2,3-Trichloropropane	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
1,2,4-Trichlorobenzene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
1,2,4-Trimethylbenzene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
1,2-Dibromo-3-Chloropropane	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
1,2-Dibromoethane	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
1,2-Dichlorobenzene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
1,2-Dichloroethane	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
1,2-Dichloropropane	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
1,3,5-Trimethylbenzene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
1,3-Dichlorobenzene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
1,3-Dichloropropane	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
1,4-Dichlorobenzene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
2,2-Dichloropropane	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
2-Butanone (MEK)	ND	20	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
2-Chlorotoluene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
2-Hexanone	ND	20	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
4-Chlorotoluene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
<b>4-Isopropyltoluene</b>	<b>17</b>	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Acetone	ND	120	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Acrylonitrile	ND	6.3	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Benzene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Bromobenzene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Bromochloromethane	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Bromodichloromethane	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Bromoform	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Bromomethane	ND	7.9	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Carbon Disulfide	ND	7.9	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Carbon Tetrachloride	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	

Complete Environmental Testing, Inc.

80 Lupes Drive, Stratford, CT 06615 • Tel: 203-377-9984 • Fax: 203-377-9952 • www.cetlabs.com

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CET #:9010461

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID MW-1 0-2ft

Lab ID: 9010461-01

## Volatile Organics

Analyst: ALM

Method: EPA 8260C

Matrix: Soil

Analyte	Result (ug/kg dry)	RL (ug/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Chlorobenzene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Chloroethane	ND	7.9	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Chloroform	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Chloromethane	ND	7.9	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
cis-1,2-Dichloroethene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
cis-1,3-Dichloropropene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Dibromochloromethane	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Dibromomethane	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Dichlorodifluoromethane	ND	12	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	*I
Ethylbenzene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Hexachlorobutadiene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	*I
Isopropylbenzene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
m+p Xylenes	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Methyl Isobutyl Ketone	ND	20	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Methylene Chloride	ND	48	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Methyl-t-Butyl Ether (MTBE)	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Naphthalene	ND	7.9	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
n-Butylbenzene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
n-Propylbenzene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
o-Xylene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
sec-Butylbenzene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Styrene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
tert-Butylbenzene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Tetrachloroethene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	*I
Tetrahydrofuran	ND	20	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Toluene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
trans-1,2-Dichloroethene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
trans-1,3-Dichloropropene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
trans-1,4-Dichloro-2-Butene	ND	20	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Trichloroethene	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Trichlorofluoromethane	ND	32	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Trichlorotrifluoroethane	ND	32	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Vinyl Chloride	ND	4.0	1.39	EPA 5035A-L	B9A2834	01/28/2019	01/28/2019 23:36	
Surrogate: 1,2-Dichloroethane-d4	101 %	70 - 130			B9A2834	01/28/2019	01/28/2019 23:36	
Surrogate: 4-Bromofluorobenzene	97.0 %	70 - 130			B9A2834	01/28/2019	01/28/2019 23:36	
Surrogate: Toluene-d8	98.9 %	70 - 130			B9A2834	01/28/2019	01/28/2019 23:36	

CET #:9010461

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Client Sample ID MW-6 0-2ft**

**Lab ID: 9010461-05**

**Conn. Extractable TPH**

**Method: CT-ETPH**

**Analyst: KER**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
<b>ETPH</b>	<b>370</b>	58	1	EPA 3550C	B9A2301	01/23/2019	01/24/2019 11:26	R
<i>Surrogate: Octacosane</i>	141 %	50 - 150			B9A2301	01/23/2019	01/24/2019 11:26	
R C18-C36 unknown								

**Client Sample ID MW-6 5-7ft**

**Lab ID: 9010461-06**

**Conn. Extractable TPH**

**Method: CT-ETPH**

**Analyst: KER**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
<b>ETPH</b>	<b>ND</b>	66	1	EPA 3550C	B9A2301	01/23/2019	01/23/2019 23:01	
<i>Surrogate: Octacosane</i>	131 %	50 - 150			B9A2301	01/23/2019	01/23/2019 23:01	

**Client Sample ID MW-6 10-12ft**

**Lab ID: 9010461-07**

**Conn. Extractable TPH**

**Method: CT-ETPH**

**Analyst: KER**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
<b>ETPH</b>	<b>ND</b>	58	1	EPA 3550C	B9A2301	01/23/2019	01/23/2019 23:24	
<i>Surrogate: Octacosane</i>	132 %	50 - 150			B9A2301	01/23/2019	01/23/2019 23:24	

CET #:9010461

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

### QUALITY CONTROL SECTION

#### Batch B9A1804 - EPA 7471B

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9A1804-BLK1)</b>									Prepared: 1/21/2019 Analyzed: 1/21/2019
Mercury	ND	0.13							
<b>LCS (B9A1804-BS1)</b>									Prepared: 1/21/2019 Analyzed: 1/21/2019
Mercury	2.31	0.13	2.500		92.2	80 - 120			
<b>Duplicate (B9A1804-DUP1)</b>									Prepared: 1/21/2019 Analyzed: 1/21/2019
Mercury	21.5	0.74		27.8			25.8	20	D
<b>Matrix Spike (B9A1804-MS1)</b>									Prepared: 1/21/2019 Analyzed: 1/21/2019
Mercury	#	0.74	2.960	27.8	#	75 - 125			#
<b>Matrix Spike Dup (B9A1804-MSD1)</b>									Prepared: 1/21/2019 Analyzed: 1/21/2019
Mercury	#	0.74	2.960	27.8	#	75 - 125	#	20	#

CET #:9010461

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Batch B9A2217 - EPA 6010C**

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9A2217-BLK1)</b>					Prepared: 1/22/2019 Analyzed: 1/22/2019				
Lead	ND	2.0							
Arsenic	ND	1.0							
<b>LCS (B9A2217-BS1)</b>					Prepared: 1/22/2019 Analyzed: 1/22/2019				
Lead	23.1	2.0	25.000		92.6	80 - 120			
Arsenic	23.9	1.0	25.000		95.5	80 - 120			



CET #:9010461

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Batch B9A2301 - CT-ETPH**

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9A2301-BLK1)</b>									Prepared: 1/23/2019 Analyzed: 1/23/2019
ETPH	ND	50							
<i>Surrogate: Octacosane</i>					125	50 - 150			
<b>LCS (B9A2301-BS1)</b>									Prepared: 1/23/2019 Analyzed: 1/23/2019
ETPH	1450	50	1,500.000		96.6	60 - 120			
<i>Surrogate: Octacosane</i>					122	50 - 150			

CET #:9010461

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Batch B9A2834 - EPA 8260C

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9A2834-BLK1)</b>					Prepared: 1/28/2019 Analyzed: 1/28/2019				
Dichlorodifluoromethane	ND	7.5							
Chloromethane	ND	5.0							
Vinyl Chloride	ND	2.5							
Bromomethane	ND	5.0							
Chloroethane	ND	5.0							
Trichlorofluoromethane	ND	20							
Acetone	ND	75							
Acrylonitrile	ND	4.0							
Trichlorotrifluoroethane	ND	20							
1,1-Dichloroethene	ND	2.5							
Methylene Chloride	ND	30							
Carbon Disulfide	ND	5.0							
Methyl-t-Butyl Ether (MTBE)	ND	2.5							
trans-1,2-Dichloroethene	ND	2.5							
1,1-Dichloroethane	ND	2.5							
2-Butanone (MEK)	ND	13							
2,2-Dichloropropane	ND	2.5							
cis-1,2-Dichloroethene	ND	2.5							
Bromochloromethane	ND	2.5							
Chloroform	ND	2.5							
Tetrahydrofuran	ND	13							
1,1,1-Trichloroethane	ND	2.5							
Carbon Tetrachloride	ND	2.5							
1,1-Dichloropropene	ND	2.5							
Benzene	ND	2.5							
1,2-Dichloroethane	ND	2.5							
Trichloroethene	ND	2.5							
1,2-Dichloropropane	ND	2.5							
Dibromomethane	ND	2.5							
Bromodichloromethane	ND	2.5							
Methyl Isobutyl Ketone	ND	13							
cis-1,3-Dichloropropene	ND	2.5							
Toluene	ND	2.5							
trans-1,3-Dichloropropene	ND	2.5							
2-Hexanone	ND	13							
1,1,2-Trichloroethane	ND	2.5							
Tetrachloroethene	ND	2.5							
1,3-Dichloropropane	ND	2.5							
Dibromochloromethane	ND	2.5							
1,2-Dibromoethane	ND	2.5							
trans-1,4-Dichloro-2-Butene	ND	13							
Chlorobenzene	ND	2.5							
1,1,1,2-Tetrachloroethane	ND	2.5							
Ethylbenzene	ND	2.5							
m+p Xylenes	ND	2.5							
o-Xylene	ND	2.5							
Styrene	ND	2.5							
Bromoform	ND	2.5							
Isopropylbenzene	ND	2.5							
1,1,2,2-Tetrachloroethane	ND	2.5							
Bromobenzene	ND	2.5							

CET #:9010461

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9A2834-BLK1) - Continued</b>					Prepared: 1/28/2019 Analyzed: 1/28/2019				
1,2,3-Trichloropropane	ND	2.5							
n-Propylbenzene	ND	2.5							
2-Chlorotoluene	ND	2.5							
4-Chlorotoluene	ND	2.5							
1,3,5-Trimethylbenzene	ND	2.5							
tert-Butylbenzene	ND	2.5							
1,2,4-Trimethylbenzene	ND	2.5							
sec-Butylbenzene	ND	2.5							
1,3-Dichlorobenzene	ND	2.5							
4-Isopropyltoluene	ND	2.5							
1,4-Dichlorobenzene	ND	2.5							
1,2-Dichlorobenzene	ND	2.5							
n-Butylbenzene	ND	2.5							
1,2-Dibromo-3-Chloropropane	ND	2.5							
1,2,4-Trichlorobenzene	ND	2.5							
Hexachlorobutadiene	ND	2.5							
Naphthalene	ND	5.0							
1,2,3-Trichlorobenzene	ND	5.0							

Surrogate: 1,2-Dichloroethane-d4

104 70 - 130

Surrogate: Toluene-d8

100 70 - 130

Surrogate: 4-Bromofluorobenzene

89.0 70 - 130

**LCS (B9A2834-BS1)**

Prepared: 1/28/2019 Analyzed: 1/28/2019

Dichlorodifluoromethane	48.6	7.5	50.000		97.2	70 - 130			
Chloromethane	45.1	5.0	50.000		90.3	70 - 130			
Vinyl Chloride	42.7	2.5	50.000		85.4	70 - 130			
Bromomethane	52.6	5.0	50.000		105	70 - 130			
Chloroethane	53.8	5.0	50.000		108	70 - 130			
Trichlorofluoromethane	44.5	20	50.000		89.0	70 - 130			
Acetone	97.4	75	100.000		97.4	70 - 130			
Acrylonitrile	49.2	4.0	50.000		98.5	70 - 130			
Trichlorotrifluoroethane	47.5	20	50.000		94.9	70 - 130			
1,1-Dichloroethene	43.3	2.5	50.000		86.5	70 - 130			
Methylene Chloride	46.7	30	50.000		93.5	70 - 130			
Carbon Disulfide	46.9	5.0	50.000		93.9	70 - 130			
Methyl-t-Butyl Ether (MTBE)	46.2	2.5	50.000		92.5	70 - 130			
trans-1,2-Dichloroethene	46.2	2.5	50.000		92.4	70 - 130			
1,1-Dichloroethane	46.1	2.5	50.000		92.2	70 - 130			
2-Butanone (MEK)	101	13	100.000		101	70 - 130			
2,2-Dichloropropane	46.6	2.5	50.000		93.3	70 - 130			
cis-1,2-Dichloroethene	47.0	2.5	50.000		94.1	70 - 130			
Bromochloromethane	48.3	2.5	50.000		96.6	70 - 130			
Chloroform	44.2	2.5	50.000		88.4	70 - 130			
Tetrahydrofuran	49.8	13	50.000		99.7	70 - 130			
1,1,1-Trichloroethane	45.6	2.5	50.000		91.1	70 - 130			
Carbon Tetrachloride	44.8	2.5	50.000		89.5	70 - 130			
1,1-Dichloropropene	45.4	2.5	50.000		90.8	70 - 130			
Benzene	46.1	2.5	50.000		92.2	70 - 130			
1,2-Dichloroethane	49.4	2.5	50.000		98.8	70 - 130			
Trichloroethene	46.7	2.5	50.000		93.3	70 - 130			
1,2-Dichloropropane	49.1	2.5	50.000		98.2	70 - 130			
Dibromomethane	49.7	2.5	50.000		99.3	70 - 130			
Bromodichloromethane	49.3	2.5	50.000		98.6	70 - 130			

Complete Environmental Testing, Inc.

80 Lupes Drive, Stratford, CT 06615 • Tel: 203-377-9984 • Fax: 203-377-9952 • www.cetlabs.com

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CET #:9010461

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

Analyte	Result (ug/kg)	RL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>LCS (B9A2834-BS1) - Continued</b>					Prepared: 1/28/2019 Analyzed: 1/28/2019				
Methyl Isobutyl Ketone	105	13	100.000		105	70 - 130			
cis-1,3-Dichloropropene	49.8	2.5	50.000		99.5	70 - 130			
Toluene	47.4	2.5	50.000		94.8	70 - 130			
trans-1,3-Dichloropropene	50.2	2.5	50.000		100	70 - 130			
2-Hexanone	105	13	100.000		105	70 - 130			
1,1,2-Trichloroethane	50.9	2.5	50.000		102	70 - 130			
Tetrachloroethene	47.9	2.5	50.000		95.7	70 - 130			
1,3-Dichloropropane	50.4	2.5	50.000		101	70 - 130			
Dibromochloromethane	51.4	2.5	50.000		103	70 - 130			
1,2-Dibromoethane	51.2	2.5	50.000		102	70 - 130			
trans-1,4-Dichloro-2-Butene	51.9	13	50.000		104	70 - 130			
Chlorobenzene	49.7	2.5	50.000		99.3	70 - 130			
1,1,1,2-Tetrachloroethane	50.6	2.5	50.000		101	70 - 130			
Ethylbenzene	49.5	2.5	50.000		98.9	70 - 130			
m+p Xylenes	102	2.5	100.000		102	70 - 130			
o-Xylene	50.4	2.5	50.000		101	70 - 130			
Styrene	52.0	2.5	50.000		104	70 - 130			
Bromoform	51.8	2.5	50.000		104	70 - 130			
Isopropylbenzene	50.4	2.5	50.000		101	70 - 130			
1,1,2,2-Tetrachloroethane	51.5	2.5	50.000		103	70 - 130			
Bromobenzene	50.3	2.5	50.000		101	70 - 130			
1,2,3-Trichloropropane	50.2	2.5	50.000		100	70 - 130			
n-Propylbenzene	49.8	2.5	50.000		99.7	70 - 130			
2-Chlorotoluene	49.9	2.5	50.000		99.7	70 - 130			
4-Chlorotoluene	50.3	2.5	50.000		101	70 - 130			
1,3,5-Trimethylbenzene	50.4	2.5	50.000		101	70 - 130			
tert-Butylbenzene	49.0	2.5	50.000		97.9	70 - 130			
1,2,4-Trimethylbenzene	50.7	2.5	50.000		101	70 - 130			
sec-Butylbenzene	49.0	2.5	50.000		98.0	70 - 130			
1,3-Dichlorobenzene	50.4	2.5	50.000		101	70 - 130			
4-Isopropyltoluene	49.3	2.5	50.000		98.6	70 - 130			
1,4-Dichlorobenzene	50.5	2.5	50.000		101	70 - 130			
1,2-Dichlorobenzene	50.8	2.5	50.000		102	70 - 130			
n-Butylbenzene	49.4	2.5	50.000		98.7	70 - 130			
1,2-Dibromo-3-Chloropropane	49.9	2.5	50.000		99.7	70 - 130			
1,2,4-Trichlorobenzene	51.0	2.5	50.000		102	70 - 130			
Hexachlorobutadiene	41.8	2.5	50.000		83.5	70 - 130			
Naphthalene	53.8	5.0	50.000		108	70 - 130			
1,2,3-Trichlorobenzene	50.7	5.0	50.000		101	70 - 130			
Surrogate: 1,2-Dichloroethane-d4					97.7	70 - 130			
Surrogate: Toluene-d8					100	70 - 130			
Surrogate: 4-Bromofluorobenzene					101	70 - 130			

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

Sincerely,

This technical report was reviewed by Timothy Fusco



David Ditta  
Laboratory Director



Project Manager

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- \*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- \*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- \*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- \*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- \*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit  
RL is the Reporting Limit  
All analyses were performed in house unless a Reference Laboratory is listed.  
Samples will be disposed of 30 days after the report date.



80 Lupes Drive  
Stratford, CT 06615

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

### Quality Control Definitions and Abbreviations

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

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



Connecticut Laboratory Certification PH0116  
Massachusetts Laboratory Certification M-CT903

New York NELAP Accreditation 11982  
Rhode Island Certification 199



## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

**Client:** Arcadis, Sandy Hook CT

**Project Location:** Mallory Hat Factory, Danbury

**Project Number:** HT212711.0000.00001

**Laboratory Sample ID(s):**  
9010461-01 thru 9010461-07

**Sample Date(s):**  
01/17/2019

**List RCP Methods Used:**

**CET #:** 9010461

CT-ETPH, EPA 6010C, EPA 7471B, EPA 8260C

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

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

This form may not be altered and all questions must be answered.

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

**Authorized Signature:**

**Position:** Laboratory Director

**Printed Name:** David Ditta

**Date:** 01/29/2019

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

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

## RCP Case Narrative

4- See Exceptions Report Below

6- Client requested a subset of the RCP metals list.

### 4- Exceptions Report

Analyte	QC Type	Exception	Result	RPD	Recovery (%)	Batch/Sequence Sample ID
Mercury	DUP	>RPD		25.8		9010461-02
Dichlorodifluoromethane	ICV	Analyte exceeds method limit of second source standard. Non-directional bias				
Hexachlorobutadiene	ICV	Analyte exceeds method limit of second source standard. Non-directional bias				
Tetrachloroethene	ICV	Analyte exceeds method limit of second source standard. Non-directional bias				

### QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B9A2301	S9A2503	9010461-05	MW-6 0-2ft	CT-ETPH	Soil	01/17/2019
B9A2301	S9A2405	9010461-06	MW-6 5-7ft	CT-ETPH	Soil	01/17/2019
B9A2301	S9A2405	9010461-07	MW-6 10-12ft	CT-ETPH	Soil	01/17/2019
B9A2217	S9A2209	9010461-05	MW-6 0-2ft	EPA 6010C	Soil	01/17/2019
B9A2217	S9A2209	9010461-06	MW-6 5-7ft	EPA 6010C	Soil	01/17/2019
B9A2217	S9A2209	9010461-07	MW-6 10-12ft	EPA 6010C	Soil	01/17/2019
B9A1804		9010461-02	MW-5 0-2ft	EPA 7471B	Soil	01/17/2019
B9A1804		9010461-03	MW-5 5-7ft	EPA 7471B	Soil	01/17/2019
B9A1804		9010461-04	MW-5 10-12ft	EPA 7471B	Soil	01/17/2019
B9A1804		9010461-05	MW-6 0-2ft	EPA 7471B	Soil	01/17/2019
B9A1804		9010461-06	MW-6 5-7ft	EPA 7471B	Soil	01/17/2019
B9A1804		9010461-07	MW-6 10-12ft	EPA 7471B	Soil	01/17/2019
B9A2834	S9A2905	9010461-01	MW-1 0-2ft	EPA 8260C	Soil	01/17/2019



CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<b><i>CT-ETPH in Soil</i></b>	
ETPH	CT
<b><i>EPA 6010C in Soil</i></b>	
Lead	CT,NY,PA
Arsenic	CT,NY,PA
<b><i>EPA 7471B in Soil</i></b>	
Mercury	CT,NY,PA
<b><i>EPA 8260C in Soil</i></b>	
Dichlorodifluoromethane	CT,NY,PA
Chloromethane	CT,NY,PA
Vinyl Chloride	CT,NY,PA
Bromomethane	CT,NY,PA
Chloroethane	CT,NY,PA
Trichlorofluoromethane	CT,NY,PA
Acetone	CT,NY,PA
Acrylonitrile	CT
Trichlorotrifluoroethane	CT,NY,PA
1,1-Dichloroethene	CT,NY,PA
Methylene Chloride	CT,NY,PA
Carbon Disulfide	CT,NY,PA
Methyl-t-Butyl Ether (MTBE)	CT,NY,PA
trans-1,2-Dichloroethene	CT,NY,PA
1,1-Dichloroethane	CT,NY,PA
2-Butanone (MEK)	CT,NY,PA
2,2-Dichloropropane	CT,NY,PA
cis-1,2-Dichloroethene	CT,NY,PA
Bromochloromethane	CT,NY,PA
Chloroform	CT,NY,PA
Tetrahydrofuran	CT
1,1,1-Trichloroethane	CT,NY,PA
Carbon Tetrachloride	CT,NY,PA
1,1-Dichloropropene	CT,NY,PA
Benzene	CT,NY,PA
1,2-Dichloroethane	CT,NY,PA
Trichloroethene	CT,NY,PA
1,2-Dichloropropane	CT,NY,PA
Dibromomethane	CT,NY,PA
Bromodichloromethane	CT,NY,PA
Methyl Isobutyl Ketone	CT,NY,PA
cis-1,3-Dichloropropene	CT,NY,PA
Toluene	CT,NY,PA
trans-1,3-Dichloropropene	CT,NY,PA
2-Hexanone	CT,NY,PA
1,1,2-Trichloroethane	CT,NY,PA
Tetrachloroethene	CT,NY,PA
1,3-Dichloropropane	CT,NY,PA
Dibromochloromethane	CT,NY,PA

