

PROJECT MANUAL

**Excavation and Disposal of Controlled Materials
Parcel B – Area 5
NAUGATUCK, CONNECTICUT**

Contract No. FY23-B030

September 9, 2022

Borough of Naugatuck



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Borough of Naugatuck

LEGAL NOTICE

**Excavation and Disposal of Controlled Materials
Parcel B – Area 5
NAUGATUCK, CONNECTICUT
Contract No. FY23-B030**

Sealed bids will be received and opened at the Borough of Naugatuck, Town Hall, Purchasing Office, 229 Church Street, Naugatuck, CT 06770, on **Thursday, October 13, 2022, at 11:00 A.M.**, at which time and place all bids will be publicly opened via ZOOM due to COVID -19 and read aloud. Please follow link below at scheduled bid opening.

Join Zoom Meeting

<https://us06web.zoom.us/j/6782404415?pwd=eUZjRW5FdW5RT0lmQWk5anNsTkV3UT09&from=addon>

Meeting ID: 678 240 4415

Passcode: 5fY9TT

One tap mobile

+19292056099,,6782404415#,,,,*486183# US (New York)

+16465189805,,6782404415#,,,,*486183# US (New York)

Dial by your location

+1 929 205 6099 US (New York)

+1 646 518 9805 US (New York)

Meeting ID: 678 240 4415

Passcode: 486183

Find your local number: <https://us06web.zoom.us/j/6782404415?pwd=eUZjRW5FdW5RT0lmQWk5anNsTkV3UT09&from=addon>

The Contract Documents may be examined at the Office of the Purchasing Agent, Town Hall, 229 Church Street, Naugatuck, CT 06770.

Contract Documents can be obtained at no cost from the Borough of Naugatuck web site <http://www.naugatuck-ct.gov>. All bidders must check the Naugatuck web site no more than three days prior to the bid opening to check for addendums.

This contract is subject to state set aside and contract compliance requirements

The minimum rates to be paid labor of the various classifications shall be in accordance with the current schedule of wages established by the State Labor Commissioner as provided in the General Statutes of Connecticut, as revised. The Contract Wage

Certification Form is to be submitted to the Labor Commissioner before the award of the contract.

Bids must be accompanied by a certified check or Bid Bond in writing on forms provided by the Borough of Naugatuck in the amount of at least 5% of the amount of the Bid and payable to the order of the Borough of Naugatuck. The successful Bidder will be required to furnish and pay for a Performance Bond and a Payment Bond in the amount of one hundred percent (100%) of the Contract price.

The right is reserved by the Borough of Naugatuck to reject any or all Bids, to waive any informalities or defects in Bids, and to make such time extensions as may be necessary in order to review and compare Bids, to obtain such supplemental information as may be necessary to review Bids and to accept Bid(s) that, in the judgment of the Borough of Naugatuck, will be in the Borough's best interest.

No Bidder may withdraw his bid within (90) days after the actual date of the opening thereof.

“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.”

Date: September 9, 2022

Borough of Naugatuck, Connecticut

BID LANGUAGE (for DAS Contracting Portal Bid Notice)

This contract is subject to state contract compliance requirements, including non-discrimination 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.

INFORMATION FOR BIDDERS

Borough of Naugatuck

**Excavation and Disposal of Controlled Materials Parcel B – Area 5
NAUGATUCK, CONNECTICUT
Contract No. FY23-B030**

1. Proposals Received

Sealed bids for the construction of the following project will be received by the Purchasing Agent for the Borough of Naugatuck, Accounting Dept. Lobby, Town Hall, 229 Church Street, Connecticut, 06770 until **October 13, 2022 at 11:00 AM local time** after which no additional bids will be accepted.

Immediately following the above time and date sealed bids will be publicly opened and read at the Town Hall at the Borough of Naugatuck, Accounting Dept, 229 Church Street, Naugatuck, CT 06770 and read aloud via Zoom due to COVID-19.

Please follow link below to access scheduled bid opening.

Join Zoom Meeting

<https://us06web.zoom.us/j/6782404415?pwd=eUZjRW5FdW5RT0lmQWk5anNsTkV3UT09&from=addon>

Meeting ID: 678 240 4415

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Passcode: 486183

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2. Location and Description of Work

These specifications will provide a basis for providing the Borough of Naugatuck, CT with Labor and equipment to Excavate, transport, dispose of and document the disposal of approximately 350 cubic yards of Controlled/ impacted soil (PCB Remediation Waste). The site is located near the intersection of Maple Street and Old Fire House Road and 6 Rubber Ave, Naugatuck, CT 06770

3. Schedule of Construction and Time of Completion

The attention of the Bidder is called to the provisions of the General Requirements, Section 6 of the General Conditions, and requiring submittal of a schedule of operations.

The attention of the Bidder is called to the requirements of Time for Completion, Section 3 of the Supplemental Conditions for initiation and completion of the work.

The Bidder's attention is especially directed to Liquidated Damages, Section 4 of the Supplement Conditions for information about failure to complete the project on time.

4. Plans and Project Manuals

The bid document may be examined and obtained at no cost from the Borough of Naugatuck web site <http://www.naugatuck-ct.gov>. All bidders must check the Borough web site within four (4) days of the scheduled bid opening to check for addenda.

The construction contract for the Excavation and Disposal of Controlled Materials Parcel B - Area 5, NAUGATUCK, CONNECTICUT Contract No. FY23-B030, will be entered into by the successful bidder and the Borough of Naugatuck. The State of Connecticut Department of Transportation Standard Specifications for Roads, Bridges and Incidental Construction, Form 817, along with the contract drawings, supplemental specifications and special provisions contained herein will detail the general requirements for materials, methods of installation, measurement and basis of payment to be required in this project. Any references to the State of Connecticut, the Department, the commissioner, Engineer, or other terms indicating the State of Connecticut and her agents as party to the contract shall for this project mean the Borough of Naugatuck and her designated agents or employees.

Where insurance is required to be carried in the name of the State of Connecticut and the State of Connecticut is to be held harmless, this shall be done in the name of the Borough of Naugatuck and the Borough of Naugatuck shall be held harmless.

All requirements for material testing, certificates of the compliance or material certifications shall be done as if this were a contract being entered into with the State of Connecticut, shall be in accordance with Form 817.

It is the intent of this contract to maintain all standard requirements of Form 817 without attempting to redefine every term within the 817 to the "Borough of Naugatuck".

The bidder shall, therefore, be aware that the Borough of Naugatuck and its agents shall inspect and administrate this contract, make contract interpretations, determine the acceptability of the work and approve requests for payments. The Contractor shall be responsible for the requirements stated in Form 817, supplemental specifications, special provisions and in the construction drawings.

5. Addenda and Interpretations

No interpretations of the meaning of the contract documents will be made to any Bidder orally.

Every request for such interpretation shall be in writing, addressed to James Stewart, Borough of Naugatuck Department of Public Works, 246 Rubber Avenue, Naugatuck, CT 06770 or emailed to JStewart@naugatuck-ct.gov. To be given consideration, such requests must be received at least seven (7) days prior to the date fixed for the opening of bids. Any and all such interpretations and any supplemental instructions will be in the form of written addenda to the contract documents, which, if issued, will be posted to the Borough's internet page for all prospective Bidders, no later than four (4) days prior to the date fixed for the opening of bids. Failure of any Bidder to receive any such addendum or interpretations shall not relieve such Bidder from any obligation under his bid as submitted. All addenda so issued shall become part of the Contract Documents.

6. Familiarity of the Work

Each Bidder shall fully inform himself prior to bidding as to existing conditions and limitations under which the work is to be performed, and shall include in his bid a sum to cover the cost of items necessary to perform the work as set forth in the Contract Documents. No allowance will be made to a Bidder because of lack of such examination or knowledge. The submission of a bid will be considered as conclusive evidence that the Bidder has made such examination.

Where borings or other exploration data are shown on the Plans or made available to the Bidder, it is understood that such data were obtained in the usual manner, and with reasonable care, and are to be interpreted and used as the Bidder sees fit. There is no expressed or implied agreement that the depths or the character of the material and water levels have been correctly indicated, and the Bidder is cautioned to take into account that condition affecting the work may differ from those indicated.

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 shall make no claim for and has no right to additional payment or extension of time for completion of the work, or any other concessions, 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. Permission for making borings, test pits, or other investigations of subsurface conditions will be arranged for by the Owner upon receipt of a written request thereof.

7. Existing Conditions

In bidding on this Contract, each Bidder acknowledges that he has made whatever investigation of the project site he has deemed necessary for the purpose of bidding

8. Estimate of Work

For bidding purposes, the work has been subdivided into unit price items. The quantities shown below are to be considered as approximate only. The Inspector does not expressly or by implication agree that the actual quantity(ies) will correspond therewith, but reserves the right to increase or decrease the amount of any Item or portion of the work as may be deemed necessary.

9. Qualification of Bidders

A Bidder shall be a contractor who is experienced in the construction of the projects of this type. The Proposal shall contain adequate proof of the qualifications of the Bidder to perform, in a satisfactory manner and within the time specified, all the work covered by the Plans and Project Manual. This proof shall be fully recorded on the pages titled "References", which shall become part of the Proposal.

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.

10. Disqualification of Bidders

More than one proposal from an individual, firm, partnership, corporation, or an association under the same, or different, names will not be considered. Reasonable grounds for believing that any Bidder is interested in more than one proposal for the work contemplated will cause the rejection of all proposals in which such Bidder is interested. Any or all proposals in which such Bidder is interested will be rejected if there is reason for believing that collusion exists among the Bidders; and all participants in such collusion will not be considered in future proposals for the same work. Proposals in which the prices are obviously unbalanced may be rejected. No Contract will be awarded except to competent Bidders capable of performing the class or work contemplated.

11. Preparation of Proposals

The Proposal must be made upon the forms contained herein. The blank spaces in the Proposals must be filled in correctly where indicated. The Bidder must state, both in words and in numerals, written or printed in ink, the prices for which he proposes to do each Item of the work contemplated. In case of discrepancy between the words and the numerals, the words shall govern. Ditto marks are not considered writing, or printing, and shall not be used. The Bidder shall sign his Proposal correctly. If an individual makes the Proposal, his name and post office address must be shown. If made by a firm, partnership, or corporation, the Proposal must be signed by an official of the firm, partnership, or corporation authorized to sign contracts, and must show the post office address of the firm, partnership, or corporation.

Each bid must be submitted in a sealed envelope bearing on the outside the name of the Bidder, this address, and name of the project for which the bid is submitted. If forwarded

by mail, the sealed envelope containing the bid must be enclosed in another envelope addressed to: Purchasing Office, Borough of Naugatuck, City Hall, 229 Church Street, Naugatuck, CT 06770.

12. Irregular Proposals

The Borough of Naugatuck reserves the right to reject any proposals if they show any omission, alteration of form, additions not called for, conditional bids, or irregularities of any kind.

13. Proposal Guarantee

No proposal will be considered unless accompanied by a certified check in U.S. dollars, or bid bond using an insurance company licensed to do business in the State of Connecticut in an amount equal to at least 5% of the amount of the bid and payable to the order of the Borough of Naugatuck, said check or bid bond to be returned to the Bidder unless forfeited as hereinafter stipulated. Such checks or bid bonds will be returned to all bidders within five (5) days after the execution of the Contract and the furnishing of the required security by the successful Bidder.

14. Withdrawal of Proposals

If a Bidder wishes to withdraw his Proposal, he may do so before the time fixed for the opening of bids by communicating his purpose to the office of the Mayor. Upon such notice, the Proposal will be handed to him unopened.