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<b><i>EPA 8260C in Soil</i></b>	
1,2-Dibromoethane	CT,NY,PA
trans-1,4-Dichloro-2-Butene	CT,NY,PA
Chlorobenzene	CT,NY,PA
1,1,1,2-Tetrachloroethane	CT,NY,PA
Ethylbenzene	CT,NY,PA
m+p Xylenes	CT,NY,PA
o-Xylene	CT,NY,PA
Styrene	CT,NY,PA
Bromoform	CT,NY,PA
Isopropylbenzene	CT,NY,PA
1,1,2,2-Tetrachloroethane	CT,NY,PA
Bromobenzene	CT,NY,PA
1,2,3-Trichloropropane	CT,NY,PA
n-Propylbenzene	CT,NY,PA
2-Chlorotoluene	CT,NY,PA
4-Chlorotoluene	CT,NY,PA
1,3,5-Trimethylbenzene	CT,NY,PA
tert-Butylbenzene	CT,NY,PA
1,2,4-Trimethylbenzene	CT,NY,PA
sec-Butylbenzene	CT,NY,PA
1,3-Dichlorobenzene	CT,NY,PA
4-Isopropyltoluene	CT,NY,PA
1,4-Dichlorobenzene	CT,NY,PA
1,2-Dichlorobenzene	CT,NY,PA
n-Butylbenzene	CT,NY,PA
1,2-Dibromo-3-Chloropropane	CT,NY,PA
1,2,4-Trichlorobenzene	CT,NY,PA
Hexachlorobutadiene	CT,NY,PA
Naphthalene	CT,NY,PA
1,2,3-Trichlorobenzene	CT
<b><i>SM 2540 G in Soil</i></b>	
Percent Solids	CT

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2020
NY	New York Certification (NELAC)	11982	04/01/2019
PA	Pennsylvania DEP	68-02927	05/31/2019



Client: Ms. Meghan Shanahan  
Arcadis, Inc.  
75 Glen Road, Ste 305  
Sandy Hook, CT 06482

# Analytical Report

## CET# 9010645



Report Date: January 31, 2019  
Project: Mallory Hat Factory, Danbury  
Project Number: HT212711.0000.00001

Connecticut Laboratory Certificate: PH 0116  
Massachusetts Laboratory Certificate: M-CT903  
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982  
Pennsylvania Certificate: 68-02927

CET #:9010645

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**SAMPLE SUMMARY**

The sample(s) were received at 2.4°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
MW-1	9010645-01	Water	1/25/2019 11:55	01/28/2019
MW-4	9010645-02	Water	1/25/2019 12:35	01/28/2019
MW-5	9010645-03	Water	1/25/2019 10:35	01/28/2019
MW-6	9010645-04	Water	1/25/2019 10:20	01/28/2019
Trip Blank	9010645-05	Water	1/25/2019	01/28/2019

CET #:9010645

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Analyte: Mercury [EPA 245.2]**

**Analyst: SFJ**

**Matrix: Water**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9010645-01	MW-1	ND	0.00020	mg/L	1	B9A2901	01/29/2019	01/29/2019 10:22	
9010645-02	MW-4	ND	0.00020	mg/L	1	B9A2901	01/29/2019	01/29/2019 10:30	
9010645-03	MW-5	0.0015	0.00020	mg/L	1	B9A2901	01/29/2019	01/29/2019 10:33	
9010645-04	MW-6	ND	0.00020	mg/L	1	B9A2901	01/29/2019	01/29/2019 10:35	

**Analyte: Total Lead [EPA 200.7]**

**Analyst: SS**

**Matrix: Water**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9010645-01	MW-1	ND	0.013	mg/L	1	B9A2935	01/29/2019	01/29/2019 19:23	
9010645-02	MW-4	ND	0.013	mg/L	1	B9A2935	01/29/2019	01/29/2019 19:28	
9010645-03	MW-5	ND	0.013	mg/L	1	B9A2935	01/29/2019	01/29/2019 19:32	
9010645-04	MW-6	ND	0.013	mg/L	1	B9A2935	01/29/2019	01/30/2019 15:50	

**Analyte: Total Arsenic [EPA 200.7]**

**Analyst: SS**

**Matrix: Water**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9010645-01	MW-1	ND	0.0040	mg/L	1	B9A2935	01/29/2019	01/29/2019 19:23	
9010645-02	MW-4	ND	0.0040	mg/L	1	B9A2935	01/29/2019	01/29/2019 19:28	
9010645-03	MW-5	ND	0.0040	mg/L	1	B9A2935	01/29/2019	01/29/2019 19:32	
9010645-04	MW-6	ND	0.0040	mg/L	1	B9A2935	01/29/2019	01/30/2019 15:50	

CET #:9010645

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID MW-1

Lab ID: 9010645-01

## Conn. Extractable TPH

Method: CT-ETPH

Analyst: KER

Matrix: Water

Analyte	Result (mg/L)	RL (mg/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	0.10	1	EPA 3510C	B9A2909	01/29/2019	01/30/2019 16:44	
<i>Surrogate: Octacosane</i>	<i>126 %</i>	<i>50 - 150</i>			B9A2909	01/29/2019	<i>01/30/2019 16:44</i>	

## Volatile Organics

Method: EPA 8260C

Analyst: TWF

Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
1,1,1-Trichloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
1,1,2,2-Tetrachloroethane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
1,1,2-Trichloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
1,1-Dichloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
1,1-Dichloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	*I
1,1-Dichloropropene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
1,2,3-Trichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
1,2,3-Trichloropropane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
1,2,4-Trichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
1,2,4-Trimethylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
1,2-Dibromo-3-Chloropropane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
1,2-Dibromoethane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
1,2-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
1,2-Dichloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
1,2-Dichloropropane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
1,3,5-Trimethylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
1,3-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
1,3-Dichloropropane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
1,4-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
2,2-Dichloropropane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
2-Butanone (MEK)	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	*I
2-Chlorotoluene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
2-Hexanone	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
4-Chlorotoluene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
4-Isopropyltoluene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Acetone	ND	50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	*I
Acrylonitrile	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	

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CET #:9010645

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID MW-1

Lab ID: 9010645-01

**Volatile Organics**  
**Method: EPA 8260C**

Analyst: TWF

Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Bromobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Bromochloromethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Bromodichloromethane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Bromoform	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Bromomethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Carbon Disulfide	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	*F2*C2*I
Carbon Tetrachloride	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Chlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Chloroethane	ND	5.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Chloroform	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Chloromethane	ND	2.7	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
cis-1,2-Dichloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
cis-1,3-Dichloropropene	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Dibromochloromethane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Dibromomethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Dichlorodifluoromethane	ND	10	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	*I
Ethylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Hexachlorobutadiene	ND	0.45	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Isopropylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
m+p Xylenes	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Methyl Isobutyl Ketone	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Methylene Chloride	ND	5.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Naphthalene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
n-Butylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
n-Propylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
o-Xylene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
sec-Butylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Styrene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
tert-Butylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Tetrachloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Tetrahydrofuran	ND	5.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Toluene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
trans-1,2-Dichloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
trans-1,3-Dichloropropene	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	

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CET #:9010645

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Client Sample ID MW-1**

**Lab ID: 9010645-01**

**Volatile Organics**

**Method: EPA 8260C**

**Analyst: TWF**

**Matrix: Water**

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
trans-1,4-Dichloro-2-Butene	ND	10	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Trichloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Trichlorofluoromethane	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
Trichlorotrifluoroethane	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	*C2
Vinyl Chloride	ND	1.6	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 17:57	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>100 %</i>	<i>70 - 130</i>			B9A3126	01/30/2019	<i>01/30/2019 17:57</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96.2 %</i>	<i>70 - 130</i>			B9A3126	01/30/2019	<i>01/30/2019 17:57</i>	
<i>Surrogate: Toluene-d8</i>	<i>101 %</i>	<i>70 - 130</i>			B9A3126	01/30/2019	<i>01/30/2019 17:57</i>	

CET #:9010645

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID MW-4

Lab ID: 9010645-02

## Conn. Extractable TPH

Method: CT-ETPH

Analyst: KER

Matrix: Water

Analyte	Result (mg/L)	RL (mg/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	0.10	1	EPA 3510C	B9A2909	01/29/2019	01/30/2019 17:07	
<i>Surrogate: Octacosane</i>	<i>133 %</i>	<i>50 - 150</i>			B9A2909	01/29/2019	<i>01/30/2019 17:07</i>	

## Volatile Organics

Method: EPA 8260C

Analyst: TWF

Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
1,1,1-Trichloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
1,1,2,2-Tetrachloroethane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
1,1,2-Trichloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
1,1-Dichloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
1,1-Dichloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	*I
1,1-Dichloropropene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
1,2,3-Trichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
1,2,3-Trichloropropane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
1,2,4-Trichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
1,2,4-Trimethylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
1,2-Dibromo-3-Chloropropane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
1,2-Dibromoethane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
1,2-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
1,2-Dichloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
1,2-Dichloropropane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
1,3,5-Trimethylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
1,3-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
1,3-Dichloropropane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
1,4-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
2,2-Dichloropropane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
2-Butanone (MEK)	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	*I
2-Chlorotoluene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
2-Hexanone	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
4-Chlorotoluene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
4-Isopropyltoluene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Acetone	ND	50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	*I
Acrylonitrile	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	

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CET #:9010645

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID MW-4

Lab ID: 9010645-02

**Volatile Organics**  
**Method: EPA 8260C**

Analyst: TWF

Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Bromobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Bromochloromethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Bromodichloromethane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Bromoform	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Bromomethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Carbon Disulfide	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	*F2*C2*I
Carbon Tetrachloride	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Chlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Chloroethane	ND	5.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Chloroform	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Chloromethane	ND	2.7	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
cis-1,2-Dichloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
cis-1,3-Dichloropropene	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Dibromochloromethane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Dibromomethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Dichlorodifluoromethane	ND	10	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	*I
Ethylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Hexachlorobutadiene	ND	0.45	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Isopropylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
m+p Xylenes	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Methyl Isobutyl Ketone	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Methylene Chloride	ND	5.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Naphthalene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
n-Butylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
n-Propylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
o-Xylene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
sec-Butylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Styrene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
tert-Butylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Tetrachloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Tetrahydrofuran	ND	5.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Toluene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
trans-1,2-Dichloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
trans-1,3-Dichloropropene	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	

CET #:9010645

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Client Sample ID MW-4**

**Lab ID: 9010645-02**

**Volatile Organics**  
**Method: EPA 8260C**

**Analyst: TWF**

**Matrix: Water**

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
trans-1,4-Dichloro-2-Butene	ND	10	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Trichloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Trichlorofluoromethane	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
Trichlorotrifluoroethane	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	*C2
Vinyl Chloride	ND	1.6	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:19	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>103 %</i>	<i>70 - 130</i>			B9A3126	01/30/2019	<i>01/30/2019 18:19</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96.2 %</i>	<i>70 - 130</i>			B9A3126	01/30/2019	<i>01/30/2019 18:19</i>	
<i>Surrogate: Toluene-d8</i>	<i>99.9 %</i>	<i>70 - 130</i>			B9A3126	01/30/2019	<i>01/30/2019 18:19</i>	

CET #:9010645

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID MW-5

Lab ID: 9010645-03

## Conn. Extractable TPH

Method: CT-ETPH

Analyst: KER

Matrix: Water

Analyte	Result (mg/L)	RL (mg/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	0.10	1	EPA 3510C	B9A2909	01/29/2019	01/30/2019 17:30	
<i>Surrogate: Octacosane</i>	<i>137 %</i>	<i>50 - 150</i>			B9A2909	01/29/2019	<i>01/30/2019 17:30</i>	

## Volatile Organics

Method: EPA 8260C

Analyst: TWF

Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
1,1,1-Trichloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
1,1,2,2-Tetrachloroethane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
1,1,2-Trichloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
1,1-Dichloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
1,1-Dichloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	*I
1,1-Dichloropropene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
1,2,3-Trichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
1,2,3-Trichloropropane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
1,2,4-Trichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
1,2,4-Trimethylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
1,2-Dibromo-3-Chloropropane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
1,2-Dibromoethane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
1,2-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
1,2-Dichloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
1,2-Dichloropropane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
1,3,5-Trimethylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
1,3-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
1,3-Dichloropropane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
1,4-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
2,2-Dichloropropane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
2-Butanone (MEK)	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	*I
2-Chlorotoluene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
2-Hexanone	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
4-Chlorotoluene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
4-Isopropyltoluene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Acetone	ND	50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	*I
Acrylonitrile	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	

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CET #:9010645

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID MW-5

Lab ID: 9010645-03

**Volatile Organics**  
**Method: EPA 8260C**

Analyst: TWF

Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Bromobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Bromochloromethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Bromodichloromethane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Bromoform	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Bromomethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Carbon Disulfide	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	*F2*C2*I
Carbon Tetrachloride	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Chlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Chloroethane	ND	5.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Chloroform	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Chloromethane	ND	2.7	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
cis-1,2-Dichloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
cis-1,3-Dichloropropene	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Dibromochloromethane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Dibromomethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Dichlorodifluoromethane	ND	10	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	*I
Ethylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Hexachlorobutadiene	ND	0.45	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Isopropylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
m+p Xylenes	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Methyl Isobutyl Ketone	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Methylene Chloride	ND	5.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Naphthalene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
n-Butylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
n-Propylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
o-Xylene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
sec-Butylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Styrene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
tert-Butylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Tetrachloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Tetrahydrofuran	ND	5.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Toluene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
trans-1,2-Dichloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
trans-1,3-Dichloropropene	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	

CET #:9010645

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Client Sample ID MW-5**

**Lab ID: 9010645-03**

**Volatile Organics**  
**Method: EPA 8260C**

**Analyst: TWF**

**Matrix: Water**

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
trans-1,4-Dichloro-2-Butene	ND	10	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Trichloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Trichlorofluoromethane	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
Trichlorotrifluoroethane	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	*C2
Vinyl Chloride	ND	1.6	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 18:41	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>104 %</i>	<i>70 - 130</i>			B9A3126	01/30/2019	<i>01/30/2019 18:41</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>97.9 %</i>	<i>70 - 130</i>			B9A3126	01/30/2019	<i>01/30/2019 18:41</i>	
<i>Surrogate: Toluene-d8</i>	<i>102 %</i>	<i>70 - 130</i>			B9A3126	01/30/2019	<i>01/30/2019 18:41</i>	



CET #:9010645

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID MW-6

Lab ID: 9010645-04

## Conn. Extractable TPH

Method: CT-ETPH

Analyst: KER

Matrix: Water

Analyte	Result (mg/L)	RL (mg/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	0.10	1	EPA 3510C	B9A2909	01/29/2019	01/30/2019 17:53	
<i>Surrogate: Octacosane</i>	<i>139 %</i>	<i>50 - 150</i>			B9A2909	01/29/2019	<i>01/30/2019 17:53</i>	

## Volatile Organics

Method: EPA 8260C

Analyst: TWF

Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
1,1,1-Trichloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
1,1,2,2-Tetrachloroethane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
1,1,2-Trichloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
1,1-Dichloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
1,1-Dichloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	*I
1,1-Dichloropropene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
1,2,3-Trichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
1,2,3-Trichloropropane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
1,2,4-Trichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
1,2,4-Trimethylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
1,2-Dibromo-3-Chloropropane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
1,2-Dibromoethane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
1,2-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
1,2-Dichloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
1,2-Dichloropropane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
1,3,5-Trimethylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
1,3-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
1,3-Dichloropropane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
1,4-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
2,2-Dichloropropane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
2-Butanone (MEK)	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	*I
2-Chlorotoluene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
2-Hexanone	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
4-Chlorotoluene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
4-Isopropyltoluene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Acetone	ND	50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	*I
Acrylonitrile	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	

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CET #:9010645

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID MW-6

Lab ID: 9010645-04

**Volatile Organics**  
**Method: EPA 8260C**

Analyst: TWF

Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Benzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Bromobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Bromochloromethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Bromodichloromethane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Bromoform	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Bromomethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Carbon Disulfide	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	*F2*C2*I
Carbon Tetrachloride	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Chlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Chloroethane	ND	5.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Chloroform	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Chloromethane	ND	2.7	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
cis-1,2-Dichloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
cis-1,3-Dichloropropene	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Dibromochloromethane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Dibromomethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Dichlorodifluoromethane	ND	10	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	*I
Ethylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Hexachlorobutadiene	ND	0.45	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Isopropylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
m+p Xylenes	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Methyl Isobutyl Ketone	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Methylene Chloride	ND	5.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Naphthalene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
n-Butylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
n-Propylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
o-Xylene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
sec-Butylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Styrene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
tert-Butylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Tetrachloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Tetrahydrofuran	ND	5.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Toluene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
trans-1,2-Dichloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
trans-1,3-Dichloropropene	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	

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CET #:9010645

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Client Sample ID MW-6**

**Lab ID: 9010645-04**

**Volatile Organics**  
**Method: EPA 8260C**

**Analyst: TWF**  
**Matrix: Water**

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
trans-1,4-Dichloro-2-Butene	ND	10	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Trichloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Trichlorofluoromethane	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
Trichlorotrifluoroethane	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	*C2
Vinyl Chloride	ND	1.6	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:03	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>102 %</i>	<i>70 - 130</i>			B9A3126	01/30/2019	<i>01/30/2019 19:03</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.1 %</i>	<i>70 - 130</i>			B9A3126	01/30/2019	<i>01/30/2019 19:03</i>	
<i>Surrogate: Toluene-d8</i>	<i>100 %</i>	<i>70 - 130</i>			B9A3126	01/30/2019	<i>01/30/2019 19:03</i>	

CET #:9010645

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID Trip Blank

Lab ID: 9010645-05

**Volatile Organics**  
**Method: EPA 8260C**

Analyst: TWF

Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
1,1,1-Trichloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
1,1,2,2-Tetrachloroethane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
1,1,2-Trichloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
1,1-Dichloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
1,1-Dichloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	*I
1,1-Dichloropropene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
1,2,3-Trichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
1,2,3-Trichloropropane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
1,2,4-Trichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
1,2,4-Trimethylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
1,2-Dibromo-3-Chloropropane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
1,2-Dibromoethane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
1,2-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
1,2-Dichloroethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
1,2-Dichloropropane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
1,3,5-Trimethylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
1,3-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
1,3-Dichloropropane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
1,4-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
2,2-Dichloropropane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
2-Butanone (MEK)	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	*I
2-Chlorotoluene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
2-Hexanone	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
4-Chlorotoluene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
4-Isopropyltoluene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Acetone	ND	50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	*I
Acrylonitrile	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Benzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Bromobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Bromochloromethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Bromodichloromethane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Bromoform	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Bromomethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Carbon Disulfide	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	*F2*C2*I
Carbon Tetrachloride	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	

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CET #:9010645

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Client Sample ID Trip Blank

Lab ID: 9010645-05

Volatile Organics  
Method: EPA 8260C

Analyst: TWF

Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Chlorobenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Chloroethane	ND	5.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Chloroform	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Chloromethane	ND	2.7	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
cis-1,2-Dichloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
cis-1,3-Dichloropropene	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Dibromochloromethane	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Dibromomethane	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Dichlorodifluoromethane	ND	10	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	*1
Ethylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Hexachlorobutadiene	ND	0.45	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Isopropylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
m+p Xylenes	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Methyl Isobutyl Ketone	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Methylene Chloride	ND	5.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Naphthalene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
n-Butylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
n-Propylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
o-Xylene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
sec-Butylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Styrene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
tert-Butylbenzene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Tetrachloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Tetrahydrofuran	ND	5.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Toluene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
trans-1,2-Dichloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
trans-1,3-Dichloropropene	ND	0.50	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
trans-1,4-Dichloro-2-Butene	ND	10	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Trichloroethene	ND	1.0	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Trichlorofluoromethane	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Trichlorotrifluoroethane	ND	25	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	*C2
Vinyl Chloride	ND	1.6	1	EPA 5030C	B9A3126	01/30/2019	01/30/2019 19:25	
Surrogate: 1,2-Dichloroethane-d4	104 %	70 - 130			B9A3126	01/30/2019	01/30/2019 19:25	
Surrogate: 4-Bromofluorobenzene	97.4 %	70 - 130			B9A3126	01/30/2019	01/30/2019 19:25	
Surrogate: Toluene-d8	102 %	70 - 130			B9A3126	01/30/2019	01/30/2019 19:25	

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CET #:9010645

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

### QUALITY CONTROL SECTION

#### Batch B9A2901 - EPA 245.2

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9A2901-BLK1)</b>									Prepared: 1/29/2019 Analyzed: 1/29/2019
Mercury	ND	0.00020							
<b>LCS (B9A2901-BS1)</b>									Prepared: 1/29/2019 Analyzed: 1/29/2019
Mercury	0.00536	0.00020	0.005		107	85 - 115			
<b>Duplicate (B9A2901-DUP1)</b>									Prepared: 1/29/2019 Analyzed: 1/29/2019
Mercury	ND	0.00020		ND				20	
<b>Duplicate (B9A2901-DUP2)</b>									Prepared: 1/29/2019 Analyzed: 1/29/2019
Mercury	0.00142	0.00020		0.00148			4.14	20	
<b>Matrix Spike (B9A2901-MS1)</b>									Prepared: 1/29/2019 Analyzed: 1/29/2019
Mercury	0.00545	0.00020	0.005	ND	109	70 - 130			
<b>Matrix Spike Dup (B9A2901-MSD1)</b>									Prepared: 1/29/2019 Analyzed: 1/29/2019
Mercury	0.00544	0.00020	0.005	ND	109	70 - 130	0.184	20	