15. Execution of Contract

The party to whom the Contract is awarded, or his authorized representative, will be required to attend at the office of the Mayor, Borough of Naugatuck, with the sureties offered by him, or them, and a current certificate of Corporate good standing issued by the Office of the Secretary of State in which the corporation is incorporated, and execute the Contract within five (5) days from the date of the award. If the party entering into this contract is a corporation, a Corporate Resolution duly executed by the president and Secretary of the Corporation authorizing the Corporation to enter into this Contract shall be provided. In case of his failure or neglect to do so, the Owner may, at its opinion, determine that the Bidder has abandoned the Contract and thereupon the Proposal and acceptance shall be null and void, and bid security accompanying the Proposal shall be forfeited as liquidated damages to the Owner. If the party entering into this contract is a partnership, a partnership resolution duly executed by a majority of the general partners authorizing the partnership to enter into this contract shall be provided.

16. Bonds

The successful Bidder, at the time of the execution of the Contract, shall furnish a Performance Bond in an amount at least equal to one hundred percent (100%) of the Contract prices as security for the faithful performance of this Contract and also a Payment bond in an amount not less than one hundred percent (100%) for the Contract prices as security for the payment of all persons performing labor on the project under this Contract and furnishing materials in connection with this Contract. All Bonds shall

be in the forms prescribed by Law or Regulation and be acceptable to the Owner. Surety companies executing Bonds must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State of Connecticut. Bidder shall provide evidence that Surety Company is licensed to conduct business in the State of Connecticut. All sureties shall be in full force throughout the guarantee period and until the retainage is released.

17. Responsibility of the Contractor

Attention is hereby particularly directed to the provisions of the Contract and Specifications whereby the Contractor shall be responsible for any loss or damage that may happen in the work, or any part thereof, during its progress and also whereby the Contractor shall make good any defects for faults that may occur within one (1) year after date of final estimate. He shall indemnify and save harmless the Owner and Engineer from any damages or costs to which they may be put by reason of injury to the person or property of another resulting from negligence or carelessness in the performance of the work under this Contract.

18. Insurance

Before execution of the Contract, the Bidder will be required to file with the Borough of Naugatuck a certificate of insurance. The certificate, executed by an insurance company satisfactory to the Borough of Naugatuck shall name the Borough of Naugatuck and the State as additional insured parties on the form furnished with these Contract Documents. The ACORD Certificate of Liability Insurance form is the industry accepted evidence of insurance and shall state that at a minimum, with respect to the contract, the bidder carries insurance in accordance with the requirements and stipulations listed below.

'The Contractor' shall indemnify, defend and hold harmless the Borough of Naugatuck, its officials, officers, employees and designees caused in whole or in part to the fullest extent permitted by law from and against any and all claims, suits, actions, obligations, liabilities, damages, losses or injury (including the resulting death of a person), penalties, and expenses (including reasonable attorneys' fees) to the extent arising out of the performance of this Agreement or due to the Contractor's negligence or willful misconduct or omissions of the Contractor or its employees, agents, subcontractors or representatives.

Prior to the commencement of the work, and until final completion and acceptance of the work, the Contractor shall procure and maintain the following types of insurance and maintain all insurance coverage for the life of the contract, from an insurance company or companies with an A.M. Best Rating of A- (IX) or better. Such insurance will protect and indemnify the Borough of Naugatuck from all claims which may arise out of or result from the Contractor's obligations under this agreement, whether caused by the contractor or by a subcontractor or any person or entity directly or indirectly employed by the Contractor or by anyone for whose acts said Contractor may be liable.

- A. *Workers Compensation*: The Contractor shall provide workers compensation and employer's liability insurance that complies with the regulations of the State of Connecticut with limits no less than \$100,000 each accident by bodily injury; \$100,000 each accident by disease and a policy limit of \$500,000. Such policy shall contain a 'waiver of our right to recover from other endorsement' in favor of the Borough of Naugatuck.
- B. *Commercial General Liability Insurance*: The Contractor shall provide commercial general liability insurance policy that includes products, operations and completed operations as follows: Bodily injury & property damage with an occurrence limit of \$1,000,000: Personal & advertising injury limit of \$1,000,000 per occurrence: General aggregate limit of \$2,000,000 (other than products and completed operations): Products and completed operations aggregate limit of \$2,000,000. The policy shall name the Borough of Naugatuck as an additional insured on an ongoing basis.
In addition,
- Such policy will be provided on an occurrence basis and will be primary and shall not contribute in any way to any insurance or self-insured retention carried by the additional insured.
 - Such policy shall contain a broad form contractual liability endorsement or similar wording within the policy form.
 - Such policy shall contain a waiver of subrogation in favor to the Borough of Naugatuck.
 - Such policy shall include coverage for the Contractor's sub-contractors, or any person or entity directly or indirectly employed by said Contractor or by anyone for whose acts said Contractor may be liable.
- C. *Commercial Automobile Insurance*: The Contractor shall provide commercial automobile insurance for any owned autos (symbol 1 or equivalent) in the amount of \$1,000,000 each accident covering bodily injury and property damage on a combined single limit. Such coverage shall also include hired and non-owned automobile coverage.
- D. *Umbrella Liability Insurance*: The Contractor shall provide commercial umbrella liability with limits no less than \$5,000,000 each occurrence and \$5,000,000 in the aggregate which shall be following form, without restriction or limitation, providing coverage over items (A), (B), (C), as noted above on a primary and non-contributory basis.
- E. *Pollution/Environmental Liability Insurance*: The Contractor shall provide pollution liability insurance with limits no less than \$1,000,000 each occurrence, and \$1,000,000 in the aggregate, that will cover clean remediation costs, as well as bodily injury. This can be covered under the general liability policy, or a standalone policy.
- F. *Commercial Automobile Insurance*: The Contractor shall provide commercial automobile insurance for any owned autos (symbol 1 or equivalent) in the amount of \$1,000,000 each accident covering bodily injury and property damage on a combined single limit. Such coverage shall also include hired and non-owned automobile coverage.
- G. *Umbrella Liability Insurance*: The Contractor shall provide commercial umbrella liability with limits no less than \$5,000,000 each occurrence and \$5,000,000 in the aggregate which shall be following form, without restriction or limitation, providing coverage over items (A), (B), (C), as noted above on a primary and non-contributory basis.

Prior to the issuing of any notice to proceed by the Borough of Naugatuck, the Contractor shall furnish the Borough of Naugatuck with Certificates of Insurance evidencing such insurance as set forth above. Said policies shall not be cancelled or permitted to lapse until final completion and approval of the performance of the work until ten (10) days after the Borough of Naugatuck has received written notice, by certified or registered mail, that the cancellation or change of such policy is contemplated.

The Contractor shall advise their insurers or agent of the contract provisions regarding insurance. The failure of the Contractor to notify insurers or agent of the contract provision shall not relieve the Contractor from its insurance obligations under the Agreement. Non-fulfillment of the insurance provisions shall constitute a breach of this agreement and the Borough of Naugatuck retains the right to stop work until proper evidence of insurance is provided.

19. Care and Protection of Property

The Contractor shall take particular care to avoid damages to all private property and to private improvements within the Boroughs' right of way. He shall make good any damages to the satisfaction of the Inspector. There shall be no additional compensation for the repair or restoration of private property, or private improvements within the Boroughs' right of way. **See Special Provisions and Notices to Contractor for more specific requirements for Care and Protection of Property.**

20. Sales Tax

Certain materials and supplies incorporated in the work of this project are exempt from Connecticut Sales Tax. The Bidder shall familiarize himself with current regulations of the State Tax Department. The tax on materials or supplies exempted by such regulations shall not be included as part of the bid. The Owner will furnish the successful Bidder a sales tax exemption number.

21. Compliance with Federal and State Regulations

The Contractor shall be responsible for full compliance with any Federal and/or State laws, regulations and standards, as applicable to any project fully or partially funded by State and/or Federal funding agency. This project is funded, in part, by the State and Federal government.

22. Permits

All licenses and permits for complying with any applicable Federal, State, and Municipal laws, codes and regulations in connection with the prosecution of the work shall be obtained by the Contractor, at no additional cost to the Owner.

23. CHRO Contract Compliance Regulations

The contractor who is selected to perform this State project must comply with CONN. GEN. STAT. §§ 4a-60, 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. Forms can be found at:
http://www.ct.gov/opm/cwp/view.asp?a=2982&q=390928&opmNav_GID=1806

24. Work Plan

The Contractor shall prepare a Work Plan to described the means and methods for: coordination with the Owner, regulated material handling, transportation, disposal, decontamination, and project close-out. The plan must include a sedimentation and erosion control plan and stockpile management plan.

25. Contractor's Right to Terminate Work

If the work should be stopped under an order of any court or other public authority, for a consecutive period of not less than thirty (30) days, through no act or fault of the Contractor or of anyone employed by him, then the Contractor may terminate this Contract and recover from the Owner payment for all work executed.

26. Wage Rates

The Bidder's attention is directed to Section 40 of the General Requirements in connection with wage rates.

27. Power of Attorney

Attorneys-in-fact who sign contract bonds must file, with each bond, a certified and effectively dated copy of their power of attorney.

28. Right to Reject

The Owner reserves the right to reject any or all proposals or to accept any bid, should it deem it to be in the best interest of the Owner.

29. Purchasing

All goods and services pertaining to work in this bid document shall commence with the vendors receipt of a Purchase Order from the Borough of Naugatuck.

Invoices must include the purchase order number and the charges listed in accordance with the purchase order. Invoices are to be delivered via email to accountspayable@naugatuck-ct.gov or as follows:

Borough of Naugatuck, Accounts Payable, 229 Church Street, Naugatuck, CT 06770

30. Equal Opportunity Clause

(a) Government contracts. Except as otherwise provided, each contracting agency shall include the following equal opportunity clause contained in section 202 of the order in each of its Government contracts (and modifications thereof if not included in the original contract): During the performance of this contract, the contractor agrees as follows: (1) 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 by the contracting officer setting forth the provisions of this nondiscrimination clause.

(2) 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.

(3) 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 by the agency contracting officer, advising the labor union or workers' representative of the contractor's commitments under section 202 of Executive Order 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(4) 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.

(5) 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 the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(6) In the event of the contractor's non-compliance with the nondiscrimination clauses of this contract or with any of such rules, regulations, or orders, this contract may be canceled, terminated or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided 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.

(7) the contractor will include the provisions of paragraphs (1) through (7) 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 may be directed by the Secretary of Labor 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, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

31. 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 efforts 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,

form 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.

32. State Set-Aside and Contract Compliance Requirements:

The contractor who is selected to perform this State project must comply with CONN. GEN. STAT. §§ 4a-60, 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. Forms can be found at:

http://www.ct.gov/opm/cwp/view.asp?a=2982&q=390928&opmNav_GID=1806

33. Forms Requirements

All forms in this document must be filled, signed and returned with the bid. Missing or not signed forms may disqualify bid submission package. In addition, the following forms should also be included:

- Bid Proposal
- References/Qualifications
- Contractors Qualification Summary
- Certificate of Non-Collusion
- Bid Bond
- CHRO Bidder Contract Compliance Monitoring Report Appendix 5
- Surety Guaranty Form
- Completed IRS Form-W9
- Certificate of Insurance listing Borough of Naugatuck as Certificate Holder
- Completed Insurance Agreement Appendix 6

PROPOSAL FORMS/BID FORMS

PROPOSAL/BID FORM

Borough of Naugatuck

Excavation and Disposal of Controlled Materials Parcel
B – Area 5
NAUGATUCK, CONNECTICUT Contract No. FY23-B030

The undersigned, as Bidder, declares that no person or persons, other than those named herein, are interested in this Proposal; that this Proposal is made without collusion with any person, firm or corporation; that he has carefully examined the location of the proposed work, the proposed Form of Contract, and the Contract Drawings therein referred to; that no person or persons acting in any official capacity for the Owner is directly or indirectly interested therein or in any portion of the profit thereof; and that he proposes and agrees, if this Proposal is accepted, to execute the Form of Contract with the Owner; to provide all necessary equipment, tools, and other means of construction, and to do all work and furnish all materials specified in the Contract, in the manner and time therein prescribed, and according to the requirements of the Borough of Naugatuck Inspector as therein set forth, and that he will take in full payment therefore, the following unit prices and lump sums, to wit:

The Bidder acknowledges receipt of the following addenda:

Addendum No. _____ Dated: _____
Addendum No. _____ Dated: _____
Addendum No. _____ Dated: _____

The undersigned agrees that he shall execute the Contract within the ten (10) days after the date of award, and shall commence work within the ten (10) days after date of the Notice to Proceed and shall progress therewith to its entire completion within the time stipulated in the Contract.

The Bidder agrees that this bid shall be good and may not be withdrawn for a period of ninety (90) days after the scheduled closing time for receiving bids.

If this Proposal shall be accepted by the Owner and the undersigned shall fail to contract as aforesaid, and to give bonds in a sum equal to one hundred percent (100%) of the Contract price, as determined by the canvass of bids, and with surety or sureties satisfactory to the Owner within ten (10) days from the date of the award, then the Owner may, at its option, determine that the Bidder has abandoned the Contract: thereupon, the Proposal and acceptance shall be null and void, and the bid security, for not less than one-tenth (10%) of the amount of the bid, accompanying this Proposal, shall become the property of the said Owner as liquidated damages for the delay and additional expense to the Owner caused thereby if said Proposal shall be rejected, or if said Proposal shall be accepted and the Bidder shall execute and deliver a contract in the Form of Contract attached hereto (properly completed in accordance with said Proposal) and shall furnish a Bond for his faithful performance of said Contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said Proposal, the accompanying bid security shall be returned to the undersigned making bid.

PROPOSAL/BID FORM

Borough of Naugatuck

Excavation and Disposal of Controlled Materials Parcel
B – Area 5
NAUGATUCK, CONNECTICUT Contract No. FY23-B030

Forms Requirements

All forms in this document must be filled, signed and returned with the bid. Missing or not signed forms may disqualify bid submission package. In addition, the following forms should also be included:

- Bid Proposal
- References/Qualifications
- Contractors Qualification Summary
- Certificate of Non-Collusion
- Bid Bond
- CHRO Bidder Contract Compliance Monitoring Report Appendix 5
- Surety Guaranty Form
- Completed IRS Form-W9
- Certificate of Insurance listing Borough of Naugatuck as Certificate Holder
- Completed Insurance Agreement Appendix 6

Seal
(if bid is by a Corporation)

Firm or Corporation _____

By: _____
(Duly Authorized)

Street Address _____

City _____ State _____ Zip _____

Telephone _____

Email _____

Date

Fax _____

Excavation and Disposal of Controlled Materials
Parcel B – Area 5
NAUGATUCK, CONNECTICUT
Contract No. FY23-B030

BIDDER'S NAME:

PROPOSAL NUMBER:

Item 1 Notifications, coordination, Project Sign. Environmental Health and Safety, Work Plan, Site Preparation, close out documentation, and demobilization. Work Plan to describe the means and methods for regulated material handling, transportation and disposal, equipment decontamination and project close-out. The plan must include a plan for sedimentation and erosion control and stockpile management. The Work Plan must acknowledge in writing that the Contractor has read and will abide the project documents,

\$ _____ Lump Sum

Item 2 Mobilization, excavation, stockpiling, profiling, Waste Management, staging area Management, Decontamination, transportation and permitted disposal of Controlled Materials consisting of PCB Remediation Waste (soil) as a greater than or equal to (\geq) 50 parts per million (ppm) PCB waste in accordance with 40 CFR § 761.61(a)(5)(i)(B)(2)(iii). Line item must account for securing the excavation and an analytical hold time of up to 5 business days prior to receiving approval to backfill the excavation.

525 Tons @ \$ _____/Ton \$ _____ Total Price

Item 3 Restoration of grade including back filling and compaction in 1-foot lifts using approved clean granular fill (meeting all R-DEC and GA-PMC remedial criteria of the remediation standards).

350 CY @ \$ _____/Ton \$ _____ Total Price

TOTAL BID AMOUNT \$ _____

UNIT PRICES (ADD/DEDUCT)

A-1 Remobilization, excavation, stockpiling, profiling, transportation and permitted disposal of Controlled Materials (soil) consisting of PCB Remediation Waste as a greater than or equal to (\geq) 50 parts per million (ppm) PCB waste in accordance with 40 CFR § 761.61(a)(5)(i)(B)(2)(iii). Line item must account for analytical hold time of up to 5 business days.

22 Tons @ \$ _____/Ton _____ Total Price

PROPOSAL/BID FORM
Borough of Naugatuck

Excavation and Disposal of Controlled Materials Parcel
B – Area 5
NAUGATUCK, CONNECTICUT Contract No. FY23-B030

Costs of all Mobilization, Demobilization, Insurance, Bonding, Administration, Manifest Paperwork, OSHA and Environmental Compliance Items Shall be included in the unit prices for Item 1 and 2 whereby no additional measurement will be required.

Subject to the approval of the Borough of Naugatuck, the soils will be transported and disposed at the following permitted facilities:

And/Or

"Unit Price" amounts are to be shown in both words and figures. In case of discrepancy, the amount shown in words will govern. In case of discrepancy between "Unit Price" and "Total Amount", the unit price will govern. Unit price for soil transportation and disposal will be based on the unit pricing and weight measurements in ton from a certified scale.

The award of the Contract will be made to the lowest responsible bidder. By submission of the Bid, each bidder certifies that his bid has been arrived at independently, without consultation, communication, or agreement as to any matter related to this Bid and with any other Bidder or competitor.

Signature _____

Date _____

Print Name _____

Tel _____

Corporation Name _____

Fax _____

Address _____

E-mail _____

REFERENCES

The Bidder is required to fill out the following form to enable the Owner to make inquiries and judge as to the Bidder's experience, skill, available financial resources, credit, and business standing.

1. Number of years the bidder has been in business as a General Contractor:

2. List three (3) projects of similar nature to the project described herein that the Bidder has completed, with name, address, and telephone number of a reference for each project. Include approximate construction cost:

3. List projects presently under construction by the Bidder, dollar amount of the contract, and percent completed:

4. Has the Bidder ever failed to complete work awarded; and if so, state where and why:

5. Does the Bidder plan to sublet any part of this work; and if so, give details:

6. List equipment Bidder owns that is available for this project:

7. List equipment the Bidder plans to rent or purchase for this project:

8. If the Bidder has worked under the direction of a Borough of Naugatuck Inspector, list recent projects with the name, address, and telephone number of the Consultant:

9. List name, address, and telephone number for the following:

Surety: _____

Bank: _____

Major Material Supplier: _____

Bidder

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, as Principal, and _____
_____ as Surety, are

hereby held and firmly bound unto _____ as OWNER in the penal sum
of _____

for the payment of which, well and truly to be made, we hereby jointly and severally bind
ourselves, successors and assigns.

Signed, this _____ day of _____, 2022.

The Condition of the above obligation is such that whereas the Principal has submitted to
_____ a certain BID, attached hereto and hereby made a part hereof to enter
into

a contract in writing, for the Excavation and Disposal of Controlled Materials Parcel
B, NAUGATUCK, CONNECTICUT Contract No. FY23-B030

NOW, THEREFORE,

(a) If said BID shall be rejected, or

(b) If said BID shall be accepted and the Principal 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 for the
payment of all persons performing labor or furnishing materials in connection therewith,
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 OWNER 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 have 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: _____
IMPORTANT - Surety companies executing BONDS must appear on the Treasury Department's
most current list (Circular 570 as amended) and be authorized to transact business in the state
where the project is located.

CONTRACT FORMS

CONTRACT AND AGREEMENT

THIS AGREEMENT, for Excavation and Disposal of Controlled Materials Parcel B, NAUGATUCK, CONNECTICUT Contract No. FY23-B030 made this _____ day of _____ in the year 20___,

Between the Borough of Naugatuck, with its principal office and place of business at 229 Church Street, Connecticut 06770, acting herein through it's Mayor and

_____, a _____, with an office and place of business at _____, hereinafter called the contractor.

WITNESSETH: That the parties to this agreement in consideration of the undertakings, promises, and agreements on the part of the other herein contained, hereby undertake, promise, and agree as follows:

I Definitions

The word "Owner" as used herein shall mean the Borough of Naugatuck, acting through its properly authorized representatives.

The words "as directed", "as required", "as permitted", "as allowed", or phrases of like effect or import, used herein shall mean that the direction, requirement, permission, or allowance of the Borough of Naugatuck Inspector is intended and similarly the words "approved", "reasonable", "suitable", "proper", "satisfactory", or words of like effect or import, unless otherwise particular specified herein, shall mean approved, reasonable, suitable, proper, or satisfactory in the judgment of the Borough of Naugatuck Inspector.

The word "Contractor" shall mean _____ or it's duly authorized agents.

II Contract Includes

The indices, headings and subheadings are for convenience only and do not form a part of the Contract Documents.

The Contractor shall, at his own sole cost and expense, furnish all labor, materials, and other services necessary for the completion of this Contract and shall complete and finish the same in the most thorough, workmanlike, and substantial manner, in every respect, to the satisfaction and approval of the Borough of Naugatuck Inspector, in the manner and within the time hereinafter limited, and in strict accordance with the Advertisement, Information for Bidders, Proposal, Contract Forms, General Requirements, Supplemental Specifications, Standard Specifications, Special Provisions and Addenda hereto attached, and the Contract Drawings herein referred to, (collectively the "contract documents"), which contract documents are hereby made a part of this Contract as fully as if the same were repeated at length herein.

Addendum No. ____ Dated: _____ Addendum No. ____ Dated: _____
Addendum No. ____ Dated: _____ Addendum No. ____ Dated: _____
Addendum No. ____ Dated: _____ Addendum No. ____ Dated: _____

III Specifications and Contract Drawings Supplementary

The said standard and supplemental specifications, special provisions and Contract Drawings are intended to supplement each other, and together constitute one complete set of Contract Documents, so that any work exhibited in the one and not in the other shall be executed just as if it had been set forth in both, in order that the work shall be completed in every respect according to the complete design or designs as decided and determined by the Borough of Naugatuck Inspector. Should anything be omitted from the Specifications and Contract Drawings, the Contractor shall promptly notify the Borough of Naugatuck Inspector. From time to time during the progress of the work, the Borough of Naugatuck Inspector will furnish such supplementary or working drawings as are necessary to show changes or define the work in more detail, and these also shall be considered as Contract Drawings.

IV Modifications

The Contractor, in entering into this Contract, understands that the Owner reserves the right to modify, to the extent herein provided, the arrangement, character, grade, or size of the work or appurtenances whenever, in the Owner's opinion, it shall be deemed necessary or advisable to do so. Minor changes in the work, not involving extra cost and consistent with the purposes of the work, may be made by verbal order, but no modifications involving extra work or material changes shall be made unless ordered in writing by the Borough of Naugatuck Inspector; and if the modification requires additional cost, a purchase order must be issued prior to work commencing. The Contractor shall and will accept such modifications when ordered in writing by the Owner through the Borough of Naugatuck Inspector, and the same shall not vitiate or void this Contract.

Any such modifications so made shall not, however, subject the Contractor to increased expense without equitable compensation, which shall be determined by the Borough of Naugatuck Inspector. If such modifications result in a decrease in the cost of work involved, and equitable deduction from the Contract price, to be determined by the Borough of Naugatuck Inspector, shall be made. The Borough of Naugatuck Inspector's determination of such additional compensation, or of any such deduction, shall be based upon the unit prices in the Contractor's bid, unless the modification involves work not included in such bids and then in the event, the modification shall be as set forth in Section XXVIII prior to the commencement of additional work. In no event shall any modification in the work shown on the Plans and Specifications be made unless the nature and extent thereof has first been certified by the Borough of Naugatuck Inspector in writing and sent to the Contractor.