CET #:9010645

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Batch B9A2909 - CT-ETPH**

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9A2909-BLK1)</b>									Prepared: 1/29/2019 Analyzed: 1/30/2019
ETPH	ND	0.10							
<i>Surrogate: Octacosane</i>					128	50 - 150			

CET #:9010645

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Batch B9A2935 - EPA 200.7**

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9A2935-BLK1)</b>					Prepared: 1/29/2019 Analyzed: 1/29/2019				
Lead	ND	0.013							
Arsenic	ND	0.0040							
<b>LCS (B9A2935-BS1)</b>					Prepared: 1/29/2019 Analyzed: 1/29/2019				
Lead	0.204	0.013	0.200		102	85 - 115			
Arsenic	0.198	0.0040	0.200		99.0	85 - 115			



CET #:9010645

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

## Batch B9A3126 - EPA 8260C

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9A3126-BLK1)</b>					Prepared: 1/30/2019 Analyzed: 1/30/2019				
Dichlorodifluoromethane	ND	10							
Chloromethane	ND	2.7							
Vinyl Chloride	ND	1.6							
Bromomethane	ND	1.0							
Chloroethane	ND	5.0							
Trichlorofluoromethane	ND	25							
Acetone	ND	50							
Acrylonitrile	ND	0.50							
Trichlorotrifluoroethane	ND	25							
1,1-Dichloroethene	ND	1.0							
Methylene Chloride	ND	5.0							
Carbon Disulfide	ND	1.0							
Methyl-t-Butyl Ether (MTBE)	ND	5.0							
trans-1,2-Dichloroethene	ND	1.0							
1,1-Dichloroethane	ND	1.0							
2-Butanone (MEK)	ND	25							
2,2-Dichloropropane	ND	1.0							
cis-1,2-Dichloroethene	ND	1.0							
Bromochloromethane	ND	1.0							
Chloroform	ND	1.0							
Tetrahydrofuran	ND	5.0							
1,1,1-Trichloroethane	ND	1.0							
Carbon Tetrachloride	ND	1.0							
1,1-Dichloropropene	ND	1.0							
Benzene	ND	1.0							
1,2-Dichloroethane	ND	1.0							
Trichloroethene	ND	1.0							
1,2-Dichloropropane	ND	1.0							
Dibromomethane	ND	1.0							
Bromodichloromethane	ND	0.50							
Methyl Isobutyl Ketone	ND	25							
cis-1,3-Dichloropropene	ND	0.50							
Toluene	ND	1.0							
trans-1,3-Dichloropropene	ND	0.50							
2-Hexanone	ND	25							
1,1,2-Trichloroethane	ND	1.0							
Tetrachloroethene	ND	1.0							
1,3-Dichloropropane	ND	0.50							
Dibromochloromethane	ND	0.50							
1,2-Dibromoethane	ND	0.50							
trans-1,4-Dichloro-2-Butene	ND	10							
Chlorobenzene	ND	1.0							
1,1,1,2-Tetrachloroethane	ND	1.0							
Ethylbenzene	ND	1.0							
m+p Xylenes	ND	1.0							
o-Xylene	ND	1.0							
Styrene	ND	1.0							
Bromoform	ND	1.0							
Isopropylbenzene	ND	1.0							
1,1,2,2-Tetrachloroethane	ND	0.50							
Bromobenzene	ND	1.0							

CET #:9010645

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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**Blank (B9A3126-BLK1) - Continued**

Prepared: 1/30/2019 Analyzed: 1/30/2019

1,2,3-Trichloropropane	ND	1.0							
n-Propylbenzene	ND	1.0							
2-Chlorotoluene	ND	1.0							
4-Chlorotoluene	ND	1.0							
1,3,5-Trimethylbenzene	ND	1.0							
tert-Butylbenzene	ND	1.0							
1,2,4-Trimethylbenzene	ND	1.0							
sec-Butylbenzene	ND	1.0							
1,3-Dichlorobenzene	ND	1.0							
4-Isopropyltoluene	ND	1.0							
1,4-Dichlorobenzene	ND	1.0							
1,2-Dichlorobenzene	ND	1.0							
n-Butylbenzene	ND	1.0							
1,2-Dibromo-3-Chloropropane	ND	1.0							
1,2,4-Trichlorobenzene	ND	1.0							
Hexachlorobutadiene	ND	0.45							
Naphthalene	ND	1.0							
1,2,3-Trichlorobenzene	ND	1.0							

Surrogate: 1,2-Dichloroethane-d4

99.8 70 - 130

Surrogate: Toluene-d8

99.7 70 - 130

Surrogate: 4-Bromofluorobenzene

98.6 70 - 130

**LCS (B9A3126-BS1)**

Prepared: 1/30/2019 Analyzed: 1/30/2019

Dichlorodifluoromethane	61.4	10	50.000		123	70 - 130			
Chloromethane	52.6	2.7	50.000		105	70 - 130			
Vinyl Chloride	53.5	1.6	50.000		107	70 - 130			
Bromomethane	46.3	1.0	50.000		92.6	70 - 130			
Chloroethane	50.5	5.0	50.000		101	70 - 130			
Trichlorofluoromethane	51.9	25	50.000		104	70 - 130			
Acetone	107	50	100.000		107	70 - 130			
Acrylonitrile	60.0	0.50	50.000		120	70 - 130			
Trichlorotrifluoroethane	63.5	25	50.000		127	70 - 130			
1,1-Dichloroethene	61.9	1.0	50.000		124	70 - 130			
Methylene Chloride	54.0	5.0	50.000		108	70 - 130			
Carbon Disulfide	67.9	1.0	50.000		<b>136</b>	70 - 130			<b>H</b>
Methyl-t-Butyl Ether (MTBE)	51.5	5.0	50.000		103	70 - 130			
trans-1,2-Dichloroethene	54.5	1.0	50.000		109	70 - 130			
1,1-Dichloroethane	53.9	1.0	50.000		108	70 - 130			
2-Butanone (MEK)	108	25	100.000		108	70 - 130			
2,2-Dichloropropane	52.7	1.0	50.000		105	70 - 130			
cis-1,2-Dichloroethene	52.6	1.0	50.000		105	70 - 130			
Bromochloromethane	56.2	1.0	50.000		112	70 - 130			
Chloroform	51.1	1.0	50.000		102	70 - 130			
Tetrahydrofuran	49.0	5.0	50.000		98.0	70 - 130			
1,1,1-Trichloroethane	51.8	1.0	50.000		104	70 - 130			
Carbon Tetrachloride	56.2	1.0	50.000		112	70 - 130			
1,1-Dichloropropene	49.3	1.0	50.000		98.5	70 - 130			
Benzene	48.5	1.0	50.000		97.0	70 - 130			
1,2-Dichloroethane	51.5	1.0	50.000		103	70 - 130			
Trichloroethene	48.6	1.0	50.000		97.1	70 - 130			
1,2-Dichloropropane	51.2	1.0	50.000		102	70 - 130			
Dibromomethane	49.4	1.0	50.000		98.7	70 - 130			
Bromodichloromethane	50.7	0.50	50.000		101	70 - 130			

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CET #:9010645

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>LCS (B9A3126-BS1) - Continued</b>					Prepared: 1/30/2019 Analyzed: 1/30/2019				
Methyl Isobutyl Ketone	102	25	100.000		102	70 - 130			
cis-1,3-Dichloropropene	51.1	0.50	50.000		102	70 - 130			
Toluene	47.5	1.0	50.000		94.9	70 - 130			
trans-1,3-Dichloropropene	50.5	0.50	50.000		101	70 - 130			
2-Hexanone	103	25	100.000		103	70 - 130			
1,1,2-Trichloroethane	49.9	1.0	50.000		99.7	70 - 130			
Tetrachloroethene	45.6	1.0	50.000		91.2	70 - 130			
1,3-Dichloropropane	48.7	0.50	50.000		97.4	70 - 130			
Dibromochloromethane	51.1	0.50	50.000		102	70 - 130			
1,2-Dibromoethane	49.0	0.50	50.000		98.0	70 - 130			
trans-1,4-Dichloro-2-Butene	50.9	10	50.000		102	70 - 130			
Chlorobenzene	48.5	1.0	50.000		97.0	70 - 130			
1,1,1,2-Tetrachloroethane	50.4	1.0	50.000		101	70 - 130			
Ethylbenzene	47.0	1.0	50.000		94.0	70 - 130			
m+p Xylenes	94.0	1.0	100.000		94.0	70 - 130			
o-Xylene	47.6	1.0	50.000		95.1	70 - 130			
Styrene	49.1	1.0	50.000		98.2	70 - 130			
Bromoform	50.8	1.0	50.000		102	70 - 130			
Isopropylbenzene	48.9	1.0	50.000		97.8	70 - 130			
1,1,2,2-Tetrachloroethane	52.2	0.50	50.000		104	70 - 130			
Bromobenzene	50.7	1.0	50.000		101	70 - 130			
1,2,3-Trichloropropane	52.0	1.0	50.000		104	70 - 130			
n-Propylbenzene	50.6	1.0	50.000		101	70 - 130			
2-Chlorotoluene	50.1	1.0	50.000		100	70 - 130			
4-Chlorotoluene	50.5	1.0	50.000		101	70 - 130			
1,3,5-Trimethylbenzene	51.2	1.0	50.000		102	70 - 130			
tert-Butylbenzene	51.2	1.0	50.000		102	70 - 130			
1,2,4-Trimethylbenzene	50.6	1.0	50.000		101	70 - 130			
sec-Butylbenzene	50.9	1.0	50.000		102	70 - 130			
1,3-Dichlorobenzene	50.5	1.0	50.000		101	70 - 130			
4-Isopropyltoluene	52.0	1.0	50.000		104	70 - 130			
1,4-Dichlorobenzene	51.2	1.0	50.000		102	70 - 130			
1,2-Dichlorobenzene	51.5	1.0	50.000		103	70 - 130			
n-Butylbenzene	52.7	1.0	50.000		105	70 - 130			
1,2-Dibromo-3-Chloropropane	56.2	1.0	50.000		112	70 - 130			
1,2,4-Trichlorobenzene	54.4	1.0	50.000		109	70 - 130			
Hexachlorobutadiene	54.0	0.45	50.000		108	70 - 130			
Naphthalene	54.5	1.0	50.000		109	70 - 130			
1,2,3-Trichlorobenzene	54.4	1.0	50.000		109	70 - 130			
Surrogate: 1,2-Dichloroethane-d4					106	70 - 130			
Surrogate: Toluene-d8					102	70 - 130			
Surrogate: 4-Bromofluorobenzene					97.5	70 - 130			

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

Sincerely,

This technical report was reviewed by Robert Blake



David Ditta  
Laboratory Director



Project Manager

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- \*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- \*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- \*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- \*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- \*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

RL is the Reporting Limit

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.



80 Lupes Drive  
Stratford, CT 06615

Tel: (203) 377-9984  
Fax: (203) 377-9952  
email: cct1@cetlabs.com

### Quality Control Definitions and Abbreviations

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

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



Connecticut Laboratory Certification PH0116  
Massachusetts Laboratory Certification M-CT903

New York NELAP Accreditation 11982  
Rhode Island Certification 199



## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

**Client:** Arcadis, Sandy Hook CT

**Project Location:** Mallory Hat Factory, Danbury

**Project Number:** HT212711.0000.00001

**Laboratory Sample ID(s):**  
9010645-01 thru 9010645-05

**Sample Date(s):**  
01/25/2019

**List RCP Methods Used:**  
CT-ETPH, EPA 8260C

**CET #:** 9010645

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

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

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

**Authorized Signature:**

**Position:** Laboratory Director

**Printed Name:** David Ditta

**Date:** 01/31/2019

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

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

## RCP Case Narrative

4- See Exceptions Report Below

6- Client requested a subset of the RCP metals list.

### 4- Exceptions Report

Analyte	QC Type	Exception	Result	RPD	Recovery (%)	Batch/Sequence Sample ID
Carbon Disulfide	LCS	High	67.9		136	B9A3126
Carbon Disulfide	CC	High	63.6		127	S9A3108
Trichlorotrifluoroethane	CC	High	61.4		123	S9A3108
1,1-Dichloroethene	ICV	Analyte exceeds method limit of second source standard. Non-directional bias				
2-Butanone (MEK)	ICV	Analyte exceeds method limit of second source standard. Non-directional bias				
Acetone	ICV	Analyte exceeds method limit of second source standard. Non-directional bias				
Carbon Disulfide	ICV	Analyte exceeds method limit of second source standard. Non-directional bias				
Dichlorodifluoromethane	ICV	Analyte exceeds method limit of second source standard. Non-directional bias				

### QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B9A2909	S9A3004	9010645-01	MW-1	CT-ETPH	Water	01/25/2019
B9A2909	S9A3004	9010645-02	MW-4	CT-ETPH	Water	01/25/2019
B9A2909	S9A3004	9010645-03	MW-5	CT-ETPH	Water	01/25/2019
B9A2909	S9A3004	9010645-04	MW-6	CT-ETPH	Water	01/25/2019
B9A2935	S9A2903	9010645-01	MW-1	EPA 200.7	Water	01/25/2019
B9A2935	S9A2903	9010645-02	MW-4	EPA 200.7	Water	01/25/2019
B9A2935	S9A2903	9010645-03	MW-5	EPA 200.7	Water	01/25/2019
B9A2935	S9A2903	9010645-04	MW-6	EPA 200.7	Water	01/25/2019
B9A2901		9010645-01	MW-1	EPA 245.2	Water	01/25/2019
B9A2901		9010645-02	MW-4	EPA 245.2	Water	01/25/2019
B9A2901		9010645-03	MW-5	EPA 245.2	Water	01/25/2019
B9A2901		9010645-04	MW-6	EPA 245.2	Water	01/25/2019
B9A3126	S9A3108	9010645-01	MW-1	EPA 8260C	Water	01/25/2019
B9A3126	S9A3108	9010645-02	MW-4	EPA 8260C	Water	01/25/2019
B9A3126	S9A3108	9010645-03	MW-5	EPA 8260C	Water	01/25/2019
B9A3126	S9A3108	9010645-04	MW-6	EPA 8260C	Water	01/25/2019
B9A3126	S9A3108	9010645-05	Trip Blank	EPA 8260C	Water	01/25/2019

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<b><i>CT-ETPH in Water</i></b>	
ETPH	CT
<b><i>EPA 200.7 in Water</i></b>	
Lead	CT,MA,RI
Arsenic	CT,MA,RI
<b><i>EPA 245.2 in Water</i></b>	
Mercury	CT,MA,RI
<b><i>EPA 8260C in Water</i></b>	
Dichlorodifluoromethane	CT,NY
Chloromethane	CT,NY
Vinyl Chloride	CT,NY
Bromomethane	CT,NY
Chloroethane	CT,NY
Trichlorofluoromethane	CT,NY
Acetone	CT,NY
Acrylonitrile	CT
Trichlorotrifluoroethane	CT,NY
1,1-Dichloroethene	CT,NY
Methylene Chloride	CT,NY
Carbon Disulfide	CT,NY
Methyl-t-Butyl Ether (MTBE)	CT,NY
trans-1,2-Dichloroethene	CT,NY
1,1-Dichloroethane	CT,NY
2-Butanone (MEK)	CT,NY
2,2-Dichloropropane	CT,NY
cis-1,2-Dichloroethene	CT,NY
Bromochloromethane	CT,NY
Chloroform	CT,NY
Tetrahydrofuran	CT
1,1,1-Trichloroethane	CT,NY
Carbon Tetrachloride	CT,NY
1,1-Dichloropropene	CT,NY
Benzene	CT,NY
1,2-Dichloroethane	CT,NY
Trichloroethene	CT,NY
1,2-Dichloropropane	CT,NY
Dibromomethane	CT,NY
Bromodichloromethane	CT,NY
Methyl Isobutyl Ketone	CT,NY
cis-1,3-Dichloropropene	CT,NY
Toluene	CT,NY
trans-1,3-Dichloropropene	CT,NY
2-Hexanone	CT,NY
1,1,2-Trichloroethane	CT,NY
Tetrachloroethene	CT,NY
1,3-Dichloropropane	CT,NY
Dibromochloromethane	CT,NY



**CERTIFICATIONS**

**Certified Analyses included in this Report**

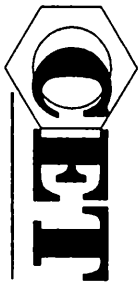
<b>Analyte</b>	<b>Certifications</b>
<i>EPA 8260C in Water</i>	
1,2-Dibromoethane	CT,NY
trans-1,4-Dichloro-2-Butene	CT,NY
Chlorobenzene	CT,NY
1,1,1,2-Tetrachloroethane	CT,NY
Ethylbenzene	CT,NY
m+p Xylenes	CT,NY
o-Xylene	CT,NY
Styrene	CT,NY
Bromoform	CT,NY
Isopropylbenzene	CT,NY
1,1,2,2-Tetrachloroethane	CT,NY
Bromobenzene	CT,NY
1,2,3-Trichloropropane	CT,NY
n-Propylbenzene	CT,NY
2-Chlorotoluene	CT,NY
4-Chlorotoluene	CT,NY
1,3,5-Trimethylbenzene	CT,NY
tert-Butylbenzene	CT,NY
1,2,4-Trimethylbenzene	CT,NY
sec-Butylbenzene	CT,NY
1,3-Dichlorobenzene	CT,NY
4-Isopropyltoluene	CT,NY
1,4-Dichlorobenzene	CT,NY
1,2-Dichlorobenzene	CT,NY
n-Butylbenzene	CT,NY
1,2-Dibromo-3-Chloropropane	CT,NY
1,2,4-Trichlorobenzene	CT,NY
Hexachlorobutadiene	CT,NY
Naphthalene	CT,NY
1,2,3-Trichlorobenzene	CT,NY

Complete Environmental Testing operates under the following certifications and accreditations:

<b>Code</b>	<b>Description</b>	<b>Number</b>	<b>Expires</b>
CT	Connecticut Public Health	PH0116	09/30/2020
MA	Massachusetts Laboratory Certification	M-CT903	06/30/2019
NY	New York Certification (NELAC)	11982	04/01/2019
RI	Rhode Island Certification	LAO 00227	12/30/2019



9010645



COMPLETE ENVIRONMENTAL TESTING, INC.

# CHAIN OF CUSTODY

Volatiles Soils Only:

Date and Time in Freezer

Client:

CET:

Additional Analysis

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

### Sample ID/Sample Depths

(include Units for any sample depths provided)

### Collection Date/Time

### Matrix

### Turnaround Time \*\*

(check one)

8260 CT List	
8260 Aromatics	
8260 Halogens	
CT ETPH	
8270 CT List	
8270 PNAs	
PCBs <input type="checkbox"/> SOX <input type="checkbox"/> ASE	
Pesticides	
8 RCRA	
13 Priority Poll	
15 CT DEP	
Total <u>Hg, As, Pb</u>	
SPLP	
TCLP	
Dissolved	
Field Filtered	
Lab to Filter	

TOTAL # OF CONT.	
NOTE #	

Sample ID	Collection Date/Time	Matrix	Turnaround Time	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs	SOX	ASE	Pesticides	8 RCRA	13 Priority Poll	15 CT DEP	Total	SPLP	TCLP	Dissolved	Field Filtered	Lab to Filter	TOTAL # OF CONT.	NOTE #
MU-1	1/25/19	W		X			X										X						4	
MU-4		W		X			X										X						4	
MU-5		W		X			X										X						4	
MU-6		W		X			X										X						4	
TRP Blank		W		X																			2	

PRESERVATIVE (Cl-HCl, N-HNO<sub>3</sub>, S-H<sub>2</sub>SO<sub>4</sub>, Na-NaOH, C=Cool, O-Other)  
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)  
Soil VOCs Only (M=MeOH B=Bisulfate Empty W=Water F=Via E=Encore)

RELINQUISHED BY: [Signature] DATE/TIME: 1/25/19 RECEIVED BY: [Signature]  
 RELINQUISHED BY: [Signature] DATE/TIME: 1/31/19 RECEIVED BY: [Signature]  
 RELINQUISHED BY: [Signature] DATE/TIME: 1/31/19 RECEIVED BY: [Signature]

### Client / Reporting Information

Company Name: Arcadis  
Address: 75 Gen Rd  
City: Sandy Hook CT State: CT Zip: 06482

Report to: [Signature] E-mail: [Signature]  
Phone #: 203-768-1814 Fax #: [Signature]

### Project Information

Project: Volking Hot Factory PO #: HT212711.0000.22001  
Location: Danbury, CT Collector(s): MS, AR

QA/QC:  Std  Site Specific (MS/MSD) \*  RCP Pkg \*  DQAW \*  
Data Report:  PDF  EDD - Specify Format  Other  
RSR Reporting Limits (check one)  GA  GB  SWP  Other

Laboratory Certification Needed (check one)  CT  NY  RI  MA  
Temp Upon Receipt: 24 °C Evidence of Cooling:  Y  N  
PAGE 1 OF 1

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes. REV 10/16



Client: Mr. Paul Natoli  
Arcadis, Inc.  
75 Glen Road, Ste 305  
Sandy Hook, CT 06482

# Analytical Report

## CET# 9010704R

Report Date: February 01, 2019  
Project: Mallory Hat Factory, Danbury  
Project Number: HT212711.0000.00001

Connecticut Laboratory Certificate: PH 0116  
Massachusetts Laboratory Certificate: M-CT903  
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982  
Pennsylvania Laboratory Certificate: 68-02927

CET #: 9010704

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**SAMPLE SUMMARY**

The sample(s) were received at 1.9°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
BLD-2 6ft	9010704-01	Soil	1/16/2019 13:55	01/30/2019
FB-1 4ft	9010704-02	Soil	1/16/2019 10:30	01/30/2019
RG-1 6ft	9010704-03	Soil	1/16/2019 13:00	01/30/2019
MHS-3S1 6ft	9010704-04	Soil	1/16/2019 13:20	01/30/2019

**Analyte: Percent Solids [SM 2540 G]**

**Analyst: SFJ**

**Matrix: Soil**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9010704-01	BLD-2 6ft	79	1.0	%	1	B9A3114	01/31/2019	01/31/2019 13:35	
9010704-02	FB-1 4ft	83	1.0	%	1	B9A3114	01/31/2019	01/31/2019 13:35	
9010704-03	RG-1 6ft	87	1.0	%	1	B9A3114	01/31/2019	01/31/2019 13:35	
9010704-04	MHS-3S1 6ft	75	1.0	%	1	B9A3112	01/31/2019	01/31/2019 13:07	

**Analyte: Mercury [EPA 7471B]**

**Analyst: SFJ**

**Matrix: Soil**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9010704-01	BLD-2 6ft	65	3.0	mg/kg dry	20	B9A3101	01/31/2019	01/31/2019 12:57	
9010704-02	FB-1 4ft	74	2.9	mg/kg dry	20	B9A3101	01/31/2019	01/31/2019 12:59	
9010704-03	RG-1 6ft	ND	0.14	mg/kg dry	1	B9A3101	01/31/2019	01/31/2019 10:48	
9010704-04	MHS-3S1 6ft	7.6	0.33	mg/kg dry	2	B9A3101	01/31/2019	01/31/2019 10:50	

CET #: 9010704

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

### QUALITY CONTROL SECTION

#### Batch B9A3101 - EPA 7471B

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9A3101-BLK1)</b>									
							Prepared: 1/31/2019	Analyzed: 1/31/2019	
Mercury	ND	0.13							
<b>LCS (B9A3101-BS1)</b>									
							Prepared: 1/31/2019	Analyzed: 1/31/2019	
Mercury	2.42	0.13	2.500		96.8	80 - 120			
<b>Duplicate (B9A3101-DUP1)</b>									
							Prepared: 1/31/2019	Analyzed: 1/31/2019	
Mercury	85.6	2.9		73.6			15.2	20	
<b>Matrix Spike (B9A3101-MS1)</b>									
							Prepared: 1/31/2019	Analyzed: 1/31/2019	
Mercury	#	2.9	2.874	73.6	#	75 - 125			#
<b>Matrix Spike Dup (B9A3101-MSD1)</b>									
							Prepared: 1/31/2019	Analyzed: 1/31/2019	
Mercury	#	2.9	2.874	73.6	#	75 - 125	#	20	#

CET # : 9010704

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Batch B9A3114 - SM 2540 G**

Analyte	Result (%)	RL (%)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	------------	--------	-------------	---------------	-------	--------------	-----	-----------	-------

**Duplicate (B9A3114-DUP1)**

**Source: 9010704-01**

Prepared: 1/31/2019 Analyzed: 1/31/2019

Percent Solids	79	1.0		79			0.750	5	
----------------	----	-----	--	----	--	--	-------	---	--

**CASE NARRATIVE**

Revision: Original report dated (2/1/2019); Sample 9010704-04 ID changed from MHS-351 to MHS-3S1 per client request.