V Correction of Errors and Omissions

The Plans, Standards and Specifications and Special Provisions forming part of this Contract are intended to be explanatory of each other, but should any discrepancy appear, or misunderstanding arise, as to the import of anything contained in either, the explanation and

decision of the Borough of Naugatuck Inspector shall be final and binding on the Contractor; and all directions and explanations required, to complete and make effective any of the provisions of the Contract and Specifications, shall be given by the Borough of Naugatuck Inspector. Corrections of errors and omissions in the Drawings, Standard or Special Provisions may be made by the Borough of Naugatuck Inspector when such corrections are necessary for the proper fulfillment of the Contract Documents as construed by the Borough of Naugatuck Inspector. The effect of such corrections shall date from the time that the Borough of Naugatuck Inspector gives due notice thereof to the Contractor.

VI Borough of Naugatuck Inspector's Decision

All work under this Contract shall be done to the satisfaction of the Borough of Naugatuck Inspector, who shall determine the amount, quality, acceptability, and fitness of the several items of work and materials which are to be paid for hereunder. He also shall decide all questions which may arise as to the fulfillment of the terms of the Contract Documents. The determination of the Borough of Naugatuck Inspector in all such matters shall be final and binding upon the parties thereto.

VII Inspection of Work

It is agreed that the Owner may, at its pleasure, appoint and employ, at its own expense, such persons as may be necessary, who are to act as Borough of Naugatuck Inspectors, inspections, or agents, for the purpose of determining, in the Borough's interest, that the materials furnished and the work done, as the work progresses, conforms to the requirements of the Contract Documents. Such persons shall have unrestricted access to all parts of the work and to other places at and where the preparation of the materials and other parts of the work to be done under this Contract are carried on and conducted. They shall be given, by the Contractor, all facilities and assistance required to carry out their work of inspection.

It is not the function of the Borough of Naugatuck Inspector to supervise or direct the manner in which the work to be done under this Contract is carried on or conducted. The Borough of Naugatuck Inspector 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.

The Borough of Naugatuck Inspector shall have authority to reject and shall reject any work or material, or any part thereof, which does not, in his opinion, conform to the Contract Drawings, working drawings, Standard Specifications, Special Provisions and Contract, and it shall be permissible for him to do so at any time during the progress of the work.

No work shall be done except in the presence of the Borough of Naugatuck Inspector or his assistants. No material of any kind shall be used upon the work until it has been inspected and accepted by the Borough of Naugatuck Inspector. Any materials or workmanship found at any time to be defective, or not of the quality or character required by the Contract Drawings, Standard Specifications and Special Provisions shall be remedied at once regardless of previous inspection.

Such inspection shall not relieve the Contractor from any obligation to perform said work strictly in accordance with the Contract Drawings and Project Manual and work not so constructed shall be removed and made good by the Contractor at this own expense and free of

all expense to the Owner, whenever so ordered by the Owner, without reference to any previous oversight or error in inspection.

VIII Address of Contractor

The address in the Proposal, upon which this Contract is based, shall be the Contractor's place of business as set forth in this agreement. The delivering at the above-named place any such notice, letter, or other communication to the Contractor shall be deemed proper service to the Contractor. The notice letter or other communication may be mailed or delivered, from the Borough to the Contractor. The date of said service shall be the date of such delivery. Nothing herein contained shall be deemed to preclude or render inoperative the service of any notice, letter, or other communication upon the Contractor or his representative personally.

IX Obligation of the Contractor

The Contractor shall, at his own expense, provide any and all manner of supervisor, insurance, taxes, labor, materials, apparatus, scaffolding, appliances, tools, machinery, power, transportation, and whatever else may be required of every description necessary to do and complete the work and shall be solely answerable for the same and for the safe, proper, and lawful construction, maintenance, and use thereof. The Contractor shall cover and protect the work from damage and shall make good all injury to the same occurring before completion of this Contract. The Contractor shall employ only competent workmen and shall provide experienced superintendents and foremen on each part of the work.

The Contractor shall, at their own expense, wherever necessary or required, maintain fences, provide watchmen, maintain lights, place additional timber and braces, and take such other precautions as may be necessary to protect life, property, and structures, vehicles and pedestrians and shall be liable for all damages, occasioned in any way by his act or neglect or that of this agent, employees, or workmen. He shall provide access at all times to private property.

X 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. The Contractor's attention is particularly directed to the record keeping requirements of this Act.

XI Nondiscrimination in Employment

The Contractor agrees and warrants that, in the performance of this Contract, he will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, sex, religion, or national origin in any manner prohibited by State, Federal, County or Municipal law.

XII Personal Attention and Competent Workmen

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 representative, on the site of the work continually during its progress to receive directions or instructions from the Borough of Naugatuck Inspector. The Contractor shall employ at the site, during the

performance of the work, a competent superintendent or foreman who shall be satisfactory to the Borough of Naugatuck Inspector and who shall not be changed, except with the consent of the Borough of Naugatuck Inspector, unless he shall cease to be an employee of the Contractor. Such superintendent or foreman shall represent and have full authority to act for the Contractor in his absence, and all directions and instructions given such superintendent or foreman shall be as binding as if given to the Contractor.

The Contractor shall employ only competent, skillful men to do the work, and whenever the Borough of Naugatuck Inspector shall notify the Contractor in writing that any man on the work is, in his opinion, 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 Borough of Naugatuck Inspector.

XIII Public Safeguards

The Contractor agrees to conduct the work at all times in such a manner that public travel shall not be inconvenienced needlessly nor shall it be wholly obstructed at any point.

XIV Materials and Workmanship

It is the intent of the Specifications to describe fully and definitely the character of materials and workmanship furnished regarding all ordinary features and to require first-class work and materials in all particulars. For any unexpected features arising during the progress of the work and not fully covered herein, the Specifications shall be interpreted by the Borough of Naugatuck Inspector to require first class work and materials in all respects, and such interpretation shall be accepted by the Contractor.

XV Materials and Manufactured Articles

All materials and workmanship shall be subject to the approval of the Borough of Naugatuck Inspector and shall be in conformity with approved modern practice.

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

XVI Unnoticed Defects

The inspection of the work and materials by the Borough of Naugatuck Inspector shall not relieve the Contractor of any of his obligations to fulfill this Contract, as herein described, and defective work shall be made good and unsuitable materials shall be rejected, notwithstanding that such work and materials had been previously overlooked by the Borough of Naugatuck Inspector and accepted or estimated for payment. If the work, or any part thereof, shall be found defective at any time before final acceptance of the whole work, the Contractor shall forthwith make good such defects, in a manner satisfactory to the Borough of Naugatuck Inspector.

XVII Care and Protection of Work

From the commencement of the work until the completion of the same, the Contractor shall be solely responsible for the care of the work covered by the Contract and for the materials delivered at the site intended to be used in the work; and all injury, damage, or loss of the same, from whatever cause, shall be made good at his expense before the final estimate is made. He shall provide suitable means of protection for all materials intended to be used in the work and for all work in progress as well as for completed work. He shall take all necessary precautions to prevent injury or damage to the work under construction by flood, freezing or inclement weather at any and all times. The methods used for this purpose shall be subject to the approval of the Borough of Naugatuck Inspector, but shall not relieve the Contractor from liability for inadequate protection of the work or materials.

XVIII Assignment of Contract

The Contractor shall have no right or power to assign this Contract, in whole or in part, nor to assign any right arising, or moneys due or to grow due thereunder, without prior written approval of the Owner.

XIX Subcontracting

The Contractor may utilize the services of specialty subcontractors on those parts of the work which, under normal contracting practices, are performed by specialty subcontractors. The Contractor shall not award the work to a subcontractor(s) without prior written approval of the Owner. The Contractor shall be fully responsible to the Owner 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.

The Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the work to bind subcontractors to the Contractor by the terms of these Contract Documents, insofar as applicable to the work of subcontractors, and to give the Contractor the same power as regards terminating any subcontract that the Owner may exercise over the Contractor under any provisions of these Contract Documents.

Nothing contained in this contract shall create any contractual relation between any subcontractor and the Owner.

XX Liability of Contractor for Employees

Each and every employee of the Contractor and each and every of his subcontractors engaged in the said work shall, for all purposes, be deemed and taken to be the exclusive servants of the Contractor and not for any purpose or in any manner in the employment of the Owner. The Contractor shall, in no manner, be relieved from responsibility or liability on account of any fault or delay in the execution of the said work, or any part thereof, by any such employee, or any such subcontractor, or any material men, whatsoever.

XXI Coordination With Other Contractors and Utilities

During the progress of the work, existing utilities may be found to be in close proximity to

or in conflict with the work being installed. The Contractor shall make every effort to identify and locate these utilities before working in the area. If it is known or found that these utilities exist the Contractor shall contact the appropriate utility and alert them to the situation. Should an existing utility be found to be in close proximity to the work the Contractor shall take all the necessary precautions to protect the utilities and his work. Should existing utilities be found to conflict with the work the Contractor shall arrange with the utility company for their adjustment. No additional compensation will be made for delays, inconvenience or damage sustained by the Contractor due to interference from the above-noted utility appurtenances or the operation of locating, installing or moving them or the inability of others to perform their work in a timely manner.

XXII Permits, Laws, Codes, Ordinances and Insurance

The Contractor shall keep himself fully informed of all existing and current codes, ordinances, and regulations and Municipal, County, State or National laws in any way limiting or controlling the actions or operations of those engaged upon the work or affecting the materials supplied to or by them. He shall, at all times, observe and comply with all such valid and legally binding ordinances, laws, and regulations and shall protect and indemnify the Owner and its representatives and agents against any claim or liability arising from, or based on, any violation of the same. He shall obtain and pay for all necessary permits and pay all fees required in connection with the Contract. Contractor shall provide the types and amounts of insurance as set forth in Section 18, Information of Bidders and maintain in effect. He shall take out and carry appropriate employer's liability insurance and public liability insurance.

XXIII Patent Rights

The Contractor shall indemnify and save harmless the Owner and its officers, agents, and representatives from all claims for damages arising from the infringements, or alleged infringements, of any Letters Patent or patent rights covering any material, appliance, or device used in or upon the work or any part thereof.

All royalties for patents or patent infringement claims, that might be involved in the construction or use of the work, shall be included in the Contract amount; and the Contractor shall satisfy all demands that may be made at any time for such and shall be liable for any damage or claims for patent infringements; and the Contractor shall, at his own expense, defend any and all suits or proceedings that may be instituted against the Owner for infringement, or alleged infringement, of any patent or patents involved, or alleged to be involved, in the work; and in case of any award for damages, the said Contractor shall pay such award.

XXIV Defense of Suits

The Contractor shall indemnify and hold harmless the Owner and its consultants, agents and employees from and against all claims, damages, losses, and expenses, including, but not limited to, attorney fees, ("indemnification expense") arising out of or resulting from the performance of the work or arising out of or resulting from the Contract Documents, including, without limitation, all indemnification expense regarding personal injury or death and/or damage to real or personal property or motor vehicles.

In claims against any person or entity indemnified under this section by an employee or the Contractor, a Subcontractor, anyone directly or indirectly employed by them or anyone for

whose acts they may be liable, the indemnification obligation under this Section shall not be limited by a limitation on amount or type of damages, compensation or benefits payable by or for the Contractor or a Subcontractor under worker's or workmen's compensation acts, disability benefit acts or other employee benefit acts.

XXV Claims for Labor and Materials

The Contractor shall indemnify and save harmless the Owner from all claims expenses and for judgments regarding labor done or materials furnished under this Contract, or any alterations or modifications thereof, including without limitation, reasonable Attorney's fees. Contractor shall furnish the Owner with a Mechanic's Lien Waiver from all persons who have done work, or furnished materials under this Contract. In case such waiver is not furnished, an amount necessary or sufficient, within the discretion of the Owner, to meet the claims of the persons aforesaid, shall be retained, as herein specified, from the money due the Contractor under this Contract until the liabilities aforesaid shall be fully discharged or satisfactorily secured.

XXVI Completion of Work by Owner

If the work to be done under this Contract shall be abandoned by the Contractor; or if this Contract shall be assigned, or the work sublet by him, otherwise than as herein specified; or if at any time the Owner shall be of the opinion that the performance of the Contract is unnecessarily or unreasonably delayed; or if the Contractor is willfully violating any of the conditions or covenants of this Contract, or of the Specifications, or is executing the same in bad faith or not in accordance with the terms thereof; or if the work be not fully completed within the time named in this Contract for its completion, or within the time to which the completion of the Contract may be extended by the Owner, the Owner may notify the Contractor to discontinue all work, or any part thereof under his Contract, by a written notice to be served upon the Contractor as herein provided.

The Contractor shall, within five (5) days of the service of said written notice, discontinue the work, or such part thereof, and the Owner shall thereupon have the power to contract for the completion of the Contract, in the manner prescribed by law; or to place such and so many persons as it may be deemed advisable, by contract or otherwise, to work, and complete the work herein described, or such part thereof; or to take possession of and use any of the materials, plant, tools, equipment, supplies, and property of every kind provided by the Contractor for the purpose of his work; and to procure other materials and equipment for the completion of the same; and to charge the expense of said labor, materials and equipment to the Contractor.

The expense so charged shall be deducted and paid by the Owner out of such moneys as may be due, or may at any time thereafter grow due to the Contractor under and by virtue of this Contract, or any part thereof; and in case such expense shall exceed the amount which would have been payable under the Contract, if the same had been completed by the Contractor, the Contractor or his surety shall pay the amount of such excess to the Owner within five (5) days of written demand therefore; and in case such expense shall be less than the amount which would have been payable under this Contract, if the same had been completed by the Contractor, the owner shall pay such difference to the Contractor within five (5) days of written demand.

XXVII Partial and Final Estimates

On, or about, the last day of the month, the Borough of Naugatuck Inspector shall make an approximate estimate of the value of the work done and of the materials incorporated into the work.

The Owner will pay the Contractor, within 30 days of receipt of an estimate, ninety-five percent (95%) of the total estimated value of the work done, as estimated by the Borough of Naugatuck Inspector less previous payments. Partial payments will not be made whenever the amounts of the estimate or estimates of work done since the last previous estimate are less than \$2,000.00.

The Borough of Naugatuck Inspector shall, as soon as practicable after the completion of work, make a final certificate of the entire amount of the work done under this Contract, and the value thereof, and the Owner shall, within thirty (30) days after such final estimate is approved, pay the entire sum so found to be due hereunder, after deducting there from all previous payments and also all percentages and deductions to be retained under any of the provisions of this Contract.

Before payment of each estimate, the Contractor shall provide the Owner with a mechanic's lien waiver from the Contractor and all persons who have done work or furnished materials under this Contract.

XXVIII Payment

The Owner, in consideration of the faithful performance by the Contractor of all and singular his covenants, promises, and agreements contained herein, agrees to pay the Contractor for the full completion by him of the work embraced in this Contract, in the manner and within the time herein specified and limited, and to the satisfaction and approval of the Borough of Naugatuck Inspector, the prices stipulated in the said Proposal hereto attached, such payment to be made at the times and in the manner and upon the conditions herein expressly provided. The Owner also agrees to pay in addition such amounts as may be agreed upon for modifications and for extra work.

XXIX Guarantee

The Contractor guarantees that the work done under this Contract and the materials furnished by him and used in the construction of the same are free from defects or flaws. The guarantee is for a term of one (1) year from, and after, the date upon which the final estimate of the Borough of Naugatuck Inspector is formally approved by the Owner. It is hereby agreed and understood that this guarantee shall not include making any repairs made necessary by any cause or causes other than defective materials furnished by, or defective work done by, the Contractor.

XXX Rate of Progress and Time of Completion

The Contractor shall commence work within ten (10) calendar days of the date of the Notice to Proceed. The rate of progress shall be such that the whole work, inclusive of any add alternates, shall be performed and the grounds cleaned-up in accordance with Time for Completion, Section 3 of the supplemental conditions, unless extensions of time shall be made for the reasons, and in the manner, stated under Article XXXIII, "Extension of Time".

The allotted calendar days includes time for the Contractor to obtain approval of an Erosion and Sediment Control Plan, as applicable.

XXXI Extension of Time

The Contractor expressly covenants and agrees that, in undertaking to complete the work within the time mentioned, he has taken into consideration, and made allowance for, all of the ordinary delays and hindrances incidental to such work, whether growing out of delays in securing materials or workmen or otherwise. Should the Contractor, however, be substantially delayed in the prosecution and completion of the work by any changes, additions, or omissions therein ordered in writing by the Borough of Naugatuck Inspector, or by fire, lightning, earthquake, tornado, cyclone, riot, insurrection, or war, or by the abandonment of the work by the workman engaged therein through no fault of the Contractor, or by the discharge of all or any material number of workmen in consequence of difficulties arising between the Contractor and such workmen, or by the neglect, delay, or default of any other contractor of the Owner, then the Contractor may, within five (5) days after the occurrence of the delay for which he claims allowance, notify the Borough of Naugatuck Inspector thereof in writing, and thereupon, and not otherwise, the Contractor shall be allowed such additional time for the completion of the work as the Borough of Naugatuck Inspector, in his discretion, shall award in writing, and his decision shall be final and conclusive upon the parties.

XXXII Damages for Failure to Complete on Time

The Contractor shall pay to the Owner for each and every calendar day (including Saturdays, Sundays, and holidays) that he shall be in default in completing the entire work in the time stipulated in Article XXX, or within the extension of time he may be granted as provided in Article XXXIII, the sum of One Thousand Eight Hundred Dollars (\$1,800) per day. This sum is hereby agreed upon not as a penalty but as liquidated damages which Owner will suffer by reason of such default, time being of the essence of the Contract and a material consideration thereof. The Owner shall have the right to deduct the amount of any such damages from any monies due the Contractor under this Contract.

XXXIII No Waiver of Rights

No certificate given or payment made under this Contract, except the final certificate or final payment, shall be evidence of the performance of the Contract either wholly or in part, and no payment shall be construed to be an acceptance of defective work or improper materials. No act of the Owner or of the Borough of Naugatuck Inspector, or of any representatives of either of them in inspecting the work, nor any extension of time for the completion of the work, shall be regarded or taken as an acceptance of such work, or any part thereof, or materials used therein or thereof, either wholly or in part; but such acceptance shall be evidenced only by the final certificate of the Borough of Naugatuck Inspector.

Before any final certification shall be allowed, the Contractor shall be required, and he hereby agrees, to sign and attest on said certificate a statement that he accepts the same in full payment and settlement of all claims on account of work done and material furnished under this Contract, and furthermore, that all claims for materials provided or labor performed have been paid and satisfied in full. No waiver of any breach of this Contract by the Owner or anyone acting for it, or on its behalf, shall be held as a waiver of any other or subsequent breach thereof.

XXXIV Mandatory Negotiation

Contractor and the Owner agree that they will attempt to negotiate in good faith any dispute of any nature arising under this contract. The parties shall negotiate in good faith at not less than two negotiation sessions prior to seeking any resolution of any dispute under the provisions of arbitration paragraph of this contract. Each party shall have the right to legal representation at any such negotiation session.

XXXV Arbitration

Any dispute or question arising under the provisions of this contract which has not been resolved under the mandatory negotiation paragraph of this contract shall be determined by arbitration. Arbitration proceedings shall occur at a neutral location in Waterbury, Connecticut, and shall be conducted in accordance with the rules then applicable of the American Arbitration Association. Arbitration shall proceed before a pane of one arbitrator to be selected by American Arbitration Association. The decision of the Arbitrator shall be final and may be entered in any court having jurisdiction thereof. Each party shall pay one-half of all costs and expenses of such arbitration.

XXXVI Owner's Right to Use

The Owner reserves the right to use or occupy any portion of the work considered by the Borough of Naugatuck Inspector as ready for use or occupancy. Such use or occupancy shall not be held, in any way, as final acceptance of the work or any portion thereof, or as a waiver of any portion of this Contract.

XXXVII Verification of Data

The quantities of work to be done and the materials to be furnished under this Contract, as given in the accompanying "Information for Bidders" and on the Proposal form, are approximate estimates for the purpose of comparing bids on a uniform basis. Neither the Owner nor the Borough of Naugatuck Inspector are to be held responsible for the data or information given relative to said quantities or that given on the Plans relative to existing conditions. The Contractor has judged for himself as to such quantities and as to other circumstances affecting the cost of the performance of this Contract, and he shall not at any time assert that there was any misunderstanding in regard to the character or amount of work to be done and materials and labor to be furnished.

XXXVIII Contractor's Wage Certification Form

If applicable the Contractor or his authorized agent will be required to sign the Contractor's Wage Certification Form at the time of Contract execution.

XXXIX Verbal Statements Not Binding

It is understood and agreed that the written terms and provisions of this Agreement shall supersede all prior verbal statements of the Borough of Naugatuck Inspector or other representatives of the Owner, and such statements shall not be effective or be construed as entering into or forming a part of, or altering in anyway whatsoever, the written Agreement.

XXXX Final Estimate Constitutes Release

It is agreed that acceptance by the Contractor of the last payment made, under the provisions of Article XXVII, shall operate as and shall be a release to the Owner, and every agent thereof, from all claims and liability to Contractor for anything done or furnished for, or relating to, the work or for any act or neglect of the Owner or any agent thereof.,

No payment, however, final or otherwise, shall operate to release the Contractor or his sureties from any obligations under this Contract.

XXXXI Delays or Termination by Governmental Authorities

Notwithstanding any other provision(s) of this contract, the parties agree that in the event of a stop work order from the State Department of Transportation, Department of Environmental Protection, or any other State or Federal agency, no additional compensation will be made by Owner to Contractor for delays, inconvenience or damage sustained by Contractor due to such order, including, without limitation, damages for loss of use of equipment or idle equipment. Similarly, in the event of a termination of the project by the State DOT, DEP or any other State or Federal agency, no additional compensation will be made by Owner to Contractor for the termination, or for any delay, inconvenience or damage sustained by Contractor due to such termination, including, without limitation, damages for loss of use of equipment or idle equipment. In the event of such termination, the Borough of Naugatuck Inspector shall prepare a final certificate for the entire amount of work done up to the effective date of termination. The provisions of Sections XXIX (Guarantee) shall apply to all work completed as of the effective date of any stop Work order, as if the effective date was the date upon which the final estimate of the Borough of Naugatuck Inspector is formally approved by the Borough.

XXXXII Validity of Agreement

The provision of this Agreement shall be binding upon the Parties and their respective successor or assigns.

IN WITNESS WHEREOF, the said parties hereto have caused this instrument to be signed by their respective duly constituted officers, attested, and sealed pursuant to proper resolutions.

Signed and sealed
in the presence of

Borough of Naugatuck
Mayor

(Duly Authorized)
Contractor

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS: that

(Name of Contractor)

(Address of Contractor)

a _____, hereinafter called Principal and
(Corporation, Partnership, or Individual)

(Name of Surety)

(Address of Surety)

hereinafter called Surety, are held and firmly bound unto

(Name of Owner)

(Address of Owner)

hereinafter called OWNER, in the penal sum of _____ Dollars,
\$(_____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the OWNER, dated the _____ day of _____, 20__, a copy of which is hereto attached and made a part hereof for the construction of: Excavation and Disposal of Controlled Materials Parcel B, NAUGATUCK, CONNECTICUT Contract No. FY23-B030

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, an any extensions thereof which may be granted by the OWNER, with or without notice to the Surety and during the one year guaranty period, and if he shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the OWNER from all costs and damages which may suffer by reason of failure to do so, and shall reimburse and repay the OWNER all outlay and expense which the OWNER may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that 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 WORK to be performed thereunder or the SPECIFICATIONS accompanying the same shall in anyway 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.

PROVIDED, FURTHER, that no final settlement between the OWNER and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in _____ counterparts each one of Which shall be deemed an original, this the _____ day of _____, 20__.