CET #: 9010704

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001


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

Sincerely,

This technical report was reviewed by Timothy Fusco



David Ditta  
Laboratory Director



Project Manager

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- \*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- \*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- \*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- \*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- \*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

RL is the Reporting Limit

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.



80 Lupes Drive  
Stratford, CT 06615

Tel: (203) 377-9984  
Fax: (203) 377-9952  
email: cct1@cetlabs.com

### Quality Control Definitions and Abbreviations

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

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



Connecticut Laboratory Certification PH0116  
Massachusetts Laboratory Certification M-CT903

New York NELAP Accreditation 11982  
Rhode Island Certification 199





## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

**Client:** Arcadis, Sandy Hook CT

**Project Location:** Mallory Hat Factory, Danbury

**Project Number:** HT212711.0000.00001

**Laboratory Sample ID(s):**  
9010704-01 thru 9010704-04

**Sample Date(s):**  
01/16/2019

**List RCP Methods Used:**  
EPA 7471B

**CET #:** 9010704

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

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

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

**Authorized Signature:**

**Position:** Laboratory Director

**Printed Name:** David Ditta

**Date:** 01/31/2019

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

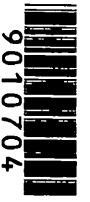
**This certification form is to be used for RCP methods only.**

4- Exceptions Report

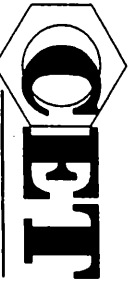
Analyte	QC Type	Exception	Result	RPD	Recovery (%)	Batch/Sequence Sample ID
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QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B9A3101		9010704-01	BLD-2 6ft	EPA 7471B	Soil	01/16/2019
B9A3101		9010704-02	FB-1 4ft	EPA 7471B	Soil	01/16/2019
B9A3101		9010704-03	RG-1 6ft	EPA 7471B	Soil	01/16/2019
B9A3101		9010704-04	MHS-3S1 6ft	EPA 7471B	Soil	01/16/2019



9010704



COMPLETE ENVIRONMENTAL TESTING, INC.

# CHAIN OF CUSTODY

Volatile Soils Only:  
Date and Time in Freezer

Client:  
CET:

Additional Analysis

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

Sample ID/Sample Depths (include Units for any sample depths provided)	Collection Date/Time	Matrix A-Air S-Soil W-Water DW-Drinking Water C-Caseside Solid Wipe Other (Specify)	Turnaround Time ** (check one)				
			Same Day *	Next Day *	Two Day *	Three Day *	Std (5-7 Days)

BOD-2 (6')	1/16/19 1:55	S					X	
FB-1 (4')	1/16/19 10:30	S					X	
RS-1 (6')	1/16/19 1:00	S					X	
MMS-351 (6')	1/16/19 1:20	S					X	

8260 CT List		
8260 Aromatics		
8260 Halogens		
CT ETPH		
8270 CT List		
8270 PNAs		
PCBs <input type="checkbox"/> SOX <input type="checkbox"/> ASE		
Pesticides		
8 RCRA		
13 Priority Poll		
15 CT DEP		
Total	NG	
SPLP		
TCLP		
Dissolved		
Field Filtered		
Lab to Filter		
TOTAL # OF CONT.		4

PRESERVATIVE (Cl-HCl, N-HNO<sub>3</sub>, S-H<sub>2</sub>SO<sub>4</sub>, Na-NaOH, C-Cool, O-Other)

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

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

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME
[Signature]	1/30/19 12:00	[Signature]	1/31/19
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME
[Signature]	1/30/19 12:45	[Signature]	1/30/19
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME

NOTES:

### Client / Reporting Information

Company Name: ARCADIS  
 Address: 75 GLEN ROAD SUITE 305  
 City: Savoy State: CT Zip: 06482  
 Report To: Paul Pardo E-mail: Paul.Pardo@arcadis.com  
 Phone #: 203-514-4515 Fax: \_\_\_\_\_

### Project Information

Project: MUNICIPAL NOT FORESTRY PO #: \_\_\_\_\_  
 Location: Darby Project #: HT22711.0000.0001  
 CET Quote #: \_\_\_\_\_ Collector(s): MS/PS  
 QA/QC:  Std  Site Specific (MS/MSD) \*  RCP Pkg \*  DQAW \*  
 Data Report:  PDF  EDD - Specify Format \_\_\_\_\_ Other \_\_\_\_\_  
 RSR Reporting Limits (check one)  GA  GB  SWP  Other \_\_\_\_\_  
 Laboratory Certification Needed (check one)  CT  NY  RI  MA  
 Temp Upon Receipt: 1.9 °C Evidence of Cooling:  Y  N PAGE 1 OF 1

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes. REV. 10/16



Client: Mr. Paul Natoli  
Arcadis, Inc.  
75 Glen Road, Ste 305  
Sandy Hook, CT 06482

# Analytical Report

## CET# 9010730

Report Date: February 05, 2019  
Project: Mallory Hat Factory, Danbury  
Project Number: HT212711.0000.00001

Connecticut Laboratory Certificate: PH 0116  
Massachusetts Laboratory Certificate: M-CT903  
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982  
Pennsylvania Laboratory Certificate: 68-02927

CET #: 9010730

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**SAMPLE SUMMARY**

The sample(s) were received at 2.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
MW-5 0-2ft	9010730-01	Soil	1/17/2019 11:00	01/18/2019
MW-5 5-7ft	9010730-02	Soil	1/17/2019 11:20	01/18/2019
MW-6 0-2ft	9010730-03	Soil	1/17/2019 13:00	01/18/2019

**Analyte: SPLP Lead [EPA 6020A]**

**Analyst: CED**

**Prep: EPA 3005A-1312**

**Matrix: Extract**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9010730-03	MW-6 0-2ft	0.14	0.013	mg/L	1	B9B0118	02/01/2019	02/05/2019 13:32	

**Analyte: SPLP Mercury [EPA 6020A]**

**Analyst: CED**

**Prep: EPA 3005A-1312**

**Matrix: Extract**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9010730-01	MW-5 0-2ft	0.011	0.0020	mg/L	1	B9B0118	02/01/2019	02/05/2019 13:03	
9010730-02	MW-5 5-7ft	0.011	0.0020	mg/L	1	B9B0118	02/01/2019	02/05/2019 13:27	
9010730-03	MW-6 0-2ft	0.012	0.0020	mg/L	1	B9B0118	02/01/2019	02/05/2019 13:32	

**Analyte: SPLP Arsenic [EPA 6020A]**

**Analyst: CED**

**Prep: EPA 3005A-1312**

**Matrix: Extract**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9010730-03	MW-6 0-2ft	ND	0.0090	mg/L	1	B9B0118	02/01/2019	02/05/2019 13:32	

CET #: 9010730

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

### QUALITY CONTROL SECTION

#### Batch B9B0118 - EPA 6020A

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9B0118-BLK1)</b>				Prepared: 2/1/2019 Analyzed: 2/5/2019					
Lead	ND	0.013							
Arsenic	ND	0.0090							
Mercury	ND	0.0020							
<b>LCS (B9B0118-BS1)</b>				Prepared: 2/1/2019 Analyzed: 2/5/2019					
Lead	0.200	0.013	0.200		100	80 - 120			
Arsenic	0.203	0.0090	0.200		101	80 - 120			
Mercury	0.00505	0.0020	0.005		101	80 - 120			
<b>Duplicate (B9B0118-DUP1)</b>				<b>Source: 9010730-01</b>		Prepared: 2/1/2019 Analyzed: 2/5/2019			
Lead	0.0582	0.013		0.0578			0.708	20	
Arsenic	ND	0.0090		ND				20	
Mercury	0.0113	0.0020		0.0113			0.744	20	
<b>Matrix Spike Dup (B9B0118-MSD1)</b>				<b>Source: 9010730-01</b>		Prepared: 2/1/2019 Analyzed: 2/5/2019			
Lead	0.312	0.013	0.200	0.0578	<b>127</b>	75 - 125		20	<b>H</b>
Arsenic	0.259	0.0090	0.200	ND	<b>130</b>	75 - 125		20	<b>H</b>
Mercury	0.0175	0.0020	0.005	0.0113	124	75 - 125		20	

CET #: 9010730

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

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

Sincerely,

This technical report was reviewed by Robert Blake



David Ditta  
Laboratory Director

Project Manager

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- \*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- \*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- \*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- \*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- \*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

RL is the Reporting Limit

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.



80 Lupes Drive  
Stratford, CT 06615

Tel: (203) 377-9984  
Fax: (203) 377-9952  
email: cct1@cetlabs.com

### Quality Control Definitions and Abbreviations

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

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



Connecticut Laboratory Certification PH0116  
Massachusetts Laboratory Certification M-CT903

New York NELAP Accreditation 11982  
Rhode Island Certification 199





## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

**Client:** Arcadis, Sandy Hook CT

**Project Location:** Mallory Hat Factory, Danbury

**Project Number:** HT212711.0000.00001

**Laboratory Sample ID(s):**

9010730-01 thru 9010730-03

**Sample Date(s):**

01/17/2019

**List RCP Methods Used:**

EPA 1312, EPA 6020A

**CET #:** 9010730

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

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

This form may not be altered and all questions must be answered.

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

**Authorized Signature:**

**Position:** Laboratory Director

**Printed Name:** David Ditta

**Date:** 02/05/2019

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

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

## RCP Case Narrative

4- See Exceptions Report Below

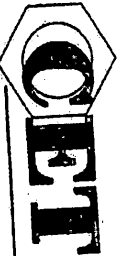
### 4- Exceptions Report

Analyte	QC Type	Exception	Result	RPD	Recovery (%)	Batch/Sequence Sample ID
Arsenic	MSD	High			130	9010730-01
Lead	MSD	High			127	9010730-01

### QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B9B0116		9010730-01	MW-5 0-2ft	EPA 1312	Soil	01/17/2019
B9B0116		9010730-02	MW-5 5-7ft	EPA 1312	Soil	01/17/2019
B9B0116		9010730-03	MW-6 0-2ft	EPA 1312	Soil	01/17/2019
B9B0118	S9B0501	9010730-01	MW-5 0-2ft	EPA 6020A	Soil	01/17/2019
B9B0118	S9B0501	9010730-02	MW-5 5-7ft	EPA 6020A	Soil	01/17/2019
B9B0118	S9B0501	9010730-03	MW-6 0-2ft	EPA 6020A	Soil	01/17/2019

9010730



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client: CET

Additional Analysis

80 Lupes Drive  
Stratford, CT 06615

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

Sample ID/Sample Depths  
(include Units for any sample depths provided)

Collection Date/Time

Matrix:  
Acid-Soluble  
W-Water  
DM-Extracting  
Water  
C-Cassette  
Soil  
Wipe  
Other (Specify)

Turnaround Time \*\*  
(check one)  
Same Day \*  
Next Day \*  
Two Day \*  
Three Day \*  
Std (5-7 Days)

Sample ID/Sample Depths	Collection Date/Time	Matrix	Turnaround Time	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs	SOX	ASE	Pesticides	8 RCRA	13 Priority Poll	15 CT DEP	Total Hg	SPLP Hg	TCLP	Dissolved	Field Filtered	Lab to Filter	Additional Analysis	TOTAL # OF CONT.	NOTE #
MW-1(D-2')	11/16/94	9600	S	X													X	01						1	
MW-6(B-2')	11/20	1120		X													X	01						1	
MW-6(B-7')	11/20	1140		X													X	01						1	
MW-6(B-12')	11/20	1300		X													X	01						1	
MW-10(B-2')	11/20	1330		X													X	01						1	
MW-10(B-7')	11/20	1350		X													X	01						1	
MW-10(B-12')	11/20	1350		X													X	01						1	

PRESERVATIVE (Cl-HCl, N-HNO3, S-H2SO4, Na-NaOH, C-Cool, O-Other)

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

Soil VOCs Only (M-MeOH B-Bisulfite W-Water F-F-Vial Empty E-Encone)

RELINQUISHED BY: DATE/TIME RECEIVED BY: DATE/TIME

RELINQUISHED BY: DATE/TIME RECEIVED BY: DATE/TIME

RELINQUISHED BY: DATE/TIME RECEIVED BY: DATE/TIME

Client / Reporting Information

Company Name: ARCADIS  
Address: 713 Green Rd State: CT Zip: 06452  
City: SANDY HOOK E-mail: ARCADIS@ARCADIS.COM  
Report To: Paul Bostoi Fax #: 203.377.9952  
Phone #:

Project: WALTON HOT FACILITY PO #: HS212711.0000.00001  
Location: SANDY HOOK, CT Collector(s): MS  
CET Quote # \_\_\_\_\_  
QA/QC:  Std  Site Specific (MS/MSD) \*  RCP Pkg \*  DOAW \*Data Report:  PDF  EDD - Specify Format  GB  SWP  Other \_\_\_\_\_  
RSR Reporting Limits (check one)  GA  CT  NY  RI  MA  
Laboratory Certification Needed (check one)  CT  NY  RI  MA  
Temp Upon Receipt: 100 Evidence of Cooling: 100 N. PAGE 1 OF 1  
REV 10/76

NOTES:

01 - Additional analysis 1/30/2019

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.



Client: Mr. Paul Natoli  
Arcadis, Inc.  
75 Glen Road, Ste 305  
Sandy Hook, CT 06482

# Analytical Report

## CET# 9010731

Report Date: February 06, 2019  
Project: Mallory Hat Factory, Danbury  
Project Number: HT212711.0000.00001

Connecticut Laboratory Certificate: PH 0116  
Massachusetts Laboratory Certificate: M-CT903  
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982  
Pennsylvania Laboratory Certificate: 68-02927

CET #: 9010731

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**SAMPLE SUMMARY**

The sample(s) were received at 3.1°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
BLD-2 0-2ft	9010731-01	Soil	1/16/2019 13:55	01/17/2019
RG-1 0-2ft	9010731-02	Soil	1/16/2019 13:00	01/17/2019
RG-2 0-2ft	9010731-03	Soil	1/16/2019 13:10	01/17/2019
MHS-3S1 4ft	9010731-04	Soil	1/16/2019 13:20	01/17/2019

**Analyte: SPLP Mercury [EPA 6020A]**

**Analyst: CED**

**Prep: EPA 3005A-1312**

**Matrix: Extract**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9010731-01	BLD-2 0-2ft	0.016	0.0020	mg/L	1	B9B0118	02/01/2019	02/05/2019 13:37	
9010731-03	RG-2 0-2ft	0.0073	0.0020	mg/L	1	B9B0118	02/01/2019	02/05/2019 15:02	
9010731-04	MHS-3S1 4ft	0.0020	0.0020	mg/L	1	B9B0118	02/01/2019	02/05/2019 15:07	

**Analyte: SPLP Arsenic [EPA 6020A]**

**Analyst: CED**

**Prep: EPA 3005A-1312**

**Matrix: Extract**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9010731-01	BLD-2 0-2ft	ND	0.0090	mg/L	1	B9B0118	02/01/2019	02/05/2019 13:37	
9010731-02	RG-1 0-2ft	ND	0.0090	mg/L	1	B9B0118	02/01/2019	02/05/2019 14:57	
9010731-03	RG-2 0-2ft	ND	0.0090	mg/L	1	B9B0118	02/01/2019	02/05/2019 15:02	

CET #: 9010731

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

### QUALITY CONTROL SECTION

#### Batch B9B0118 - EPA 6020A

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9B0118-BLK1)</b>					Prepared: 2/1/2019 Analyzed: 2/5/2019				
Arsenic	ND	0.0090							
Mercury	ND	0.0020							
<b>LCS (B9B0118-BS1)</b>					Prepared: 2/1/2019 Analyzed: 2/5/2019				
Arsenic	0.203	0.0090	0.200		101	80 - 120			
Mercury	0.00505	0.0020	0.005		101	80 - 120			

CET #: 9010731

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001


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

Sincerely,

This technical report was reviewed by Timothy Fusco



David Ditta  
Laboratory Director



Project Manager

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- \*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- \*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- \*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- \*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- \*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

RL is the Reporting Limit

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.



80 Lupes Drive  
Stratford, CT 06615

Tel: (203) 377-9984  
Fax: (203) 377-9952  
email: cct1@cetlabs.com

### Quality Control Definitions and Abbreviations

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

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



Connecticut Laboratory Certification PH0116  
Massachusetts Laboratory Certification M-CT903

New York NELAP Accreditation 11982  
Rhode Island Certification 199





## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

**Client:** Arcadis, Sandy Hook CT

**Project Location:** Mallory Hat Factory, Danbury

**Project Number:** HT212711.0000.00001

**Laboratory Sample ID(s):**

9010731-01 thru 9010731-04

**Sample Date(s):**

01/16/2019

**List RCP Methods Used:**

EPA 1312, EPA 6020A

**CET #:** 9010731

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

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

This form may not be altered and all questions must be answered.

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

**Authorized Signature:**

**Position:** Laboratory Director

**Printed Name:** David Ditta

**Date:** 02/06/2019

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

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

## RCP Case Narrative

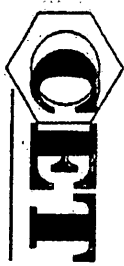
6- Client requested a subset of the RCP metals list.

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

### QC Batch/Sequence Report

<b>Batch</b>	<b>Sequence</b>	<b>CET ID</b>	<b>Sample ID</b>	<b>Specific Method</b>	<b>Matrix</b>	<b>Collection Date</b>
B9B0116		9010731-01	BLD-2 0-2ft	EPA 1312	Soil	01/16/2019
B9B0116		9010731-02	RG-1 0-2ft	EPA 1312	Soil	01/16/2019
B9B0116		9010731-03	RG-2 0-2ft	EPA 1312	Soil	01/16/2019
B9B0116		9010731-04	MHS-3S1 4ft	EPA 1312	Soil	01/16/2019
B9B0118	S9B0501	9010731-01	BLD-2 0-2ft	EPA 6020A	Soil	01/16/2019
B9B0118	S9B0501	9010731-02	RG-1 0-2ft	EPA 6020A	Soil	01/16/2019
B9B0118	S9B0501	9010731-03	RG-2 0-2ft	EPA 6020A	Soil	01/16/2019
B9B0118	S9B0501	9010731-04	MHS-3S1 4ft	EPA 6020A	Soil	01/16/2019





COMPLETE ENVIRONMENTAL TESTING, INC.

# CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client: 11/6/2019 Scorp - 132

CET:

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

Sample ID/Sample Depths (Include Units for any sample depths provided)	Collection Date/Time	Matrix Asst S-Sol W-Water DW-Drinking Water C-Clean C-Clean S-Sol W-Water Other (Specify)	Turnaround Time ** (check one)				8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNA's	PCBs <input type="checkbox"/> SOX <input type="checkbox"/> ASE	Pesticides	8 RCRA	13 Priority Poll	15 CT DEP	Metals				TOTAL # OF CONT.	NOTE #		
			Same Day *	Next Day *	Two Day *	Three Day *												Total Pb	SPLP	TCLP	Field Filtered			Lab to Filter	
53-55(41)	11/19/2019	S							X																
AS-45(0-11)	1/40	S							X																
AS-45(6-71)	1/40	S							X																
A-10(0-2)	2:10								X																
A-9(0-2)	2:10								X																
RG-1(0-2)	1:00								X																
RG-1(41)	1:00								X																
RG-2(0-2)	1:10								X																
RG-2(41)	1:10								X																
PLG-1(0-2)	11:45								X																

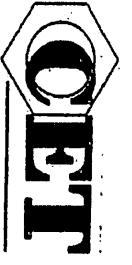
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)  
Soil YDCS Only (M-MeOH B-Sodium W-Water F-Filtrate E-Encore)  
RELINQUISHED BY: [Signature] DATE/TIME: 11/19/2019 RECEIVED BY: [Signature]  
RELINQUISHED BY: [Signature] DATE/TIME: 11/19/2019 RECEIVED BY: [Signature]  
RELINQUISHED BY: [Signature] DATE/TIME: 11/19/2019 RECEIVED BY: [Signature]

NOTES:  
① See page 3  
A1 - additional analysis 1/30/2019

**Client / Reporting Information**  
Company Name: ARCADIS  
Address: 75 Glyn Road State: VT Zip: 06482  
City: Savoy Hook: CT  
Report for: Paul Natale E-mail: Paul.Natale@arcadis.com  
Phone #: 203-514-4515 Fax #:

**Project Information**  
Project: Minsky Hrs Factory PO #:   
Location: Dorbury, CT Project #: HT12711.0000.0001  
CET Quote #:  Collector(s): MSRV  
OADC:  Std  Site Specific (MISMSD)  RCP Pkg  DOAW  
Data Report  PDF  EDD - Specify Format Excel Other:   
RSH Reporting Limits (check one)  GA  GB  SWP  FI  MA  
Laboratory Certification Needed (check one)  CT  NV  RI  MA  
Temp Upon Receipt: 3.1 °C Evidence of Spoiling:  N  Y  
PAGE 2 OF 3

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes. REV. 10/16



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client: 1/16/2019 5:00pm -1329

CET:

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

Sample ID/Sample Depths (include Units for any sample depths provided)	Collection Date/Time	Matrix A-As Soil Wash Dye-Dyeing Water C-Caselle Solid Wipe Other (Specify)	Turnaround Time ** (check one)			
			Same Day *	Next Day *	Two Day *	Three Day *
MHS-251(4')	1/16/19 1:20	S				X
MHS-301(0-2')	2:40	S				X
MHS-301(0-2')	3:00	S				X
DOP-1						X

8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNA's	PCBs <input type="checkbox"/> SOX <input type="checkbox"/> ASE	Pesticides	8 RCRA	13 Priority Poll	15 CT DEP	Total <sup>Hg</sup>	SPLP <sup>Hg</sup>	TCLP	Dissolved	Field Filtered	Lab to Filter	Additional Analysis	TOTAL # OF CONT.	NOTE #
											X	X	X	X	X	X	TOXIC AS	1	1
											X	X	X	X	X	X		1	1
											X	X	X	X	X	X		1	1

PRESERVATIVE (Cl-HCl, N-HNO<sub>3</sub>, S-H<sub>2</sub>SO<sub>4</sub>, Na-NaOH, C-Cool, O-Other)

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

Soil VOCs Only (M-MeOH B-Bisulfite W-Water F-Empty E-Errors)

RELINQUISHED BY: [Signature] DATE/TIME: 1/16/19 10:20 RECEIVED BY: [Signature]

RELINQUISHED BY: [Signature] DATE/TIME: 1/16/19 13:35 RECEIVED BY: [Signature]

Client / Reporting Information

Company Name: Arada's

Address: 715 Glen Rd State: CT Zip: 06182

City: Stratford

Report to: Rodney Detoni E-mail: rodni@cellabs.com

Phone #: 203-377-9984 Fax #: 203-377-9952

Project Information

Project: Walton hot factory PO #: 11212711.0000.00001

Location: Danbury, CT Collector(s): MS, PD

CET Quote # ---

OMQC:  Sid  Site Specific (MS/MSD)  RCP Pkg  DOAW

Data Report  PDF  ETD - Specify Format  Other

RSR Reporting Limits (check one)  GA  GB  SWP  RI  MA

Laboratory Certification Needed (check one)  IGT  NY  RI  MA

Temp Upon Receipt:  Cooling:  Evidence of Receipt:  N

PAGE 3 OF 3

NOTES: See Standards

1 ms/msd

D1 - ADDITIONAL ANALYSIS 1/30/2019 M

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.



Client: Mr. Paul Natoli  
Arcadis, Inc.  
75 Glen Road, Ste 305  
Sandy Hook, CT 06482

# Analytical Report

## CET# 9020009

Report Date: February 05, 2019  
Project: Mallory Hat Factory, Danbury  
Project Number: HT212711.0000.00001

Connecticut Laboratory Certificate: PH 0116  
Massachusetts Laboratory Certificate: M-CT903  
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982  
Pennsylvania Laboratory Certificate: 68-02927

CET # : 9020009

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**SAMPLE SUMMARY**

The sample(s) were received at 1.9°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
FB-1 4ft	9020009-01	Soil	1/16/2019 10:30	01/30/2019

**Analyte: SPLP Mercury [EPA 7470A]**

**Analyst: SFJ**

**Matrix: Extract**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9020009-01	FB-1 4ft	0.014	0.0040	mg/L	2	B9B0503	02/05/2019	02/05/2019 13:14	

CET # : 9020009

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

### QUALITY CONTROL SECTION

#### Batch B9B0503 - EPA 7470A

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9B0503-BLK1)</b>									Prepared: 2/5/2019 Analyzed: 2/5/2019
Mercury	ND	0.0020							
<b>LCS (B9B0503-BS1)</b>									Prepared: 2/5/2019 Analyzed: 2/5/2019
Mercury	0.00464	0.0020	0.005		92.8	80 - 120			
<b>Duplicate (B9B0503-DUP1)</b>									Prepared: 2/5/2019 Analyzed: 2/5/2019
Mercury	0.0137	0.0040		0.0141			3.17	20	
<b>Matrix Spike (B9B0503-MS1)</b>									Prepared: 2/5/2019 Analyzed: 2/5/2019
Mercury	0.0184	0.0040	0.005	0.0141	86.0	80 - 120			
<b>Matrix Spike Dup (B9B0503-MSD1)</b>									Prepared: 2/5/2019 Analyzed: 2/5/2019
Mercury	0.0185	0.0040	0.005	0.0141	88.8	80 - 120	0.758	20	



CET #: 9020009

Project: Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

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

Sincerely,

This technical report was reviewed by Robert Blake



David Ditta  
Laboratory Director

Project Manager

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- \*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- \*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- \*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- \*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- \*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

RL is the Reporting Limit

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.



80 Lupes Drive  
Stratford, CT 06615

Tel: (203) 377-9984  
Fax: (203) 377-9952  
email: cct1@cetlabs.com

### Quality Control Definitions and Abbreviations

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

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



Connecticut Laboratory Certification PH0116  
Massachusetts Laboratory Certification M-CT903

New York NELAP Accreditation 11982  
Rhode Island Certification 199



## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

**Client:** Arcadis, Sandy Hook CT

**Project Location:** Mallory Hat Factory, Danbury

**Project Number:** HT212711.0000.00001

**Laboratory Sample ID(s):**  
9020009-01

**Sample Date(s):**  
01/16/2019

**List RCP Methods Used:**  
EPA 1312, EPA 7470A

**CET #:** 9020009

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

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

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

**Authorized Signature:**

**Position:** Laboratory Director

**Printed Name:** David Ditta

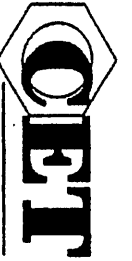
**Date:** 02/05/2019

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

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

QC Batch/Sequence Report

<b>Batch</b>	<b>Sequence</b>	<b>CET ID</b>	<b>Sample ID</b>	<b>Specific Method</b>	<b>Matrix</b>	<b>Collection Date</b>
B9B0408		9020009-01	FB-1 4ft	EPA 1312	Soil	01/16/2019
B9B0503		9020009-01	FB-1 4ft	EPA 7470A	Soil	01/16/2019



COMPLETE ENVIRONMENTAL TESTING, INC.

# CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client:

CET:

Additional Analysis

80 Lupes Drive  
Stratford, CT 06615

Tel: (203) 377-9984  
Fax: (203) 377-9952  
e-mail: cet1@cellabs.com  
Bottle Request e-mail: bottleorders@cellabs.com

Sample ID/Sample Depths  
(Include Units for any sample depths provided)

Collection Date/Time

Matrix  
A-Water  
S-Water  
DWA-Distilling  
Water  
C-Cassette  
Soil  
Wipe  
Other  
(Specify)

Turnaround Time \*\*  
(check one)

Same Day \*  
Next Day \*  
Two Day \*  
Three Day \*  
Std (5-7 Days)

8260 CT List  
8260 Aromatics  
8260 Halogens  
CT ETPH  
8270 CT List  
8270 PNAs  
PCBs  SOX  ASE  
Pesticides  
8 RCRA  
13 Priority Poll  
15 CT DEP  
Total     
SPLP     
TCLP  
Dissolved  
Field Filtered  
Lab to Filter

TOTAL # OF CONT.  
NOTE #

Sample ID/Sample Depths	Collection Date/Time	Matrix	Turnaround Time **	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs	SOX	ASE	Pesticides	8 RCRA	13 Priority Poll	15 CT DEP	Total	SPLP	TCLP	Dissolved	Field Filtered	Lab to Filter	TOTAL # OF CONT.	NOTE #
RD-2 (6')	1/16/19 1:55	S	X	X													X	X					1	
FB-1 (4')	1/16/19 1:30	S	X	X													X	X					1	
RS-1 (6')	1/16/19 1:00	S	X	X													X	X					1	
MMS-35' (6')	1/16/19 1:20	S	X	X													X	X					1	

PRESERVATIVE (G-HCl, N-HNO<sub>3</sub>, S-H<sub>2</sub>SO<sub>4</sub>, Na-NaOH, C-Cool, O-Other)

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

Soil Vials Only (M-MeOH B-Sediment W-Water F-Empty E-Envelope)

RELINQUISHED BY: [Signature] DATE/TIME: 1/31/19 12:00 RECEIVED BY: [Signature] DATE/TIME: 1/30/19 12:45

RELINQUISHED BY: [Signature] DATE/TIME: 1/30/19 12:45 RECEIVED BY: [Signature] DATE/TIME: 1/30/19 12:45

**Client / Reporting Information**

Company Name: Cellabs

Address: 75 GLEN ROAD SUITE 305

City: SANBY HAVK State: CT Zip: 06482

Report To: Paul D'Amico E-mail: paul.damico@cellabs.com

Phone #: 203-514-4515 Fax #: [Blank]

**Project Information**

Project: MUNICIPALITY NOT FORCIBLY PO #: [Blank]

Location: Danbury Project #: HT22711.0003.0001

CET Quote # [Blank] Collector(s): MS/RS

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

Data Report  PDF  EDD - Specity Format  GA  GB  SWP  Other

RSR Reporting Limits (check one)  CT  NY  RI  MA

Laboratory Certification Needed (check one)  Evidence of Cooling:  N  PAGE 1 OF 1

Temp Upon Receipt: 1.9 °C

**NOTES:**  
#1 - ADDITIONAL ANALYSIS 1/16/19

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.

REV. 10/16

Client: Mr. Paul Natoli  
Arcadis, Inc.  
75 Glen Road, Ste 305  
Sandy Hook, CT 06482

# Analytical Report

## CET# 9040310



Report Date: April 16, 2019  
Project: Former Mallory Hat Factory, Danbury  
Project Number: HT212711.0000.00001  
PO Number: HT212711.0000.00001

Connecticut Laboratory Certificate: PH 0116  
Massachusetts Laboratory Certificate: M-CT903  
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982  
Pennsylvania Certificate: 68-02927

CET #:9040310

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**SAMPLE SUMMARY**

The sample(s) were received at 4.8°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
SP-1	9040310-01	Soil	4/09/2019 14:00	04/10/2019
SP-2	9040310-02	Soil	4/09/2019 14:15	04/10/2019
NE-Pile-1	9040310-03	Soil	4/09/2019 15:00	04/10/2019
NE-Pile-2	9040310-04	Soil	4/09/2019 15:05	04/10/2019

**Analyte: Percent Solids [SM 2540 G]**

**Analyst: LMW**

**Matrix: Soil**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9040310-01	SP-1	90	1.0	%	1	B9D1140	04/11/2019	04/12/2019 08:45	
9040310-02	SP-2	89	1.0	%	1	B9D1140	04/11/2019	04/12/2019 08:45	
9040310-03	NE-Pile-1	88	1.0	%	1	B9D1117	04/11/2019	04/12/2019 11:22	
9040310-04	NE-Pile-2	86	1.0	%	1	B9D1117	04/11/2019	04/12/2019 11:22	

**Analyte: Mercury [EPA 7471B]**

**Analyst: PJB**

**Matrix: Soil**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9040310-03	NE-Pile-1	28	0.71	mg/kg dry	5	B9D1505	04/15/2019	04/15/2019 13:03	
9040310-04	NE-Pile-2	4.7	0.15	mg/kg dry	1	B9D1110	04/12/2019	04/12/2019 15:02	

**Client Sample ID SP-1**

**Lab ID: 9040310-01**

**Conn. Extractable TPH**

**Analyst: KER**

**Method: CT-ETPH**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
<b>ETPH</b>	<b>290</b>	55	1	EPA 3550C	B9D1131	04/11/2019	04/12/2019 01:49	R
<i>Surrogate: Octacosane</i>	<i>120 %</i>	<i>50 - 150</i>			B9D1131	04/11/2019	<i>04/12/2019 01:49</i>	
R C18-C36 unknown								

CET #:9040310

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Client Sample ID SP-2**

**Lab ID: 9040310-02**

**Conn. Extractable TPH**

**Analyst: KER**

**Method: CT-ETPH**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	56	1	EPA 3550C	B9D1131	04/11/2019	04/12/2019 02:12	
<i>Surrogate: Octacosane</i>	<i>112 %</i>		<i>50 - 150</i>		B9D1131	04/11/2019	<i>04/12/2019 02:12</i>	



CET #:9040310

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

### QUALITY CONTROL SECTION

#### Batch B9D1110 - EPA 7471B

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9D1110-BLK1)</b>									Prepared: 4/12/2019 Analyzed: 4/12/2019
Mercury	ND	0.13							
<b>LCS (B9D1110-BS1)</b>									Prepared: 4/12/2019 Analyzed: 4/12/2019
Mercury	2.65	0.13	2.500		106	80 - 120			

CET #:9040310

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Batch B9D1131 - CT-ETPH**

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9D1131-BLK1)</b>									Prepared: 4/11/2019 Analyzed: 4/11/2019
ETPH	ND	50							
<i>Surrogate: Octacosane</i>					<i>111</i>	<i>50 - 150</i>			
<b>LCS (B9D1131-BS1)</b>									Prepared: 4/11/2019 Analyzed: 4/11/2019
ETPH	1480	50	1,500.000		98.6	60 - 120			
<i>Surrogate: Octacosane</i>					<i>108</i>	<i>50 - 150</i>			

CET #:9040310

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Batch B9D1505 - EPA 7471B**

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9D1505-BLK1)</b>									Prepared: 4/15/2019 Analyzed: 4/15/2019
Mercury	ND	0.13							
<b>LCS (B9D1505-BS1)</b>									Prepared: 4/15/2019 Analyzed: 4/15/2019
Mercury	2.68	0.13	2.500		107	80 - 120			

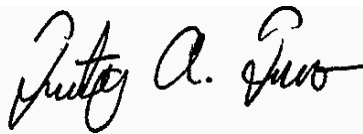
All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by Timothy Fusco



David Ditta  
Laboratory Director



Project Manager

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- \*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- \*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- \*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- \*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- \*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

RL is the Reporting Limit

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.



80 Lupes Drive  
Stratford, CT 06615

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

### Quality Control Definitions and Abbreviations

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

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



Connecticut Laboratory Certification PH0116  
Massachusetts Laboratory Certification M-CT903

New York NELAP Accreditation 11982  
Rhode Island Certification 199



## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

**Client:** Arcadis, Sandy Hook CT

**Project Location:** Former Mallory Hat Factory, Danbury

**Project Number:** HT212711.0000.00001

**Laboratory Sample ID(s):**

9040310-01 thru 9040310-04

**Sample Date(s):**

04/09/2019

**List RCP Methods Used:**

CT-ETPH, EPA 7471B

**CET #:** 9040310

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

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

This form may not be altered and all questions must be answered.

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

**Authorized Signature:**

**Position:** Laboratory Director

**Printed Name:** David Ditta

**Date:** 04/15/2019

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

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

## RCP Case Narrative

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

### QC Batch/Sequence Report

<b>Batch</b>	<b>Sequence</b>	<b>CET ID</b>	<b>Sample ID</b>	<b>Specific Method</b>	<b>Matrix</b>	<b>Collection Date</b>
B9D1131	S9D1206	9040310-01	SP-1	CT-ETPH	Soil	04/09/2019
B9D1131	S9D1206	9040310-02	SP-2	CT-ETPH	Soil	04/09/2019
B9D1110		9040310-04	NE-Pile-2	EPA 7471B	Soil	04/09/2019
B9D1505		9040310-03	NE-Pile-1	EPA 7471B	Soil	04/09/2019

9040310



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatiles Only:  
Date and Time in Freezer  
Client:  
CET:  
Additional Analysis

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

Sample ID/Sample Depths  
(include Units for any sample depths provided)

Collection Date/Time	Matrix			Turnaround Time ** (check one)
	A=Air S=Soil W=Water DW=Drinking Water C=Cassette	Solid	Wipe Other	
SP-1				Same Day * <input type="checkbox"/>
SP-2				Next Day * <input type="checkbox"/>
NB-P148-1				Two Day * <input type="checkbox"/>
NB-P148-2				Three Day * <input type="checkbox"/>
				Std (5-7 Days) <input type="checkbox"/>

8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs	SOX	ASE	Metals				8 RCRA	13 Priority Poll	15 CT DEP	Total	SPLP	TCLP	Dissolved	Field Filtered	Lab to Filter	

TOTAL # OF CONT. 4  
NOTE #

PRESERVATIVE (C=HCl, N=HNO3, S=H2SO4, Na=NaOH, C=Cool, O=Other)	CONTAINER TYPE (P=Plastic, G=Glass, V=Vial, O=Other)	Soil VOCs Only (M=Meth, B=Bisulphate, W=Water, F=Empty, E=Encore)	RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME

Client / Reporting Information  
Company Name: ARCADIS  
Address: 75 Green Road  
City: Stammy Hook State: CT Zip: 06482  
Report to: Paul Mattoli E-mail: Paul.Mattoli@arcadis.com  
Phone #: 203-514-4515 Fax #: \_\_\_\_\_

NOTES:  
Project: Mowing Hill Factory PO #: 10212711.0000.0000/1  
Location: Denville Project #: HT212711.0000.0000/1  
CET Quote # \_\_\_\_\_ Collector(s): PJ  
Data Report  PDF  EDD - Specify Format \_\_\_\_\_ Other \_\_\_\_\_  
RSR Reporting Limits (check one)  GA  GB  SWP  Other \_\_\_\_\_  
Laboratory Certification Needed (check one)  CT  NY  RI  MA  PA  
Temp Upon Receipt: 15 °C Evidence of Cooling: N PAGE: 1 OF: 1

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.