ATTEST:

_____	By _____
(Principal) Secretary	Principal _____(s)
(SEAL)	
_____	_____
(Witness as to Principal)	(Address)
_____	_____
(Address)	
_____	_____
	Surety

ATTEST:

(Surety) Secretary	
(SEAL)	
_____	By _____
Witness as to Surety	Attorney-in-Fact
_____	_____
(Address)	(Address)
_____	_____

NOTES: Date of BOND must not be prior to date of Contract.
If CONTRACTOR is Partnership, all partners should execute BOND.

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the PROJECT is located.

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: that

(Name of Contractor)

(Address of Contractor)

a _____, hereinafter called Principal
and _____
(Corporation, Partnership, or Individual)

(Name of Surety)

(Address of Surety)

hereinafter called Surety, are held and firmly bound unto

(Name of Owner)

(Address of Owner)

hereinafter called OWNER, in the penal sum of

_____ Dollars, \$(_____)

in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the Principal entered into a certain contract with the OWNER, dated the _____ day of _____, 201__, a copy of which is hereto attached and made a part hereof for the construction of: Excavation and Disposal of Controlled Materials Parcel B, NAUGATUCK, CONNECTICUT Contract No. FY23-B030

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, an any extensions thereof which may be granted by the OWNER, with or without notice to the Surety and during the one year guaranty period, and if he shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the OWNER from all costs and damages which may suffer by reason of failure to do so, and shall reimburse and repay the OWNER all outlay and expense which the OWNER may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that 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 WORK to be performed thereunder or the SPECIFICATIONS accompanying the same shall in anyway 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.

PROVIDED, FURTHER, that no final settlement between the OWNER and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in _____ counterparts each one of which shall be deemed an original, this the _____ day of _____, 20__.

ATTEST:

(Principal) Secretary

By _____ Principal _____(s)

(SEAL)

(Witness as to Principal)

(Address)

(Address)

ATTEST:

Surety

(Surety) Secretary

(SEAL)

Witness as to Surety

By _____ Attorney-in-Fact

(Address)

(Address)

NOTES: Date of BOND must not be prior to date of Contract.
If CONTRACTOR is Partnership, all partners should execute BOND.

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the PROJECT is located.

STATE OF CONNECTICUT
LABOR DEPARTMENT

REGULATION OF WAGES

CONTRACTORS WAGE CERTIFICATION FORM

I, _____ of _____

do hereby certify that the _____
Company Name

_____ Street

City, State, Zip Code _____

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 or prevailing rates required for such project (a copy of which is attached hereto).

Signed

Subscribed and sworn to before me this _____ day _____, 20__.

Notary Public

Return to: Labor Department
Regulation of Wages
200 Folly Brook Blvd.
Wethersfield, CT 06209

Form AU-766 Guarantee Bond



Purpose: A nonresident contractor working in Connecticut and a surety company licensed to do business in Connecticut use **Form AU-766** to post a guarantee bond with the Department of Revenue Services (DRS) for a specific project in the state. The guarantee bond ensures all taxes due to the State of Connecticut from the contractor are paid to DRS. Read the instructions on the reverse side before you complete this form. If you need help, call **860-541-7538**, Monday through Friday, during business hours.

Part I: Nonresident Contractor Information		
Name	Connecticut Tax Registration No.	
Address (Street or PO Box, City, State, and ZIP Code)		
Part II: Person Doing Business With a Nonresident Contractor Information		
Name	Connecticut Tax Registration No., Federal ID No., or SSN	
Address (Street or PO Box, City, State, and ZIP Code)		
Part III: Surety Company Information		
Name	Bond No.	Amount of Bond
Address (Street or PO Box, City, State, and ZIP Code)		
Part IV: Project Information <input type="checkbox"/> Check the box if this bond is for a change order.		
Physical Location of Project (Street, City or Town)		Name of Project
Commencement Date	Completion Date for Nonresident Contractor	Total Contract Price or Amount of Change Order
<p>Conditions of the obligation for the project detailed above:</p> <ul style="list-style-type: none"> • The nonresident contractor has entered into a contract related to real property at a Connecticut location. • The nonresident contractor and the surety company are posting a bond of 5% of the total contract price, including any change orders and add-ons, with DRS to ensure that all taxes that become due and owing during the period of the contract will be paid. • A bond must be posted within 120 days of the commencement of the contract or 30 days after the completion of the contract, whichever is earlier. • If the nonresident contractor pays all taxes, interest, and penalties within three years from the last day of the month succeeding the reporting period in which the contractor posted the bond, the bond expires; otherwise the obligation remains in full force. • This bond jointly and severally binds the nonresident contractor and the surety company, their heirs, executors, administrators, successors, and assigns for payment of this obligation. 		
<p>Nonresident Contractor Declaration: I, the nonresident contractor named above or its authorized agent, declare under the penalty of law that I have examined Form AU-766 and, to the best of my knowledge and belief it is true, complete, and correct. I understand the penalty for willfully delivering a false document or return to DRS is a fine of not more than \$5,000, or imprisonment for not more than five years, or both.</p>		
Print Name		Title
Authorized Signature		Date
<p>Surety Company Declaration: I, an authorized agent of the surety company named above, declare under the penalty of law that I have examined this Form AU-766 and, to the best of my knowledge and belief it is true, complete, and correct. I understand the penalty for willfully delivering a false document or return to DRS is a fine of not more than \$5,000, or imprisonment for not more than five years, or both.</p>		
Print Name		Seal:
Title		
Authorized Signature		Date

General Instructions

A nonresident contractor and a surety company licensed to do business in Connecticut must execute **Form AU-766, Guarantee Bond**, to post a guarantee bond with the Department of Revenue Services (DRS) for a specific project in Connecticut. A power of attorney for the person signing the bond on behalf of the surety company **must** be attached to the bond, carry the corporate seal of the surety company, and bear the same date as the execution date of the bond.

A nonresident contractor has the option of filing a guarantee bond or a cash bond instead of the customer making a deposit with DRS under Conn. Gen. Stat. §12-430(7)(B). Under this option, the nonresident contractor has 120 days from the commencement of the contract or 30 days after the completion of the contract, whichever is earlier, to file a guarantee bond or a cash bond (Form AU-72) with DRS.

Return Form AU-766 to: Department of Revenue Services
Discovery Unit
25 Sigourney Street
Hartford CT 06106-5032

See **Special Notice 2005(12), Nonresident Contractor Bonds and Deposits**, for more information.

Nonresident contractor means a contractor who does not maintain a regular place of business in Connecticut.

Regular place of business means:

- Any bona fide office, factory, warehouse, or other space in Connecticut at which a contractor is doing business in its own name in a regular and systematic manner; **and**
- Which place is continuously maintained, occupied, and used by the contractor in carrying on its business through its employees regularly in attendance to carry on the contractor's business in the contractor's own name.

A regular place of business **does not include**:

- A place of business for a statutory agent for service of process or a temporary office whether or not it is located at the site of construction;
- Locations used by the contractor only for the duration of the contract, such as short-term leased offices, warehouses, storage facilities, or facilities that do not have full time staff with regular business hours; **or**
- An office maintained, occupied, and used by a person affiliated with a contractor.

Contract price means the total contract price, including deposits, amounts held as retainage, costs for any change orders, or charges for add-ons.

Person doing business with a nonresident contractor means any person who makes payments of the contract price to a nonresident contractor, and includes, but is not limited to property owners, governmental, charitable or religious entities, and resident or nonresident general contractors or subcontractors. An owner or tenant of residential real property is not a person doing business with a nonresident contractor and is not required to comply with the provisions of Conn. Gen. Stat. §12-430(7). However, the nonresident contractor doing business with such an owner or tenant must comply with the bond requirements under Conn. Gen. Stat. §12-430(7)(F).

Commencement of the contract means the time when the nonresident contractor signs the contract, but, in any event, occurs no later than when the work under the contract actually starts. If a change order is made after the commencement of the original contract, the change order commences when it is signed by the nonresident contractor, but, in any event, occurs no later than when the work under the change order actually starts.

Form AU-766(Back) (Rev. 10/05)

Completion of the contract means the time when the nonresident contractor makes the final periodic billing for the contract. The final periodic billing may be due before payment of any retainage becomes due. If a change order is made after the final periodic billing for the original contract, the change order is complete when the nonresident contractor bills for the change order.

Residential real property means real property used exclusively for residential purposes and consisting of three or fewer dwelling units in one of which the owner or tenant resides.

Any bond that bears an erasure or alteration, regardless of its nature, must have the change authenticated by a notation in the margin. The notation should describe the correction and be signed in the name of the surety company by the officer who executed the bond and must bear the corporate seal of the surety company.

Specific Instructions

Part I: Enter the name and complete address of the nonresident contractor furnishing the bond. Include the nonresident contractor's Connecticut tax registration number. The name and address of the nonresident contractor appearing on the bond must agree with the name and address on **Form REG-1, Business Taxes Registration Application**, filed with DRS. (If the information originally provided on Form REG-1 is now incorrect, you must notify the DRS Registration Unit in writing of the correct information.) If the nonresident contractor is a corporation, the corporate name appearing on the bond must be the same shown in the records of the Office of the Secretary of State, or similar agency of another state if the nonresident contractor is not a Connecticut corporation.

Part II: Enter the name and complete address of the person doing business with the nonresident contractor. If the nonresident contractor is the general contractor, enter the name and address of the owner or tenant of the property who has entered the contract. If the nonresident contractor is a subcontractor, enter the name and address of the general contractor.

Enter the Connecticut tax registration number of the person doing business with the nonresident contractor. If the person doing business with the nonresident contractor does not have a Connecticut tax registration number, enter that person's Federal Employer Identification Number or Social Security Number.

Part III: Enter the name and complete address of the surety company that guarantees this bond. Include the bond number.

Part IV: Check the box if the deposit is for a change order occurring after the bond for the initial contract was furnished to DRS.

Enter the name of the project and the complete address including the street address and the city or town where the project is physically located.

Enter the commencement date of this project or change order.

Enter the date by which the nonresident contractor is expected to complete work on this project or change order.

Enter, in words and figures, the total amount to be paid to the nonresident contractor under the contract. Indicate if this amount is an estimate.

Declarations: An authorized representative for the nonresident contractor and the surety company must sign and date the declaration on Form AU-766. The name of the nonresident contractor and the surety company must be exactly as it appears on the bond. The corporate seal of the surety company must be affixed by its signature on Form AU-766.

NON-COLLUSION AFFIDAVIT OF PRIME BIDDER

State of _____)

) ss.

County of _____)

_____, being first duly sworn, deposes and says that:

- 1. He is _____ of _____ herein referred to as 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 Borough of Naugatuck 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 _____, 20__

(Notary Public)

My Commission expires _____

NON-COLLUSION AFFIDAVIT OF SUBCONTRACTOR

State of _____)

) ss.

County of _____)

_____, being first duly sworn, deposes and says that:

1. He is _____ 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 Naugatuck, Connecticut;
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 Borough of Naugatuck 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.
6.
 - (a) No proposed subcontractor shall be disapproved by the Borough of Naugatuck except for cause.
 - (b) The Contractor shall be fully responsible to the Borough of Naugatuck 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 Borough of Naugatuck.

(Signed) _____

Title

Subscribed and sworn before me

This _____ day of _____, 20__

(Notary Public)

My commission expires _____

(e) No proposed subcontractor shall be disapproved by the Borough of Naugatuck except for cause.

(f) The Contractor shall be fully responsible to the Borough of Naugatuck 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.

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: Excavation and Disposal of Controlled Materials Parcel B – Area 5, NAUGATUCK, CONNECTICUT Contract No. FY23-B030

(a) Nothing contained in this Contract shall create any contractual relationship between any subcontractor and the Borough of Naugatuck.

OTHER CONTRACTS

The Borough of Naugatuck 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 Borough of Naugatuck. The Contractor shall not commit or permit any act which will interfere with the performance of work by any other Contractor as scheduled.

STATE OF CONNECTICUT
Certificate of Compliance with
Connecticut General Statute Section 31 - 57b

I hereby certify that all of the statements herein contained below have been examined by me, and to the best of my knowledge and belief are true and correct.

The _____ **HAS / HAS NOT**
Company Name (Cross out Non-applicable)

been cited for three (3) or more willful or serious or serious violations of any Occupational Safety and Health Act (OSHA) or of any standard, order or regulation promulgated pursuant to such act, during the three year period preceding the bid, provided such violations were cited in accordance with the provisions of any State Occupational Safety and Health Act of 1970, and not abated within the time fixed by the citation and such citation has not been set aside following appeal to the appropriate agency of court having jurisdiction or **HAS / HAS NOT** (Cross out Non-applicable) received one or more criminal convictions related to the injury or death of any employee in the three-year period preceding the bid.

The list of violations (if applicable) is attached.

(Name of Firm, Organization or Corporation)

Signed:

Written Signature:

Name Typed: (Corporation Seal)

Title:

(Title of Above Person, typed)

Dated:

State of _____)
County of _____) *ss: A.D., 20* _____
_____)

Sworn to and personally appeared before me for the above, _____
(Name of Firm, Organization, Corporation)

Signer and Sealer of the foregoing instrument of and acknowledged the same to be the free act and deed of

_____, and his/her free act and deed as
(Name of Person appearing in front of Notary or Clerk)

(Title of Person appearing in front of Notary or Clerk)

My Commission Expires:

(Notary Public) (Seal)

GENERAL REQUIREMENTS

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GENERAL REQUIREMENTS

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Excavation and Disposal of Controlled Materials Parcel B
NAUGATUCK, CONNECTICUT
Contract No. FY23-B030

GENERAL REQUIREMENTS

1. Scope of Work

The project consists of:

1. Excavate and dispose of approximately 350 cubic yards of PCB Remediation Waste with a maximum concentration of 47 ppm from excavation of TP-15 and the designated "Area 5" location. The soils will be disposed at a TSCA approved disposal facility in accordance with 40 CFR §761.61(a)(5)(i)(B)(2)(iii);
2. Assist the Owner's representative to perform post-excavation PCB soil sampling and analyses, to verify the removal of high level PCB impacts (e.g. PCB concentrations greater than 10 ppm). At the limits of the excavation, verification samples will be collected on a 1.5 meter by 1.5-meter grid (or 5 foot by 5-foot grid), as specified by 40 CFR 761, Subpart O. Based on the estimated extent of remedial excavation, Subpart O sampling will require analysis of approximately 60 confirmatory soil samples.
3. Backfill and compact the excavation in lifts using clean granular fill. Decontaminate equipment in contact with PCB Remediation Waste in accordance with 40 CFR 761.61 Subpart S.

The Borough reserves the right to decrease the Scope of Work to be done under this Contract, select bid or alternate items in its best interest, or to omit any work in order to bring the cost within available funds. Exercise by the Borough of the above rights shall not constitute any grounds or basis of claim for damages or for anticipated profits on work omitted.

2. Standards

Wherever reference is made in this Contract 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.

Abbreviations are defined as follows:

ASTM --	American Society of Testing and Materials.
ANSI --	American National Standards Institute
ASA --	American Standards Association
ACI --	American Concrete Institute
AASHTO --	American Association of State Highway and Transportation Officials
ASME --	American Society of Mechanical Town of Deep River Inspectors
IEEE --	Institute of Electrical and Electronics Engineers
AWWA--	American Water Works Association
ACPA--	American Concrete Pipe Association

3. Contract Drawings and Working Drawings

The work is shown on the accompanying Contract Drawings. Such additional working drawings, as required because of changes or to provide greater detail, will be provided by the Engineer.

4. Alterations

The Engineer may make alterations to the line, grade, plan, form, dimensions, or materials of the work, or any part thereof, either before or after the commencement of the work. If such alterations increase the quantity of work, such increase will be paid for according to the quantity of such extra work actually done and at the prices stipulated for such work under unit price Items of the Contract. In case no unit price is applicable, the alterations will be paid for as extra work defined in Article XXVIII of the Contract.

5. Planimeter

The use of the planimeter shall be considered satisfactory for estimating quantities where geometric and analytic methods would be comparatively laborious.

6. Contractor's Schedule of Operations

The Contractor shall submit, within ten (10) days of the date of the Notice to Proceed, a preliminary schedule of operations for the project to the Inspector for approval. The approved preliminary schedule shall be used to prepare a detailed schedule of the principal construction events including all proposed purchase and delivery dates for items with critical delivery times. A supplemental bar graph shall also be prepared based on this construction schedule. The detailed schedule and supplemental bar graph shall be submitted within ten (10) days of the date of the Notice to Proceed.

The status of the project shall be evaluated monthly by the Contractor and shall be compared to the original schedule which shall be revised, if necessary, and reissued.

7. Coordination with Other Contractors and Utilities

During the progress of the work, other contractors and/or utilities may be engaged in performing work in the area. The Contractor shall coordinate the work to be done under this Contract with the work of others.

8. Cost Breakdown

Prior to the first estimate for payment to the Contractor, the Contractor shall submit to the Engineer for approval a detailed cost breakdown of the various amounts to be paid for within each Lump Sum Item, as applicable. It shall also include, but not necessarily be limited to, proportional amounts for bonds, insurance and miscellaneous works which are to be paid for throughout the life of the Contract, and which are not specifically included for payment under other Items and/or Division of the Contract.

9. Estimated Quantities

To aid the Inspector in determining quantities to be paid for, the Contractor shall, whenever requested, give the Inspector access to the proper invoices, bills of lading, or other pertinent

documents and shall provide methods and assistance necessary for weighing or measuring materials.

10. Payment for Miscellaneous Work

No direct payment will be made to the Contractor for furnishing and providing miscellaneous temporary works, plants, and services, including Contractor's office, sanitary requirements, water supply, power, tools, equipment, lighting, telephone systems, store houses, store yards, safety devices, permits, insurances, bonds, watchmen, cleanup and the like, or other items specified under these General Requirements, 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.

11. Drawings and Information to be furnished by the Contractor

For materials and equipment not supplied by the Owner, the Contractor shall promptly furnish to the Engineer, for his information, three (3) copies of drawings in detail of the materials, equipment, piping, and structural details for any part of the work for which Drawings are not to be issued by the Inspector. Before placing orders for any manufactured item or part of structure, he shall also submit three (3) copies, for approval, of detailed lists and descriptions of the various materials, fixtures, fittings and supplies which he proposes to use in the work, and also the names of individuals or companies who propose to furnish or manufacture the same. Copies of the results of all tests of materials and equipment shall be furnished by the Contractor immediately following the performance of required tests.

Prior to the submittal of shop drawings, the Contractor shall check, approve, initial and date the drawings and shall also indicate by reference the Standard Specification, Special Provision and/or Plan which covers the item. Submittals will be returned to the Contractor if they have not been properly processed by him.

Approval by the Inspector of shop drawings for any material, apparatus, device and layout shall not relieve the Contractor from the responsibility of furnishing same of proper dimension, size, quality, quantity and all performance characteristics to efficiently perform the requirements and intent of the Contract Documents. Approval shall not relieve the Contractor from the responsibility for errors of any sort on the shop drawings. If the shop drawings deviate from the Contract Documents, the Contractor shall advise the Inspector of the deviations in writing, including the reasons for the deviation.

In the event the Contractor obtains the Engineer's approval for the material, manufactured items, or equipment, other than that which is shown on the Plans or specified herein, the Contractor shall, at his own expense, make any changes as required in the structures, buildings, piping, or any other portion of the work necessary to accommodate the approved material, manufactured item, or equipment.

12. Substitution Clause

Whenever in the Contract Documents any item of equipment or material is designated by reference to a particular brand, manufacturer or trade name, it is understood that an approved equal product, acceptable to the Inspector, may be substituted by the Contractor, except where expressly noted as "no substitutions."

13. Contract Limits

The Contractor shall confine his activities to within street lines, easements, and right-of-way.

The Contractor shall take particular care to existing walls, protect trees and shrubs and private personal property. He shall make good any damage to the satisfaction of the Inspector.

The Contractor shall not enter upon or make use of any private property along the line of work, outside the limits of the rights-of -way, except when written permission is secured from the owner of said property and a copy delivered to the Inspector. The Contractor shall be held responsible for all damages or injury, done by himself or those in his employ, to any private or public property of any character during the prosecution of the work. The Contractor shall restore or repair at his own expense, in a manner satisfactory to the Inspector, such property as may be damaged by his operations during the prosecution of the work.

In case of failure on the part of the Contractor to restore or repair such property in a manner satisfactory to the Owner, the Owner may, upon 48 hour notice to the Contractor, proceed with such restoration or repair. The expense of such restoration or repair shall be deducted from any monies which are due or may become due the Contractor under this Contract.

14. Work in Easements

Not applicable in this Contract.

15. Cleaning up the Site

During the progress of the work, the Contractor shall keep the construction areas in a neat condition, free from accumulations of waste materials and rubbish. Lunch papers, bottles, lumber cut-offs, drinking cups and like rubbish shall be removed from the site daily. No alcoholic beverages will be permitted at the construction site(s).

On, or before the completion of the work, and before acceptance and final payment shall be made, the Contractor shall clean and remove, from the site and adjacent property all surplus and discarded materials, rubbish, and temporary structures and restore, in an acceptable manner, all property and leave the whole area in a neat and presentable condition.

16. Storage of Materials

Materials shall be stored so as to insure the preservation of their quality and fitness for the work. When considered necessary, they shall be placed on wooden platforms and covered or stored in a suitable building, as directed by the Inspector. Stored materials shall be located so as to facilitate prompt inspections.

Materials and equipment supplied by the Owner shall be jointly inspected by the Owner and the Contractor and shall, upon acceptance by the Contractor, become the Contractor's responsibility to make good any damage to the materials and equipment until they have been incorporated and accepted in the work.

17. Removal of Condemned Materials

The Contractor shall remove from the site of the 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.

18. Hauling Materials

Before starting any work, the Contractor shall arrange, with the Municipal or State officials having jurisdiction, for the use of routes of travel for hauling materials, including surplus earth and rock, 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, unless otherwise approved.

19. Accommodation of Traffic

During the progress of the work, all streets shall be kept open for the passage of traffic and pedestrians and shall not be obstructed unless authorized by the authority having jurisdiction over same. Driveways, sidewalks, and areas of roadway shall be closed as short a time as possible while work is in progress and passage shall be restored by the close of work every day, by properly placed backfill or approved bridging. The Contractor shall notify residents prior to working in front of their home or business. The Contractor shall take such measures at his own expense as may be necessary to keep the street open for traffic and shall give advance notice to the Fire and Police Departments, and the Board of Education of his proposed street operations. He further agrees to be responsible for all legal notices to the public concerning the state of the roads while the work is in progress.

Warning signs shall be provided along all streets while work is in progress and, where traffic direction is required, flag men shall be designated by the Contractor to direct traffic past the equipment, machinery or construction operations. Barricades and lights shall be provided as required to protect life and property. Where trenches have been cut in streets on which traffic may pass at times, warning signs shall be placed at frequent intervals and maintained until the street is safe for travel. All such work and operations shall be in accordance with requirements of the Owner, Standard Specifications and Special Provisions herein. The use of unauthorized or unapproved signs, barricades, or traffic delineators will not be permitted.

The Contractor shall construct, maintain, without extra compensation, such adequate and proper bridges over excavations as may be necessary or directed for the purpose of accommodating pedestrians and vehicles. Ingress and egress to private property, satisfactory to the Inspector, shall be continuously provided.

Should the Contractor or his employees neglect to set out and maintain barricades or lights, as required in the Specifications, the Inspector may immediately and without notice arrange for furnishing, installing and maintaining barricades or lights and any other precaution deemed necessary. The cost thereof shall be borne by the Contractor and may be deducted from any amount due or to become due to the Contractor under this Contract.

The Contractor shall be held responsible for any damages that may have to be paid as a consequence of the Contractor's failure to protect the public.