Client: Mr. Paul Natoli  
Arcadis, Inc.  
75 Glen Road, Ste 305  
Sandy Hook, CT 06482

# Analytical Report

## CET# 9040311



Report Date: April 17, 2019  
Project: Former Mallory Hat Factory, Danbury  
Project Number: HT212711.0000.00001  
PO Number: HT212711.0000.00001

Connecticut Laboratory Certificate: PH 0116  
Massachusetts Laboratory Certificate: M-CT903  
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982  
Pennsylvania Certificate: 68-02927

**SAMPLE SUMMARY**

The sample(s) were received at 4.8°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
SB-6R 4-6ft	9040311-01	Soil	4/09/2019	04/10/2019
BLD-2N 0-2ft	9040311-02	Soil	4/09/2019	04/10/2019
BLD-2N 6-8ft	9040311-03	Soil	4/09/2019	04/10/2019
RG-3 0-2ft	9040311-04	Soil	4/09/2019	04/10/2019
RG-4 0-2ft	9040311-05	Soil	4/09/2019	04/10/2019
LD-1 0-2ft	9040311-06	Soil	4/09/2019	04/10/2019
LD-1 4ft	9040311-07	Soil	4/09/2019	04/10/2019
LD-2 0-2ft	9040311-08	Soil	4/09/2019	04/10/2019
LD-2 4ft	9040311-09	Soil	4/09/2019	04/10/2019
LD-3 0-2ft	9040311-10	Soil	4/09/2019	04/10/2019
LD-3 4ft	9040311-11	Soil	4/09/2019	04/10/2019
PL-1 0-2ft	9040311-12	Soil	4/09/2019	04/10/2019
PL-1 4ft	9040311-13	Soil	4/09/2019	04/10/2019
PL-2 0-2ft	9040311-14	Soil	4/09/2019	04/10/2019
PL-2 4ft	9040311-15	Soil	4/09/2019	04/10/2019
PL-3 0-2ft	9040311-16	Soil	4/09/2019	04/10/2019
PL-3 4ft	9040311-17	Soil	4/09/2019	04/10/2019
PL-4 0-2ft	9040311-18	Soil	4/09/2019	04/10/2019
PL-4 4ft	9040311-19	Soil	4/09/2019	04/10/2019
PL-5 0-2ft	9040311-20	Soil	4/09/2019	04/10/2019
PL-5 4ft	9040311-21	Soil	4/09/2019	04/10/2019
PL-6 0-2ft	9040311-22	Soil	4/09/2019	04/10/2019
PL-6 4ft	9040311-23	Soil	4/09/2019	04/10/2019
PL-7 0-2ft	9040311-24	Soil	4/09/2019	04/10/2019
PL-7 4ft	9040311-25	Soil	4/09/2019	04/10/2019
PL-8 0-2ft	9040311-26	Soil	4/09/2019	04/10/2019
PL-8 4ft	9040311-27	Soil	4/09/2019	04/10/2019
DS-SED	9040311-28	Soil	4/09/2019	04/10/2019

CET #:9040311

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

Analyte: Percent Solids [SM 2540 G]

Analyst: LMW

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9040311-01	SB-6R 4-6ft	87	1.0	%	1	B9D1140	04/11/2019	04/12/2019 08:45	
9040311-02	BLD-2N 0-2ft	85	1.0	%	1	B9D1117	04/11/2019	04/12/2019 11:22	
9040311-03	BLD-2N 6-8ft	79	1.0	%	1	B9D1117	04/11/2019	04/12/2019 11:22	
9040311-04	RG-3 0-2ft	83	1.0	%	1	B9D1117	04/11/2019	04/12/2019 11:22	
9040311-05	RG-4 0-2ft	89	1.0	%	1	B9D1117	04/11/2019	04/12/2019 11:22	
9040311-06	LD-1 0-2ft	85	1.0	%	1	B9D1117	04/11/2019	04/12/2019 11:22	
9040311-07	LD-1 4ft	68	1.0	%	1	B9D1117	04/11/2019	04/12/2019 11:22	
9040311-08	LD-2 0-2ft	80	1.0	%	1	B9D1117	04/11/2019	04/12/2019 11:22	
9040311-09	LD-2 4ft	82	1.0	%	1	B9D1117	04/11/2019	04/12/2019 11:22	
9040311-10	LD-3 0-2ft	86	1.0	%	1	B9D1117	04/11/2019	04/12/2019 11:22	
9040311-11	LD-3 4ft	89	1.0	%	1	B9D1117	04/11/2019	04/12/2019 11:22	
9040311-12	PL-1 0-2ft	90	1.0	%	1	B9D1117	04/11/2019	04/12/2019 11:22	
9040311-13	PL-1 4ft	80	1.0	%	1	B9D1117	04/11/2019	04/12/2019 11:22	
9040311-14	PL-2 0-2ft	89	1.0	%	1	B9D1117	04/11/2019	04/12/2019 11:22	
9040311-15	PL-2 4ft	85	1.0	%	1	B9D1117	04/11/2019	04/12/2019 11:22	
9040311-16	PL-3 0-2ft	80	1.0	%	1	B9D1117	04/11/2019	04/12/2019 11:22	
9040311-17	PL-3 4ft	84	1.0	%	1	B9D1117	04/11/2019	04/12/2019 11:22	
9040311-18	PL-4 0-2ft	86	1.0	%	1	B9D1117	04/11/2019	04/12/2019 11:22	
9040311-19	PL-4 4ft	83	1.0	%	1	B9D1140	04/11/2019	04/12/2019 08:45	
9040311-20	PL-5 0-2ft	89	1.0	%	1	B9D1140	04/11/2019	04/12/2019 08:45	
9040311-21	PL-5 4ft	86	1.0	%	1	B9D1140	04/11/2019	04/12/2019 08:45	
9040311-22	PL-6 0-2ft	84	1.0	%	1	B9D1140	04/11/2019	04/12/2019 08:45	
9040311-23	PL-6 4ft	85	1.0	%	1	B9D1117	04/11/2019	04/12/2019 11:22	
9040311-24	PL-7 0-2ft	82	1.0	%	1	B9D1140	04/11/2019	04/12/2019 08:45	
9040311-25	PL-7 4ft	76	1.0	%	1	B9D1140	04/11/2019	04/12/2019 08:45	
9040311-26	PL-8 0-2ft	93	1.0	%	1	B9D1140	04/11/2019	04/12/2019 08:45	
9040311-27	PL-8 4ft	87	1.0	%	1	B9D1140	04/11/2019	04/12/2019 08:45	
9040311-28	DS-SED	78	1.0	%	1	B9D1140	04/11/2019	04/12/2019 08:45	

CET #:9040311

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Analyte: Mercury [EPA 7471B]**

**Analyst: PJB**

**Matrix: Soil**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9040311-02	BLD-2N 0-2ft	1600	73	mg/kg dry	500	B9D1110	04/12/2019	04/12/2019 16:27	
9040311-03	BLD-2N 6-8ft	280	8.3	mg/kg dry	50	B9D1110	04/12/2019	04/12/2019 15:09	
9040311-04	RG-3 0-2ft	8.1	0.32	mg/kg dry	2	B9D1110	04/12/2019	04/16/2019 14:19	
9040311-05	RG-4 0-2ft	250	6.7	mg/kg dry	1	B9D1110	04/12/2019	04/16/2019 12:27	
9040311-06	LD-1 0-2ft	90	7.0	mg/kg dry	50	B9D1110	04/12/2019	04/12/2019 15:21	
9040311-07	LD-1 4ft	740	35	mg/kg dry	200	B9D1110	04/12/2019	04/12/2019 16:29	
9040311-08	LD-2 0-2ft	620	16	mg/kg dry	100	B9D1110	04/12/2019	04/12/2019 16:18	
9040311-09	LD-2 4ft	28	7.6	mg/kg dry	50	B9D1110	04/12/2019	04/12/2019 15:31	
9040311-10	LD-3 0-2ft	11	7.2	mg/kg dry	50	B9D1110	04/12/2019	04/12/2019 15:34	
9040311-11	LD-3 4ft	110	6.7	mg/kg dry	50	B9D1110	04/12/2019	04/12/2019 15:41	
9040311-12	PL-1 0-2ft	8.2	7.0	mg/kg dry	50	B9D1110	04/12/2019	04/12/2019 15:43	
9040311-13	PL-1 4ft	130	7.4	mg/kg dry	50	B9D1110	04/12/2019	04/12/2019 15:46	
9040311-14	PL-2 0-2ft	17	7.0	mg/kg dry	50	B9D1110	04/12/2019	04/12/2019 15:48	
9040311-15	PL-2 4ft	27	7.0	mg/kg dry	50	B9D1110	04/12/2019	04/12/2019 15:50	
9040311-16	PL-3 0-2ft	9.5	0.33	mg/kg dry	2	B9D1110	04/12/2019	04/16/2019 14:21	
9040311-17	PL-3 4ft	290	7.4	mg/kg dry	1	B9D1110	04/12/2019	04/16/2019 12:32	
9040311-18	PL-4 0-2ft	6.5	0.28	mg/kg dry	2	B9D1110	04/12/2019	04/16/2019 14:24	
9040311-19	PL-4 4ft	13	7.5	mg/kg dry	50	B9D1505	04/15/2019	04/15/2019 13:31	
9040311-20	PL-5 0-2ft	68	7.4	mg/kg dry	50	B9D1505	04/15/2019	04/15/2019 13:34	
9040311-21	PL-5 4ft	81	7.6	mg/kg dry	1	B9D1505	04/15/2019	04/16/2019 12:36	
9040311-22	PL-6 0-2ft	33	7.8	mg/kg dry	50	B9D1505	04/15/2019	04/15/2019 13:38	
9040311-23	PL-6 4ft	ND	0.15	mg/kg dry	1	B9D1110	04/12/2019	04/12/2019 16:32	
9040311-24	PL-7 0-2ft	24	7.6	mg/kg dry	50	B9D1505	04/15/2019	04/15/2019 13:41	
9040311-25	PL-7 4ft	98	8.7	mg/kg dry	50	B9D1505	04/15/2019	04/15/2019 13:48	
9040311-26	PL-8 0-2ft	120	6.4	mg/kg dry	1	B9D1505	04/15/2019	04/16/2019 12:39	
9040311-27	PL-8 4ft	23	7.1	mg/kg dry	50	B9D1505	04/15/2019	04/15/2019 13:53	
9040311-28	DS-SED	2.3	0.15	mg/kg dry	1	B9D1505	04/15/2019	04/16/2019 12:43	

**Analyte: Total Chromium [EPA 6010C]**

**Analyst: SS**

**Prep: EPA 3051A**

**Matrix: Soil**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9040311-01	SB-6R 4-6ft	14	2.2	mg/kg dry	1	B9D1221	04/12/2019	04/12/2019 18:17	

CET #:9040311

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Client Sample ID PL-1 0-2ft**

**Lab ID: 9040311-12**

**Conn. Extractable TPH**

**Method: CT-ETPH**

**Analyst: KER**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
<b>ETPH</b>	<b>86</b>	56	1	EPA 3550C	B9D1222	04/12/2019	04/13/2019 12:49	R
<i>Surrogate: Octacosane</i>	<i>57.0 %</i>	<i>50 - 150</i>			B9D1222	04/12/2019	<i>04/13/2019 12:49</i>	
R C18-C36 unknown								

**Client Sample ID PL-2 0-2ft**

**Lab ID: 9040311-14**

**Conn. Extractable TPH**

**Method: CT-ETPH**

**Analyst: KER**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
<b>ETPH</b>	<b>170</b>	56	1	EPA 3550C	B9D1222	04/12/2019	04/13/2019 14:21	R
<i>Surrogate: Octacosane</i>	<i>116 %</i>	<i>50 - 150</i>			B9D1222	04/12/2019	<i>04/13/2019 14:21</i>	
R C18-C36 unknown								

**Client Sample ID PL-5 0-2ft**

**Lab ID: 9040311-20**

**Conn. Extractable TPH**

**Method: CT-ETPH**

**Analyst: KER**

**Matrix: Soil**

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
<b>ETPH</b>	<b>160</b>	56	1	EPA 3550C	B9D1222	04/12/2019	04/13/2019 14:44	R
<i>Surrogate: Octacosane</i>	<i>111 %</i>	<i>50 - 150</i>			B9D1222	04/12/2019	<i>04/13/2019 14:44</i>	
R C18-C36 unknown								

CET #:9040311

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

### QUALITY CONTROL SECTION

#### Batch B9D1110 - EPA 7471B

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9D1110-BLK1)</b>									Prepared: 4/12/2019 Analyzed: 4/12/2019
Mercury	ND	0.13							
<b>LCS (B9D1110-BS1)</b>									Prepared: 4/12/2019 Analyzed: 4/12/2019
Mercury	2.65	0.13	2.500		106	80 - 120			
<b>Duplicate (B9D1110-DUP1)</b>									Prepared: 4/12/2019 Analyzed: 4/12/2019
Mercury	ND	0.15		ND				20	
<b>Matrix Spike (B9D1110-MS1)</b>									Prepared: 4/12/2019 Analyzed: 4/15/2019
Mercury	3.06	0.15	2.945	ND	104	75 - 125			
<b>Matrix Spike Dup (B9D1110-MSD1)</b>									Prepared: 4/12/2019 Analyzed: 4/15/2019
Mercury	3.18	0.15	2.945	ND	108	75 - 125	3.77	20	

CET #:9040311

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Batch B9D1117 - SM 2540 G**

Analyte	Result (%)	RL (%)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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**Duplicate (B9D1117-DUP1)**

**Source: 9040311-23**

Prepared: 4/11/2019 Analyzed: 4/12/2019

Percent Solids

85

1.0

85

0.523

5

CET #:9040311

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Batch B9D1140 - SM 2540 G**

Analyte	Result (%)	RL (%)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Duplicate (B9D1140-DUP1)</b>				<b>Source: 9040311-28</b>					
Percent Solids	77	1.0		78			0.491	5	

Prepared: 4/11/2019 Analyzed: 4/12/2019



CET #:9040311

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Batch B9D1221 - EPA 6010C**

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9D1221-BLK1)</b>									Prepared: 4/12/2019 Analyzed: 4/12/2019
Chromium	ND	2.0							
<b>LCS (B9D1221-BS1)</b>									Prepared: 4/12/2019 Analyzed: 4/12/2019
Chromium	25.1	1.9	24.131		104	80 - 120			

CET #:9040311

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Batch B9D1222 - CT-ETPH**

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9D1222-BLK1)</b>									Prepared: 4/12/2019 Analyzed: 4/13/2019
ETPH	ND	50							
<i>Surrogate: Octacosane</i>					121	50 - 150			
<b>LCS (B9D1222-BS1)</b>									Prepared: 4/12/2019 Analyzed: 4/13/2019
ETPH	1480	50	1,500.000		98.4	60 - 120			
<i>Surrogate: Octacosane</i>					112	50 - 150			
<b>Duplicate (B9D1222-DUP1)</b>				<b>Source: 9040311-12</b>					Prepared: 4/12/2019 Analyzed: 4/13/2019
ETPH	95.6	56		85.6			11.0	30	
<i>Surrogate: Octacosane</i>					113	50 - 150			
<b>Matrix Spike (B9D1222-MS1)</b>				<b>Source: 9040311-12</b>					Prepared: 4/12/2019 Analyzed: 4/13/2019
ETPH	1670	56	1,667.950	85.6	95.0	50 - 150			
<i>Surrogate: Octacosane</i>					114	50 - 150			
<b>Matrix Spike Dup (B9D1222-MSD1)</b>				<b>Source: 9040311-12</b>					Prepared: 4/12/2019 Analyzed: 4/13/2019
ETPH	1740	56	1,666.290	85.6	99.1	50 - 150	3.97	30	
<i>Surrogate: Octacosane</i>					115	50 - 150			

CET #:9040311

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**Batch B9D1505 - EPA 7471B**

Analyte	Result (mg/kg)	RL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9D1505-BLK1)</b>									
Mercury	ND	0.13							Prepared: 4/15/2019 Analyzed: 4/15/2019
<b>LCS (B9D1505-BS1)</b>									
Mercury	2.68	0.13	2.500		107	80 - 120			Prepared: 4/15/2019 Analyzed: 4/15/2019
<b>Duplicate (B9D1505-DUP1)</b>									
Mercury	1.79	0.15		2.34			<b>26.6</b>	20	<b>D</b> Source: 9040311-28 Prepared: 4/15/2019 Analyzed: 4/16/2019
<b>Matrix Spike (B9D1505-MS1)</b>									
Mercury	5.32	0.15	3.057	2.34	97.4	75 - 125			Source: 9040311-28 Prepared: 4/15/2019 Analyzed: 4/16/2019
<b>Matrix Spike Dup (B9D1505-MSD1)</b>									
Mercury	4.89	0.15	3.057	2.34	83.4	75 - 125	8.38	20	Source: 9040311-28 Prepared: 4/15/2019 Analyzed: 4/16/2019

**CASE NARRATIVE**

No collection times provided by client on chain of custody for the following samples: 9040311-01 through -28.

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

Sincerely,

This technical report was reviewed by Timothy Fusco



David Ditta  
Laboratory Director



Project Manager

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- \*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- \*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- \*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- \*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- \*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit  
RL is the Reporting Limit  
All analyses were performed in house unless a Reference Laboratory is listed.  
Samples will be disposed of 30 days after the report date.



80 Lupes Drive  
Stratford, CT 06615

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

### Quality Control Definitions and Abbreviations

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

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



Connecticut Laboratory Certification PH0116  
Massachusetts Laboratory Certification M-CT903

New York NELAP Accreditation 11982  
Rhode Island Certification 199



## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

**Client:** Arcadis, Sandy Hook CT

**Project Location:** Former Mallory Hat Factory, Danbury

**Project Number:** HT212711.0000.00001

**Laboratory Sample ID(s):**  
9040311-01 thru 9040311-28

**Sample Date(s):**  
04/09/2019

**List RCP Methods Used:**  
CT-ETPH, EPA 6010C, EPA 7471B

**CET #:** 9040311

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

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

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

**Authorized Signature:**

**Position:** Laboratory Director

**Printed Name:** David Ditta

**Date:** 04/17/2019

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

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

## RCP Case Narrative

4- See Exceptions Report Below

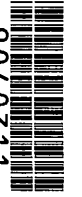
6- Client requested a subset of the RCP metals list.

### 4- Exceptions Report

Analyte	QC Type	Exception	Result	RPD	Recovery (%)	Batch/Sequence Sample ID
Mercury	DUP	>RPD		26.6		9040311-28

### QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B9D1222	S9D1517	9040311-12	PL-1 0-2ft	CT-ETPH	Soil	04/09/2019
B9D1222	S9D1517	9040311-14	PL-2 0-2ft	CT-ETPH	Soil	04/09/2019
B9D1222	S9D1517	9040311-20	PL-5 0-2ft	CT-ETPH	Soil	04/09/2019
B9D1221	S9D1211	9040311-01	SB-6R 4-6ft	EPA 6010C	Soil	04/09/2019
B9D1110		9040311-02	BLD-2N 0-2ft	EPA 7471B	Soil	04/09/2019
B9D1110		9040311-03	BLD-2N 6-8ft	EPA 7471B	Soil	04/09/2019
B9D1110		9040311-04	RG-3 0-2ft	EPA 7471B	Soil	04/09/2019
B9D1110		9040311-05	RG-4 0-2ft	EPA 7471B	Soil	04/09/2019
B9D1110		9040311-06	LD-1 0-2ft	EPA 7471B	Soil	04/09/2019
B9D1110		9040311-07	LD-1 4ft	EPA 7471B	Soil	04/09/2019
B9D1110		9040311-08	LD-2 0-2ft	EPA 7471B	Soil	04/09/2019
B9D1110		9040311-09	LD-2 4ft	EPA 7471B	Soil	04/09/2019
B9D1110		9040311-10	LD-3 0-2ft	EPA 7471B	Soil	04/09/2019
B9D1110		9040311-11	LD-3 4ft	EPA 7471B	Soil	04/09/2019
B9D1110		9040311-12	PL-1 0-2ft	EPA 7471B	Soil	04/09/2019
B9D1110		9040311-13	PL-1 4ft	EPA 7471B	Soil	04/09/2019
B9D1110		9040311-14	PL-2 0-2ft	EPA 7471B	Soil	04/09/2019
B9D1110		9040311-15	PL-2 4ft	EPA 7471B	Soil	04/09/2019
B9D1110		9040311-16	PL-3 0-2ft	EPA 7471B	Soil	04/09/2019
B9D1110		9040311-17	PL-3 4ft	EPA 7471B	Soil	04/09/2019
B9D1110		9040311-18	PL-4 0-2ft	EPA 7471B	Soil	04/09/2019
B9D1110		9040311-23	PL-6 4ft	EPA 7471B	Soil	04/09/2019
B9D1505		9040311-19	PL-4 4ft	EPA 7471B	Soil	04/09/2019
B9D1505		9040311-20	PL-5 0-2ft	EPA 7471B	Soil	04/09/2019
B9D1505		9040311-21	PL-5 4ft	EPA 7471B	Soil	04/09/2019
B9D1505		9040311-22	PL-6 0-2ft	EPA 7471B	Soil	04/09/2019
B9D1505		9040311-24	PL-7 0-2ft	EPA 7471B	Soil	04/09/2019
B9D1505		9040311-25	PL-7 4ft	EPA 7471B	Soil	04/09/2019
B9D1505		9040311-26	PL-8 0-2ft	EPA 7471B	Soil	04/09/2019
B9D1505		9040311-27	PL-8 4ft	EPA 7471B	Soil	04/09/2019
B9D1505		9040311-28	DS-SED	EPA 7471B	Soil	04/09/2019



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Solids Only:

Date and Time in Freezer

Client:

CIET:

Additional Analysis

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

Table with columns: Sample ID/Sample Depths, Collection Date/Time, Matrix, Turnaround Time, and various analysis checkboxes (8260 CT List, 8260 Aromatics, etc.).

Client / Reporting Information section containing fields for Company Name, Address, City, State, and various contact details.

Table for Chain of Custody with columns for Metals (Total Hg, SPLP, etc.), Volatile Solids, and other analytical parameters.

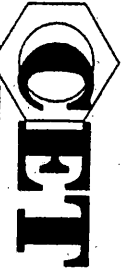
NOTES: Set P3

Project Information section with fields for Project Name, Location, Project #, and Collector(s).

QA/QC section with checkboxes for Data Report, RSR Reporting Limits, Laboratory Certification, and Temp Upon Receipt.

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.





COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client:

CET:

Additional Analysis

TOTAL # OF CONT.

NOTE #

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

Sample ID/Sample Depths
(include Units for any sample depths provided)

Collection Date/Time

Matrix: A-Air, S-Soil, W-Water, DW-Drinking Water, C-Castorene, Solid, Wipe, Other (Specify)
Turnaround Time (check one): Same Day, Next Day, Two Day, Three Day, Std (5-7 Days)

Table with columns for Sample ID, Collection Date/Time, Matrix, Turnaround Time, and various chemical analysis categories (Metals, Pesticides, etc.).

PRESERVATIVE (Cl-HCl, N-HNO3, S-H2SO4, Na-NaOH, C=Cool, O-Other)
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)

RELINQUISHED BY: DATE/TIME RECEIVED BY:
RELINQUISHED BY: DATE/TIME RECEIVED BY:
RELINQUISHED BY: DATE/TIME RECEIVED BY:

Client / Reporting Information

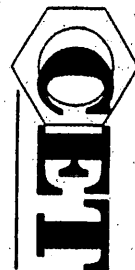
Company Name: HCONIS
Address: 75 Gilew Rd, Suite 305
City: Spring Hook, State: CT, Zip: 06482
Report To: Lynn Morrow, E-mail: lynn.morrow@hconis.com
Phone #: 203-514-4515, Fax #: [blank]

Table with columns for various chemical analysis categories (Metals, Pesticides, etc.) and checkboxes for specific tests.

NOTES: AT-DPP/RAW Analysis 4/11/19 for [blank]
SEE PG 3

Project Information:
Project: Warming Hot Recovery
Location: Dredging
Project #: AT122711.0000.0000/
CET Quote #: [blank]
Collector(s): [blank]

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.
REV: 12/18



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client:

CET:

Additional Analysis

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

Sample ID/Sample Depths
(Include Units for any sample depths provided)

Collection Date/Time

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

Turnaround Time \*\*
(check one)
Same Day \*
Next Day \*
Two Day \*
Three Day \*
Std (5-7 Days)

- 8260 CT List
8260 Aromatics
8260 Halogens
CT ETPH
8270 CT List
8270 PNAs
PCBs SOX ASE
Pesticides
8 RCRA
13 Priority Poll
15 CT DEP
Total Hg
SPLP
TCLP
Dissolved
Field Filtered
Lab to Filter

TOTAL # OF CONT.
NOTE #

Table with columns for Sample ID, Collection Date, Matrix, Turnaround Time, and various test lists.

PRESERVATIVE (G-HCl, N-HNO3, S-H2SO4, Na-NaOH, C-Cool, O-Other)
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)

Soil VOCs Only (M-MeOH, B-Bisulfate, Empty Vial, E-Encore)

RELOUNCHED BY: DATE/TIME RECEIVED BY:
RELOUNCHED BY: DATE/TIME RECEIVED BY:

RELINQUISHED BY: DATE/TIME RECEIVED BY:

Client / Reporting Information

Form fields for Client / Reporting Information including Company Name, Address, City, State, ZIP, Report To, Phone #, Fax #, and Email.

Project Information

Project: FORM MONTAGNY HTS EMP# 1412711, 0002, 0002/
Location: Drinking Project #: 1412711, 0002, 0002/

Project Quote #: Collector(s):

QA/QC Data Report RSR Reporting Limits Laboratory Certification Needed Temp Upon Receipt

Evidence of Cooling: N

Notes: 1) OSE PL-6 AS SITE SPECIFIC MS/MSD ADDITIONAL ANALYSIS 4/11/19

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.

80 Lupes Drive  
Stratford, CT 06615



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

Client: Mr. Paul Natoli  
Arcadis, Inc.  
75 Glen Road, Ste 305  
Sandy Hook, CT 06482

# Analytical Report

## CET# 9040312

Report Date: April 15, 2019  
Project: Mallory Hat Factory, Danbury  
Project Number: HT212

Connecticut Laboratory Certificate: PH 0116  
Massachusetts Laboratory Certificate: M-CT903  
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982  
Pennsylvania Certificate: 68-02927

CET #:9040312

Project: Mallory Hat Factory, Danbury

Project Number: HT212

**SAMPLE SUMMARY**

The sample(s) were received at 4.8°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
MW-2	9040312-01	Water	4/09/2019	04/10/2019
MW-3	9040312-02	Water	4/09/2019	04/10/2019

CET #:9040312

Project: Mallory Hat Factory, Danbury

Project Number: HT212

## Client Sample ID MW-2

Lab ID: 9040312-01

## Conn. Extractable TPH

Analyst: KER

## Method: CT-ETPH

Matrix: Water

Analyte	Result (mg/L)	RL (mg/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	2.3	0.13	1	EPA 3510C	B9D1111	04/11/2019	04/12/2019 07:31	R
<i>Surrogate: Octacosane</i>	<i>109 %</i>	<i>50 - 150</i>			B9D1111	04/11/2019	<i>04/12/2019 07:31</i>	

R #2 fuel oil or possibly #4 fuel oil , C9-C36 range

## Volatile Organics

Analyst: TWF

## Method: EPA 8260C

Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
1,1,1-Trichloroethane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
1,1,2,2-Tetrachloroethane	ND	0.50	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
1,1,2-Trichloroethane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
1,1-Dichloroethane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
1,1-Dichloroethene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
1,1-Dichloropropene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
1,2,3-Trichlorobenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	*C1
1,2,3-Trichloropropane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
1,2,4-Trichlorobenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	*C1
1,2,4-Trimethylbenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
1,2-Dibromo-3-Chloropropane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
1,2-Dibromoethane	ND	0.50	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
1,2-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
1,2-Dichloroethane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
1,2-Dichloropropane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	

CET #:9040312

Project: Mallory Hat Factory, Danbury

Project Number: HT212

## Client Sample ID MW-2

Lab ID: 9040312-01

## Volatile Organics

Analyst: TWF

Method: EPA 8260C

Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
1,3,5-Trimethylbenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
1,3-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
1,3-Dichloropropane	ND	0.50	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	*C2
1,4-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
2,2-Dichloropropane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
2-Butanone (MEK)	ND	25	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
2-Chlorotoluene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
2-Hexanone	ND	25	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	*C2
4-Chlorotoluene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
4-Isopropyltoluene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Acetone	ND	50	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Acrylonitrile	ND	0.50	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	*C2
Benzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Bromobenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Bromochloromethane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	*C2
Bromodichloromethane	ND	0.50	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Bromoform	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Bromomethane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	*F2*C2
Carbon Disulfide	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Carbon Tetrachloride	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Chlorobenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Chloroethane	ND	5.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Chloroform	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	

Complete Environmental Testing, Inc.

80 Lupes Drive, Stratford, CT 06615 • Tel: 203-377-9984 • Fax: 203-377-9952 • www.cetlabs.com

Page 4 of 21

CET #:9040312

Project: Mallory Hat Factory, Danbury

Project Number: HT212

## Client Sample ID MW-2

Lab ID: 9040312-01

## Volatile Organics

Analyst: TWF

Method: EPA 8260C

Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Chloromethane	ND	2.7	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
cis-1,2-Dichloroethene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	*C2
cis-1,3-Dichloropropene	ND	0.50	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Dibromochloromethane	ND	0.50	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Dibromomethane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Dichlorodifluoromethane	ND	10	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Ethylbenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Hexachlorobutadiene	ND	0.45	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	*C1
<b>Isopropylbenzene</b>	<b>1.4</b>	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
m+p Xylenes	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Methyl Isobutyl Ketone	ND	25	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	*C2
Methylene Chloride	ND	5.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Naphthalene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	*C1
n-Butylbenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
<b>n-Propylbenzene</b>	<b>1.9</b>	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
o-Xylene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
sec-Butylbenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Styrene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
tert-Butylbenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Tetrachloroethene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Tetrahydrofuran	ND	5.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Toluene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	

CET #:9040312

Project: Mallory Hat Factory, Danbury

Project Number: HT212

**Client Sample ID MW-2**

**Lab ID: 9040312-01**

**Volatile Organics**  
**Method: EPA 8260C**

**Analyst: TWF**

**Matrix: Water**

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
trans-1,2-Dichloroethene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
trans-1,3-Dichloropropene	ND	0.50	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
trans-1,4-Dichloro-2-Butene	ND	10	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Trichloroethene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Trichlorofluoromethane	ND	25	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Trichlorotrifluoroethane	ND	25	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
Vinyl Chloride	ND	1.6	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:11	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>99.5 %</i>	<i>70 - 130</i>			B9D1215	04/12/2019	<i>04/12/2019 13:11</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>107 %</i>	<i>70 - 130</i>			B9D1215	04/12/2019	<i>04/12/2019 13:11</i>	
<i>Surrogate: Toluene-d8</i>	<i>101 %</i>	<i>70 - 130</i>			B9D1215	04/12/2019	<i>04/12/2019 13:11</i>	



CET #:9040312

Project: Mallory Hat Factory, Danbury

Project Number: HT212

## Client Sample ID MW-3

Lab ID: 9040312-02

## Conn. Extractable TPH

Analyst: KER

## Method: CT-ETPH

Matrix: Water

Analyte	Result (mg/L)	RL (mg/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	2.3	0.15	1	EPA 3510C	B9D1111	04/11/2019	04/12/2019 07:54	R
<i>Surrogate: Octacosane</i>	<i>114 %</i>	<i>50 - 150</i>			B9D1111	04/11/2019	<i>04/12/2019 07:54</i>	

R #2 fuel oil or possibly #4 fuel oil , C9-C36 range

## Volatile Organics

Analyst: TWF

## Method: EPA 8260C

Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
1,1,1-Trichloroethane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
1,1,2,2-Tetrachloroethane	ND	0.50	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
1,1,2-Trichloroethane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
1,1-Dichloroethane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
1,1-Dichloroethene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
1,1-Dichloropropene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
1,2,3-Trichlorobenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	*C1
1,2,3-Trichloropropane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
1,2,4-Trichlorobenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	*C1
1,2,4-Trimethylbenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
1,2-Dibromo-3-Chloropropane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
1,2-Dibromoethane	ND	0.50	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
1,2-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
1,2-Dichloroethane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
1,2-Dichloropropane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	

CET #:9040312

Project: Mallory Hat Factory, Danbury

Project Number: HT212

## Client Sample ID MW-3

Lab ID: 9040312-02

## Volatile Organics

Analyst: TWF

Method: EPA 8260C

Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
1,3,5-Trimethylbenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
1,3-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
1,3-Dichloropropane	ND	0.50	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	*C2
1,4-Dichlorobenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
2,2-Dichloropropane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
2-Butanone (MEK)	ND	25	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
2-Chlorotoluene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
2-Hexanone	ND	25	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	*C2
4-Chlorotoluene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
4-Isopropyltoluene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Acetone	ND	50	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Acrylonitrile	ND	0.50	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	*C2
<b>Benzene</b>	<b>9.4</b>	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Bromobenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Bromochloromethane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	*C2
Bromodichloromethane	ND	0.50	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Bromoform	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Bromomethane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	*F2*C2
Carbon Disulfide	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Carbon Tetrachloride	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Chlorobenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Chloroethane	ND	5.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Chloroform	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	

CET #:9040312

Project: Mallory Hat Factory, Danbury

Project Number: HT212

## Client Sample ID MW-3

Lab ID: 9040312-02

## Volatile Organics

Analyst: TWF

Method: EPA 8260C

Matrix: Water

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Chloromethane	ND	2.7	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
cis-1,2-Dichloroethene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	*C2
cis-1,3-Dichloropropene	ND	0.50	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Dibromochloromethane	ND	0.50	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Dibromomethane	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Dichlorodifluoromethane	ND	10	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Ethylbenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Hexachlorobutadiene	ND	0.45	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	*C1
<b>Isopropylbenzene</b>	<b>4.4</b>	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
m+p Xylenes	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Methyl Isobutyl Ketone	ND	25	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	*C2
Methylene Chloride	ND	5.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Naphthalene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	*C1
<b>n-Butylbenzene</b>	<b>1.2</b>	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
<b>n-Propylbenzene</b>	<b>5.3</b>	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
<b>o-Xylene</b>	<b>2.8</b>	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
<b>sec-Butylbenzene</b>	<b>1.7</b>	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Styrene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
tert-Butylbenzene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Tetrachloroethene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Tetrahydrofuran	ND	5.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
<b>Toluene</b>	<b>4.1</b>	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	

CET #:9040312

Project: Mallory Hat Factory, Danbury

Project Number: HT212

**Client Sample ID MW-3**

**Lab ID: 9040312-02**

**Volatile Organics**

**Method: EPA 8260C**

**Analyst: TWF**

**Matrix: Water**

Analyte	Result (ug/L)	RL (ug/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
trans-1,2-Dichloroethene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
trans-1,3-Dichloropropene	ND	0.50	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
trans-1,4-Dichloro-2-Butene	ND	10	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Trichloroethene	ND	1.0	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Trichlorofluoromethane	ND	25	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Trichlorotrifluoroethane	ND	25	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
Vinyl Chloride	ND	1.6	1	EPA 5030C	B9D1215	04/12/2019	04/12/2019 13:34	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>102 %</i>	<i>70 - 130</i>			B9D1215	04/12/2019	<i>04/12/2019 13:34</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>107 %</i>	<i>70 - 130</i>			B9D1215	04/12/2019	<i>04/12/2019 13:34</i>	
<i>Surrogate: Toluene-d8</i>	<i>98.9 %</i>	<i>70 - 130</i>			B9D1215	04/12/2019	<i>04/12/2019 13:34</i>	

CET #:9040312

Project: Mallory Hat Factory, Danbury

Project Number: HT212

### QUALITY CONTROL SECTION

#### Batch B9D1111 - CT-ETPH

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9D1111-BLK1)</b>									Prepared: 4/11/2019 Analyzed: 4/12/2019
ETPH	ND	0.10							
<i>Surrogate: Octacosane</i>					112	50 - 150			
<b>LCS (B9D1111-BS1)</b>									Prepared: 4/11/2019 Analyzed: 4/12/2019
ETPH	0.570	0.10	0.500		114	60 - 120			
<i>Surrogate: Octacosane</i>					111	50 - 150			
<b>LCS Dup (B9D1111-BSD1)</b>									Prepared: 4/11/2019 Analyzed: 4/12/2019
ETPH	0.585	0.10	0.500		117	60 - 120	2.57	30	
<i>Surrogate: Octacosane</i>					120	50 - 150			

CET #:9040312

Project: Mallory Hat Factory, Danbury

Project Number: HT212

## Batch B9D1215 - EPA 8260C

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9D1215-BLK1)</b>									
					Prepared: 4/12/2019 Analyzed: 4/12/2019				
Dichlorodifluoromethane	ND	10							
Chloromethane	ND	2.7							
Vinyl Chloride	ND	1.6							
Bromomethane	ND	1.0							
Chloroethane	ND	5.0							
Trichlorofluoromethane	ND	25							
Acetone	ND	50							
Acrylonitrile	ND	0.50							
Trichlorotrifluoroethane	ND	25							
1,1-Dichloroethene	ND	1.0							
Methylene Chloride	ND	5.0							
Carbon Disulfide	ND	1.0							
Methyl-t-Butyl Ether (MTBE)	ND	5.0							
trans-1,2-Dichloroethene	ND	1.0							
1,1-Dichloroethane	ND	1.0							
2-Butanone (MEK)	ND	25							
2,2-Dichloropropane	ND	1.0							
cis-1,2-Dichloroethene	ND	1.0							
Bromochloromethane	ND	1.0							
Chloroform	ND	1.0							
Tetrahydrofuran	ND	5.0							
1,1,1-Trichloroethane	ND	1.0							
Carbon Tetrachloride	ND	1.0							
1,1-Dichloropropene	ND	1.0							
Benzene	ND	1.0							
1,2-Dichloroethane	ND	1.0							
Trichloroethene	ND	1.0							
1,2-Dichloropropane	ND	1.0							
Dibromomethane	ND	1.0							
Bromodichloromethane	ND	0.50							
Methyl Isobutyl Ketone	ND	25							
cis-1,3-Dichloropropene	ND	0.50							
Toluene	ND	1.0							
trans-1,3-Dichloropropene	ND	0.50							
2-Hexanone	ND	25							
1,1,2-Trichloroethane	ND	1.0							
Tetrachloroethene	ND	1.0							
1,3-Dichloropropane	ND	0.50							
Dibromochloromethane	ND	0.50							
1,2-Dibromoethane	ND	0.50							
trans-1,4-Dichloro-2-Butene	ND	10							
Chlorobenzene	ND	1.0							
1,1,1,2-Tetrachloroethane	ND	1.0							
Ethylbenzene	ND	1.0							
m+p Xylenes	ND	1.0							
o-Xylene	ND	1.0							
Styrene	ND	1.0							
Bromoform	ND	1.0							
Isopropylbenzene	ND	1.0							
1,1,2,2-Tetrachloroethane	ND	0.50							
Bromobenzene	ND	1.0							

CET #:9040312

Project: Mallory Hat Factory, Danbury

Project Number: HT212

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
<b>Blank (B9D1215-BLK1) - Continued</b>					Prepared: 4/12/2019 Analyzed: 4/12/2019				
1,2,3-Trichloropropane	ND	1.0							
n-Propylbenzene	ND	1.0							
2-Chlorotoluene	ND	1.0							
4-Chlorotoluene	ND	1.0							
1,3,5-Trimethylbenzene	ND	1.0							
tert-Butylbenzene	ND	1.0							
1,2,4-Trimethylbenzene	ND	1.0							
sec-Butylbenzene	ND	1.0							
1,3-Dichlorobenzene	ND	1.0							
4-Isopropyltoluene	ND	1.0							
1,4-Dichlorobenzene	ND	1.0							
1,2-Dichlorobenzene	ND	1.0							
n-Butylbenzene	ND	1.0							
1,2-Dibromo-3-Chloropropane	ND	1.0							
1,2,4-Trichlorobenzene	ND	1.0							
Hexachlorobutadiene	ND	0.45							
Naphthalene	ND	1.0							
1,2,3-Trichlorobenzene	ND	1.0							

Surrogate: 1,2-Dichloroethane-d4

101 70 - 130

Surrogate: Toluene-d8

101 70 - 130

Surrogate: 4-Bromofluorobenzene

106 70 - 130

**LCS (B9D1215-BS1)**

Prepared: 4/12/2019 Analyzed: 4/12/2019

Dichlorodifluoromethane	48.1	10	50.000	96.2	70 - 130	
Chloromethane	59.0	2.7	50.000	118	70 - 130	
Vinyl Chloride	59.2	1.6	50.000	118	70 - 130	
Bromomethane	73.6	1.0	50.000	147	70 - 130	H
Chloroethane	55.9	5.0	50.000	112	70 - 130	
Trichlorofluoromethane	54.3	25	50.000	109	70 - 130	
Acetone	90.8	50	100.000	90.8	70 - 130	
Acrylonitrile	64.4	0.50	50.000	129	70 - 130	
Trichlorotrifluoroethane	58.2	25	50.000	116	70 - 130	
1,1-Dichloroethene	53.4	1.0	50.000	107	70 - 130	
Methylene Chloride	55.8	5.0	50.000	112	70 - 130	
Carbon Disulfide	53.1	1.0	50.000	106	70 - 130	
Methyl-t-Butyl Ether (MTBE)	55.4	5.0	50.000	111	70 - 130	
trans-1,2-Dichloroethene	59.9	1.0	50.000	120	70 - 130	
1,1-Dichloroethane	59.8	1.0	50.000	120	70 - 130	
2-Butanone (MEK)	114	25	100.000	114	70 - 130	
2,2-Dichloropropane	56.7	1.0	50.000	113	70 - 130	
cis-1,2-Dichloroethene	61.5	1.0	50.000	123	70 - 130	
Bromochloromethane	64.6	1.0	50.000	129	70 - 130	
Chloroform	58.7	1.0	50.000	117	70 - 130	
Tetrahydrofuran	59.9	5.0	50.000	120	70 - 130	
1,1,1-Trichloroethane	54.7	1.0	50.000	109	70 - 130	
Carbon Tetrachloride	54.3	1.0	50.000	109	70 - 130	
1,1-Dichloropropene	55.3	1.0	50.000	111	70 - 130	
Benzene	55.6	1.0	50.000	111	70 - 130	
1,2-Dichloroethane	59.7	1.0	50.000	119	70 - 130	
Trichloroethene	54.4	1.0	50.000	109	70 - 130	
1,2-Dichloropropane	58.5	1.0	50.000	117	70 - 130	
Dibromomethane	56.4	1.0	50.000	113	70 - 130	
Bromodichloromethane	59.3	0.50	50.000	119	70 - 130	

Complete Environmental Testing, Inc.

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Project: Mallory Hat Factory, Danbury

Project Number: HT212

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>LCS (B9D1215-BS1) - Continued</b>					Prepared: 4/12/2019 Analyzed: 4/12/2019				
Methyl Isobutyl Ketone	129	25	100.000		129	70 - 130			
cis-1,3-Dichloropropene	56.1	0.50	50.000		112	70 - 130			
Toluene	55.5	1.0	50.000		111	70 - 130			
trans-1,3-Dichloropropene	54.7	0.50	50.000		109	70 - 130			
2-Hexanone	124	25	100.000		124	70 - 130			
1,1,2-Trichloroethane	59.5	1.0	50.000		119	70 - 130			
Tetrachloroethene	59.3	1.0	50.000		119	70 - 130			
1,3-Dichloropropane	63.9	0.50	50.000		128	70 - 130			
Dibromochloromethane	50.1	0.50	50.000		100	70 - 130			
1,2-Dibromoethane	52.5	0.50	50.000		105	70 - 130			
trans-1,4-Dichloro-2-Butene	46.2	10	50.000		92.4	70 - 130			
Chlorobenzene	49.5	1.0	50.000		99.0	70 - 130			
1,1,1,2-Tetrachloroethane	47.8	1.0	50.000		95.6	70 - 130			
Ethylbenzene	49.5	1.0	50.000		98.9	70 - 130			
m+p Xylenes	102	1.0	100.000		102	70 - 130			
o-Xylene	49.5	1.0	50.000		99.0	70 - 130			
Styrene	52.3	1.0	50.000		105	70 - 130			
Bromoform	53.4	1.0	50.000		107	70 - 130			
Isopropylbenzene	48.5	1.0	50.000		96.9	70 - 130			
1,1,2,2-Tetrachloroethane	58.7	0.50	50.000		117	70 - 130			
Bromobenzene	48.8	1.0	50.000		97.6	70 - 130			
1,2,3-Trichloropropane	48.7	1.0	50.000		97.4	70 - 130			
n-Propylbenzene	49.9	1.0	50.000		99.7	70 - 130			
2-Chlorotoluene	47.8	1.0	50.000		95.5	70 - 130			
4-Chlorotoluene	48.9	1.0	50.000		97.7	70 - 130			
1,3,5-Trimethylbenzene	48.2	1.0	50.000		96.4	70 - 130			
tert-Butylbenzene	45.4	1.0	50.000		90.7	70 - 130			
1,2,4-Trimethylbenzene	48.9	1.0	50.000		97.9	70 - 130			
sec-Butylbenzene	47.6	1.0	50.000		95.1	70 - 130			
1,3-Dichlorobenzene	47.8	1.0	50.000		95.7	70 - 130			
4-Isopropyltoluene	47.4	1.0	50.000		94.8	70 - 130			
1,4-Dichlorobenzene	48.1	1.0	50.000		96.3	70 - 130			
1,2-Dichlorobenzene	47.2	1.0	50.000		94.4	70 - 130			
n-Butylbenzene	47.6	1.0	50.000		95.3	70 - 130			
1,2-Dibromo-3-Chloropropane	46.8	1.0	50.000		93.6	70 - 130			
1,2,4-Trichlorobenzene	38.9	1.0	50.000		77.8	70 - 130			
Hexachlorobutadiene	37.4	0.45	50.000		74.8	70 - 130			
Naphthalene	39.3	1.0	50.000		78.5	70 - 130			
1,2,3-Trichlorobenzene	37.1	1.0	50.000		74.2	70 - 130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>					<i>104</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>					<i>102</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>					<i>103</i>	<i>70 - 130</i>			





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## Quality Control Definitions and Abbreviations

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

### Flags:

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



Connecticut Laboratory Certification PH0116  
Massachusetts Laboratory Certification M-CT903

New York NELAP Accreditation 11982  
Rhode Island Certification 199

CET #:9040312

Project: Mallory Hat Factory, Danbury

Project Number: HT212

### CASE NARRATIVE

No collection times provided by client on chain of custody for the following samples: 9040312-01 & -02.

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

Sincerely,

This technical report was reviewed by Timothy Fusco



David Ditta  
Laboratory Director



Project Manager

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- \*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- \*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- \*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- \*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- \*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.

## CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications
<i>CT-ETPH in Water</i>	
ETPH	CT
<i>EPA 8260C in Water</i>	
Dichlorodifluoromethane	CT,NY
Chloromethane	CT,NY
Vinyl Chloride	CT,NY
Bromomethane	CT,NY
Chloroethane	CT,NY
Trichlorofluoromethane	CT,NY
Acetone	CT,NY
Acrylonitrile	CT
Trichlorotrifluoroethane	CT,NY
1,1-Dichloroethene	CT,NY
Methylene Chloride	CT,NY
Carbon Disulfide	CT,NY
Methyl-t-Butyl Ether (MTBE)	CT,NY
trans-1,2-Dichloroethene	CT,NY
1,1-Dichloroethane	CT,NY
2-Butanone (MEK)	CT,NY
2,2-Dichloropropane	CT,NY
cis-1,2-Dichloroethene	CT,NY
Bromochloromethane	CT,NY
Chloroform	CT,NY
Tetrahydrofuran	CT
1,1,1-Trichloroethane	CT,NY
Carbon Tetrachloride	CT,NY
1,1-Dichloropropene	CT,NY
Benzene	CT,NY
1,2-Dichloroethane	CT,NY
Trichloroethene	CT,NY
1,2-Dichloropropane	CT,NY
Dibromomethane	CT,NY
Bromodichloromethane	CT,NY
Methyl Isobutyl Ketone	CT,NY
cis-1,3-Dichloropropene	CT,NY
Toluene	CT,NY
trans-1,3-Dichloropropene	CT,NY
2-Hexanone	CT,NY
1,1,2-Trichloroethane	CT,NY
Tetrachloroethene	CT,NY
1,3-Dichloropropane	CT,NY
Dibromochloromethane	CT,NY
1,2-Dibromoethane	CT,NY

CET #:9040312

Project: Mallory Hat Factory, Danbury

Project Number: HT212

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 8260C in Water</i>	
trans-1,4-Dichloro-2-Butene	CT,NY
Chlorobenzene	CT,NY
1,1,1,2-Tetrachloroethane	CT,NY
Ethylbenzene	CT,NY
m+p Xylenes	CT,NY
o-Xylene	CT,NY
Styrene	CT,NY
Bromoform	CT,NY
Isopropylbenzene	CT,NY
1,1,2,2-Tetrachloroethane	CT,NY
Bromobenzene	CT,NY
1,2,3-Trichloropropane	CT,NY
n-Propylbenzene	CT,NY
2-Chlorotoluene	CT,NY
4-Chlorotoluene	CT,NY
1,3,5-Trimethylbenzene	CT,NY
tert-Butylbenzene	CT,NY
1,2,4-Trimethylbenzene	CT,NY
sec-Butylbenzene	CT,NY
1,3-Dichlorobenzene	CT,NY
4-Isopropyltoluene	CT,NY
1,4-Dichlorobenzene	CT,NY
1,2-Dichlorobenzene	CT,NY
n-Butylbenzene	CT,NY
1,2-Dibromo-3-Chloropropane	CT,NY
1,2,4-Trichlorobenzene	CT,NY
Hexachlorobutadiene	CT,NY
Naphthalene	CT,NY
1,2,3-Trichlorobenzene	CT,NY

CET #:9040312

Project: Mallory Hat Factory, Danbury

Project Number: HT212

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2020
NY	New York Certification (NELAC)	11982	04/01/2020



9040312



COMPLETE ENVIRONMENTAL TESTING, INC.

# CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client:

CET:

Additional Analysis

80 Lupes Drive  
Stratford, CT 06615

Tel: (203) 377-9984  
Fax: (203) 377-9952  
e-mail: cet-services@celabs.com  
e-mail: bottleorders@celabs.com

**Sample ID/Sample Depths**  
(Include Units for any sample depths provided)

**Collection Date/Time**  
Matrix: A=Air, S=Soil, W=Water, DW=Drinking Water, C=Caseselle Solid, Wipe, Other (Specify)  
Turnaround Time \*\* (check one)  
Same Day \*  
Next Day \*  
Two Day \*  
Three Day \*  
Std (5-7 Days)

MW-3  
MW-3  
4/9/19  
4/9/19  
W

8260 CT List	X
8260 Aromatics	X
8260 Halogens	X
CT ETPH	X
8270 CT List	X
8270 PNAs	X
PCBs <input type="checkbox"/> SOX <input type="checkbox"/> ASE	
Pesticides	
8 RCRA	
13 Priority Poll	
15 CT DEP	
Total	
SPLP	
TCLP	
Dissolved	
Field Filtered	
Lab to Filter	
Metals	

TOTAL # OF CONT.	31
NOTE #	31

PRESERVATIVE (Cl-HCl, N-HNO<sub>3</sub>, S-H<sub>2</sub>SO<sub>4</sub>, Na-NaOH, C=Cool, O-Other)  
CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)  
Soil VOCs Only (M=MeOH, B=Bisulfate, W=Water, F=Empty Vial, E=Encore)

RELINQUISHED BY: [Signature] DATE/TIME: 4/10/19 10:30 AM RECEIVED BY: [Signature]  
RELINQUISHED BY: [Signature] DATE/TIME: 4/10/19 13:00 PM RECEIVED BY: [Signature]

**Client / Reporting Information**  
Company Name: Atwoods  
Address: 75 Glen Rd State: SO Zip: 06482  
City: Somew Hook State: CT E-mail: [blank]  
Report to: Fred Morrow E-mail: [blank]  
Phone #: 203-514-4516 Fax #: [blank]

**NOTES:**  
1 Average (100%) TPH sample out to volume + 100% impurities for both samples.

**Project Information**  
Project: Maryland Hot Facility PO #: [blank]  
Location: Dorsey Project #: H1212  
CET Quote #: [blank] Collector(s): [blank]  
QA/QC:  Std  Site Specific (MS/MSD) \*  RCP Pkg \*  DQAW \*  
Data Report:  PDF  EDD - Specify Format  Other  
RSR Reporting Limits (check one)  GA  GB  SWP  Other  
Laboratory Certification Needed (check one)  CT  NY  RI  MA  PA  
Temp Upon Receipt: 4°C Evidence of Cooling:  N  P  
PAGE 1 OF 1

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.

Client: Mr. Paul Natoli  
Arcadis, Inc.  
75 Glen Road, Ste 305  
Sandy Hook, CT 06482

# Analytical Report

## CET# 9040697



Report Date: May 01, 2019  
Project: Former Mallory Hat Factory, Danbury  
Project Number: HT212711.0000.00001  
PO Number: HT212711.0000.00001

Connecticut Laboratory Certificate: PH 0116  
Massachusetts Laboratory Certificate: M-CT903  
Rhode Island Laboratory Certificate: 199



New York NELAP Accreditation: 11982  
Pennsylvania Certificate: 68-02927



CET #:9040697

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

**SAMPLE SUMMARY**

The sample(s) were received at 4.8°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
LD-2 4ft	9040697-01	Soil	4/09/2019	04/24/2019
LD-3 4ft	9040697-02	Soil	4/09/2019	04/24/2019
PL-1 4ft	9040697-03	Soil	4/09/2019	04/24/2019
PL-3 4ft	9040697-04	Soil	4/09/2019	04/24/2019
PL-5 4ft	9040697-05	Soil	4/09/2019	04/24/2019
PL-7 4ft	9040697-06	Soil	4/09/2019	04/24/2019
PL-8 4ft	9040697-07	Soil	4/09/2019	04/24/2019

**Analyte: SPLP Mercury [EPA 7470A]**

**Analyst: PJB**

**Matrix: Extract**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
9040697-01	LD-2 4ft	0.025	0.020	mg/L	10	B9D3025	04/30/2019	04/30/2019 13:19	
9040697-02	LD-3 4ft	0.077	0.020	mg/L	10	B9D3025	04/30/2019	04/30/2019 13:35	
9040697-03	PL-1 4ft	0.062	0.020	mg/L	10	B9D3025	04/30/2019	04/30/2019 13:40	
9040697-04	PL-3 4ft	0.0038	0.0020	mg/L	1	B9D3025	04/30/2019	04/30/2019 14:12	
9040697-05	PL-5 4ft	ND	0.0020	mg/L	1	B9D3025	04/30/2019	04/30/2019 14:15	
9040697-06	PL-7 4ft	0.015	0.010	mg/L	5	B9D3025	04/30/2019	04/30/2019 14:17	
9040697-07	PL-8 4ft	0.011	0.0040	mg/L	2	B9D3025	04/30/2019	04/30/2019 14:28	

CET #:9040697

Project: Former Mallory Hat Factory, Danbury

Project Number: HT212711.0000.00001

### QUALITY CONTROL SECTION

#### Batch B9D3025 - EPA 7470A

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
<b>Blank (B9D3025-BLK1)</b>									Prepared: 4/30/2019 Analyzed: 4/30/2019
Mercury	ND	0.0020							
<b>LCS (B9D3025-BS1)</b>									Prepared: 4/30/2019 Analyzed: 4/30/2019
Mercury	0.00496	0.0020	0.005		99.2	80 - 120			
<b>Duplicate (B9D3025-DUP1)</b>									Prepared: 4/30/2019 Analyzed: 4/30/2019
Mercury	0.0237	0.020		0.0246			3.73	20	

#### CASE NARRATIVE

No collection times provided by client on chain of custody for the following samples: 9040697-01 through -07.

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

Sincerely,

This technical report was reviewed by Timothy Fusco



David Ditta  
Laboratory Director



Project Manager

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- \*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- \*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- \*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- \*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- \*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.



80 Lupes Drive  
Stratford, CT 06615

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

### Quality Control Definitions and Abbreviations

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

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



Connecticut Laboratory Certification PH0116  
Massachusetts Laboratory Certification M-CT903

New York NELAP Accreditation 11982  
Rhode Island Certification 199



## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

**Client:** Arcadis, Sandy Hook CT

**Project Location:** Former Mallory Hat Factory, Danbury

**Project Number:** HT212711.0000.00001

**Laboratory Sample ID(s):**  
9040697-01 thru 9040697-07

**Sample Date(s):**  
04/09/2019

**List RCP Methods Used:**  
EPA 1312, EPA 7470A

**CET #:** 9040697

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

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

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

**Authorized Signature:**

**Position:** Laboratory Director

**Printed Name:** David Ditta

**Date:** 05/01/2019

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

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

## RCP Case Narrative

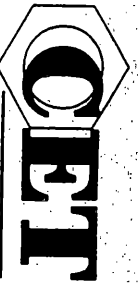
7- Project specific QC was not requested by the client.

### QC Batch/Sequence Report

<b>Batch</b>	<b>Sequence</b>	<b>CET ID</b>	<b>Sample ID</b>	<b>Specific Method</b>	<b>Matrix</b>	<b>Collection Date</b>
B9D3020		9040697-01	LD-2 4ft	EPA 1312	Soil	04/09/2019
B9D3020		9040697-02	LD-3 4ft	EPA 1312	Soil	04/09/2019
B9D3020		9040697-03	PL-1 4ft	EPA 1312	Soil	04/09/2019
B9D3020		9040697-04	PL-3 4ft	EPA 1312	Soil	04/09/2019
B9D3020		9040697-05	PL-5 4ft	EPA 1312	Soil	04/09/2019
B9D3020		9040697-06	PL-7 4ft	EPA 1312	Soil	04/09/2019
B9D3020		9040697-07	PL-8 4ft	EPA 1312	Soil	04/09/2019
B9D3025		9040697-01	LD-2 4ft	EPA 7470A	Soil	04/09/2019
B9D3025		9040697-02	LD-3 4ft	EPA 7470A	Soil	04/09/2019
B9D3025		9040697-03	PL-1 4ft	EPA 7470A	Soil	04/09/2019
B9D3025		9040697-04	PL-3 4ft	EPA 7470A	Soil	04/09/2019
B9D3025		9040697-05	PL-5 4ft	EPA 7470A	Soil	04/09/2019
B9D3025		9040697-06	PL-7 4ft	EPA 7470A	Soil	04/09/2019
B9D3025		9040697-07	PL-8 4ft	EPA 7470A	Soil	04/09/2019



9040697



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

80 Lupes Drive  
Stratford, CT 06615

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

Matrix  
A=Air S=Soil W=Water  
D=Drinking Water  
C=Cassette  
S=Solid  
W=Wipe  
Other (Specify)

Turnaround Time \*\*  
(check one)

- 8260 CT List
- 8260 Aromatics
- 8260 Halogens
- CT ETPH
- 8270 CT List
- 8270 PNAs
- PCBs  SOX  ASE
- Pesticides
- 8 RCRA
- 13 Priority Poll
- 15 CT DEP
- Total
- SPLP
- TCLP
- Dissolved
- Field Filtered
- Lab to Filter

Metals

Additional Analysis

TOTAL # OF CONT.  
NOTE #

Volatile Soils Only:

Date and Time in Freezer

Client:

CET:

Sample ID/Sample Depths  
(include Units for any sample depths provided)

Collection Date/Time

Sample ID/Sample Depths	Collection Date/Time	Matrix	Turnaround Time
PL-4 (4')	4/11/19	S	Same Day * Next Day * Two Day * Three Day * Std (5-7 Days)
PL-5 (0-2)			
PL-5 (4')			
PL-6 (0-2)			
PL-6 (4')			
PL-7 (0-2)			
PL-7 (4')			
PL-8 (0-2)			
PL-8 (4')			
DS-SEA		S	

PRESERVATIVE (C=HCl, N=HNO<sub>3</sub>, S=H<sub>2</sub>SO<sub>4</sub>, Na=NaOH, C=Cool, O=Other)

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

Soil VOCs Only (M=MeOH B=Bisulfate W=Water F=Empy E=Encore)

RELINQUISHED BY: DATE/TIME RECEIVED BY: DATE/TIME

RELINQUISHED BY: DATE/TIME RECEIVED BY: DATE/TIME

Client / Reporting Information

Company Name

Address

City State ZIP

Report To: E-mail

Phone # Fax #

Additional Analysis

NOTES:

USE PL-6 AS SITE SPECIFIC MS/MSD  
ADD. ANALYSIS 4/11/19  
ADD. ANALYSIS 4/22/19

Project Information

Project: FORMER MARIJUANA HUT

Location: DUNBURY

Project #: H1212711.0000.00001

Project #: H1212711.0000.00001

QA/QC  Std  Site Specific (MS/MSD) \*  HOP Pkg \*  DOAW \*

Data Report  PDF  EDD - Specify Format  GA  GB  SWP  RI  MA  PA

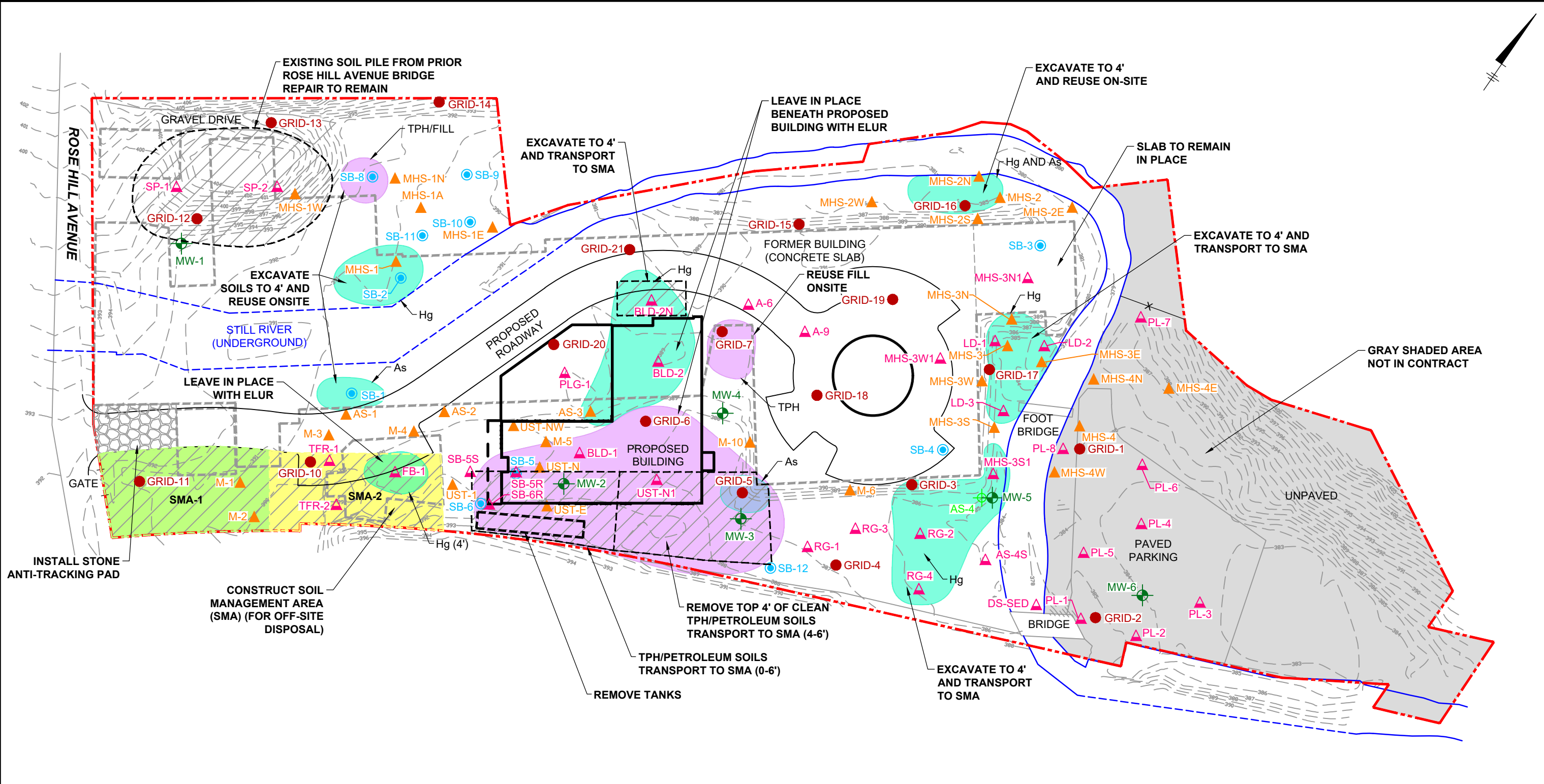
Temp Upon Receipt   Evidence of Cooling:  Y  N

Temp Upon Receipt   Evidence of Cooling:  Y  N

\* Additional charge may apply. \*\* TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.



**APPENDIX E  
REMEDIATION SITE PLAN**

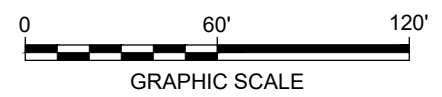


**LEGEND:**

- |  |  |      |                                    |
|--|--|------|------------------------------------|
|  | SITE BOUNDARY  |      | TOPOGRAPHIC CONTOUR LINE           |
|  | FENCE LINE   |      | TPH EXCEEDANCE                     |
|  | AREA OF CONCERN                                      |      | Hg AND/OR As EXCEEDANCES           |
|  | BORING LOCATION BASED ON GRID SYSTEM BY MARIN        |      | AREA NOT IN CONTRACT               |
|  | SELECTED BORING LOCATION BY MARIN                    |      | STONE ANTI-TRACKING PAD            |
|  | SOIL BORING BY ARCADIS                               | As   | ARSENIC                            |
|  | SOIL BORING BY ARCADIS - JANUARY 2019 AND APRIL 2019 | ELUR | ENVIRONMENTAL LAND USE RESTRICTION |
|  | TEMPORARY MONITORING WELL AND BORING BY ARCADIS      | Hg   | MERCURY                            |
|  | MONITORING WELL BY ARCADIS - JANUARY 2019            | TPH  | TOTAL PETROLEUM HYDROCARBONS       |

**SOURCES:**

- THIS DRAWING IS REFERENCED FROM "FIGURE 2: MERCURY ISOPLETH CONTOUR MAP: SHALLOW (0 TO 4 FEET) SOILS", BY MARIN ENVIRONMENTAL, DATED: JULY 1999, SCALE: 1"=80'.
- PROPOSED DEVELOPMENT FEATURES FROM A CAD FILE TITLED "1816\_To ARCADIS\_12-12-18".



FORMER MALLORY HAT FACTORY  
89 ROSE HILL AVENUE  
DANBURY, CONNECTICUT

**REMEDATION SITE PLAN WITH  
TOPOGRAPHIC CONTOURS**

**ARCADIS** Design & Consultancy  
for natural and built assets

APPENDIX  
**E**