20. Temporary Roads and Driveways

The Contractor shall be responsible for providing and maintaining such temporary access roads, to and along right-of-way. Where temporary roads, necessary for the transportation of materials and equipment are on private property, the Contractor shall obtain permission from the property

owners and the Borough for their construction and use and pay all costs pertaining thereto.

21. 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 sweeping application of water spray 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 and the application of water as necessary, all at no additional cost to the owner.

22. 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.

23. Work in Inclement Weather

During freezing, storm 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.

24. Working Hours

The Contractor's working schedule shall be confined to a five (5) day week, Monday through Friday, and the working day shall be confined between the hours of 7:00 a.m. and 5:00 p.m. current local time, unless otherwise approved by the Engineer.

Unless otherwise permitted by the inspector, no work shall be done between the hours of 5:00 p.m. and 7:00 a.m. except as necessary for the proper care and protection of the work already performed. If it shall become absolutely necessary to perform work at night, this shall be approved by the Inspector at least 24 hours in advance, of the beginning of the performance of such work. Only such work shall be done at night as can be done satisfactorily and in a first-class manner. Good lighting and all other necessary facilities for carrying out and inspecting the work shall be provided and maintained at all points where such work is being done.

25. Emergency Work

The Contractor shall file, with the Borough of Naugatuck Engineer, the name and telephone number of a person authorized by him who may be contacted regarding emergency works at the job site that may be required during non-working hours for reasons of public safety.

This person shall be readily available and full Authority to deal with any emergency that may occur.

26. Sedimentation and Erosion Control

The Contractor shall prepare and submit for approval a sedimentation and erosion control plan for the work, prior to the start of construction.

27. Work Near Brook(s) and Stream(s)

Care shall be taken to prevent, or reduce to a minimum, any damage to any water body from pollution by debris, sedimentation, or other material, or from manipulations of equipment and/or materials near such water bodies and on abutting property. Particular care shall be taken to prevent gasoline, diesel fuel, and other oils from entering any water body.

28. Work Within or Near Areas Designated as Inland Wetlands

Care shall be taken to prevent, or reduce to a minimum, any damage to any inland wetland from pollution by debris, sedimentation, or other material, or from manipulations of equipment and/or materials near such water bodies and on abutting property. Particular care shall be taken to prevent gasoline, diesel fuel, and other oils from entering any inland wetland.

29. 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 for 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.

30. General Sanitary Requirements

Replacement and Resetting of Sanitary Manhole Frames and covers must be in accordance with the Special Provisions and Borough of Naugatuck Standards.

31. Water Supply and Electrical Energy

Not applicable for this Contract.

32. Contractor's Office

Not applicable for this Contract

33. Resident Engineer's Office

Not applicable for this Contract.

34. Explosives and Blasting

Not applicable for this Contract.

35. Sheet piling, Shoring, and Bracing

Where necessary, the sides of trenches and excavations shall be supported by adequate sheet piling, shoring and bracing. The Contractor shall be held accountable and responsible for the sufficiency of all sheet piling, 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 sheet piling 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 unit prices bid for the various Items of this Contract.

36. Existing Structures

All known surface and underground structures, except electric and telephone service connections, and water, gas and sewer service pipes, on or immediately adjacent to the work, are shown on the Plans. Sewer, drainage, water and gas mains, manholes and similar structures located in or adjacent to the location of the structures included in this Contract, are shown on the Contract Drawings, which locations should be considered approximate. This information is shown for the convenience of the Contractor in accordance with the best information available, but is not guaranteed to be correct or complete. The Contractor shall explore the route ahead of trenching and shall uncover all known obstructing pipes sufficiently to determine their location. Necessary changes in location may be made by the Engineer to avoid unanticipated obstructions.

Wherever water or gas mains, electric or telephone ducts, or electric or telephone poles are encountered and may be in any way interfered with, the Contractor shall keep the utility company involved fully informed in advance. The Contractor shall cooperate with the utility company in the protection, removal, relocation and replacement of such structures.

The Contractor shall, at his own expense, sustain in their places and protect from direct or indirect injury all utilities, pipes, poles, conduit, walls, buildings and other structures and property in the vicinity of his work, and he shall be responsible for all damage and assume all expense for direct or indirect injury caused by his work to any of them or to any person or property by reason of injury to them.

Guard rails, posts, guard cables, signs, poles, markers, mailboxes, fences, walls and stone walls, and other private improvements, which are temporarily removed, damaged or destroyed during construction, shall be replaced and restored to a condition as good as or better than existed and to the satisfaction of the Owner or Inspector.

The Contractor shall, at his own expense, retain the services of a licensed surveyor to replace property markers, on or adjacent to privately owned property, which have been disturbed during the course of construction.

37. 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.

38. Operation of Water Valves

Unless otherwise permitted, existing water valves shall not be operated by the Contractor. Whenever the operation of a water valve is necessary, the Contractor shall make arrangements, at least 24 hours in advance of the need, to have the Owner's forces perform the required operations. Contractor must prepare and distribute customer notices to all affected customers at least 24 hours prior to any shutdown of service.

39. Testing Laboratories

Prevailing Wage Rates:

- A. Prevailing wage rates shall apply to this contract
- B. The minimum wage rates, health, welfare and pension fund contributions are as determined by the State of Connecticut in accordance with the provisions of Section 31-53/31-54 of the Connecticut General Statutes.
- A. The wages paid on an hourly basis to any person performing the work of any mechanic, laborer or worker on the work herein contracted to be done and the amount of payment or contribution paid or payable on behalf of each such person to any employee welfare fund, as defined in subsection (h) of this section, shall be at a rate equal to the rate customary or prevailing for the same work in the same trade or occupation in the town in which such public works project is being constructed. Any contractor who is not obligated by agreement to make payment or contribution on behalf of such persons to any such employee welfare fund shall pay to each mechanic, laborer or worker as part of such person's wages the amount of payment or contribution for such person's classification on each pay day.
- B. The minimum current wage and benefit rates are set forth in the wage schedule (attached to the Bid Package). The Contractor will be bound and obligated by the Laws of Connecticut to insure payment to all workers involved with construction of this said Project.
- C. Certified payroll reports must be submitted to the Town.

SUPPLEMENTAL CONDITIONS

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SUPPLEMENTAL CONDITIONS

These Supplemental Conditions amend or supplement the General Conditions of the Construction Contract and other provisions of the Contract Documents as indicated below. All provisions which are not so amended or supplemented remain in full force and effect.

1. DEFINITIONS

- A. The Terms used in these Supplemental Conditions which are defined in the General Conditions of the Construction Contract have the meanings assigned to them in the General Conditions.
- B. Wherever used in the Contract Documents, the following words have the meanings indicated, which are applied to both the singular and the plural thereof:

"Plans" –See section 8 of supplemental conditions.

"Project Manual" - shall mean the bound volume containing the following Contract Documents:

- Legal Notice
- Information for Bidders
- Signed copy of the Bid Proposal Forms, with all attachments required for bidding
- Contract Forms
- General Requirements
- Supplemental Conditions
- Special Provisions
- Performance Bond and Payment Bond
- Certificate of Insurance
- Addenda
- Contract Drawings
- Self – Implementing Cleanup Plan
- USEPA PCB Cleanup and Disposal Approval
- Prevailing Wage Rates
- Insurance Agreement
- CHRO Information
- Project Sign Requirements

The word "Remove," where it applies to existing materials, shall mean remove entirely from the site unless material is approved by the Engineer for re-use. In addition, the word "remove" shall imply the permanent patching of all remaining work affected by removal. All existing materials which have been removed shall become the Contractor's property unless otherwise specified.

"As Necessary" or "As Required" - Work referred to as "As Necessary" shall be that work which is required for completed construction, but is not necessarily shown or described in the Contract Documents.

The word "Furnish" or the word "Supply" - shall mean purchase, delivery, and off-loading at the job site including all documentation, storage, and protection.

The word "Install" or the word "Apply" - shall mean set in place complete for normal use or service, all in accordance with the Contract Documents.

The word "Provide" - shall mean furnish (or supply) and install (or apply).

The words "Approved Equal" - shall mean any product which in the opinion of the Engineer is comparable in quality, durability, appearance, strength, performance, design, physical dimension, and arrangement to the product specified, and will function properly in accordance with the design intent.

The word "Product" - shall mean any item of equipment or material provided under the Contract Documents.

2. SCOPE OF WORK

The project consists of providing the Borough of Naugatuck, CT with Labor and equipment to Excavate, transport, dispose of and document the disposal of approximately 525 tons of Controlled/ impacted soil (PCB Remediation Waste). The site is located near the intersection of Maple Street and Old Fire House Road and 6 Rubber Ave, Naugatuck, CT 06770. Construction shall be in accordance with the Borough of Naugatuck's Design and Construction Standards, Form 817 (2016), all supplements thereto and special provisions provided herein.

The Borough reserves the right to decrease the Scope of Work to be done under this Contract, select bid or alternate items in its best interest, or to omit any work in order to bring the cost within available funds. Exercise by the Borough of the above rights shall not constitute any grounds or basis of claim for damages or for anticipated profits on work omitted.

3. TIME FOR COMPLETION

The Contractor shall commence work within ten (10) calendar days of the date of the written "Notice to Proceed" from the Owner and the Contractor shall fully complete this Contract within Sixty (60) days from the date of the written "Notice to Proceed."

4. LIQUIDATED DAMAGES

The Contractor shall proceed with the work at such rate of progress to ensure full completion within the time requirements stated above. It is expressly understood and agreed by and between the Contractor and the Borough that the Contract time for the completion of the work described herein shall be reasonable, taking into consideration the climatic and economic conditions and other factors prevailing in the locality of the work.

If the Contractor shall fail to complete the work within the Contract times, or extension of time granted by the Borough, then the Contractor and his sureties shall be liable for and shall pay to the Borough for each and every calendar day that he shall be in default in completing any given assignment in the time stipulated above, the sum of \$500. This sum is hereby agreed upon, not as a penalty, but as fixed liquidated damages which the Owner

will suffer by reason of such default, time being of the essence of the Contract and a material consideration thereof. The Owner shall have the right to deduct the amount of any such damages from any monies due the Contractor under this Contract.

5. PAYMENTS AND RETAINAGE

Monthly applications for payment shall be submitted to the Borough Engineer for consideration. Payment shall be made within thirty days after approval of the application for payment by the Borough.

An amount of 95 percent (95%) of the estimated amount due, less any payments previously made and/or any moneys to be held will be paid to the Contractor monthly. The balance will be retained by the Borough until final completion of the work. Final payment will not be made until final completion and acceptance by the Borough of all work covered by the Contract. The Contractor agrees that he will indemnify and save the Borough harmless for all claims growing out of the lawful demands of subcontractors, laborers, suppliers, and assignees.

6. PAYMENT OF WAGES

The Contract Documents contain a copy of the minimum wage rate schedule issued by the State of Connecticut Labor Department. Said wage rate schedule shall be posted at a conspicuous location on the project site.

The Contractor is cautioned that wage rates are continually changing and he shall ensure himself that the enclosed schedule is the latest issue, this being his responsibility.

7. FAIR EMPLOYMENT PRACTICES

The successful Contractor shall agree that neither he nor his subcontractors will refuse to hire or employ or to bar or to discharge from employment an individual, or to discriminate against him in compensation or ill terms, conditions, or privileges of employment because of race, color, religious creed, age, sex, national origin, or ancestry, except in the case of a bona fide occupational qualification or need.

The terms stated above are taken from Section 31-126 of the Connecticut General Statutes "Unfair Employment Practices."

8. CONTRACT DRAWINGS

The Contract Drawings for this project are as follows:

Sheet Title

Sheet in Set

Locus Plan	1
Site Plan	2
EXCAVATION AND DISPOSAL OF CONTROLLED MATERIALS PARCEL B- AREA 5 FIGURE 3	3
PCB Delineation Sampling Detail FIGURE 4	4
Subsurface Profile A-A'	5
Subsurface Profile B-B'	6
Area 5 Detail FIGURE 7	7

9. SAFETY

The Contractor shall perform all work in accordance with the latest local, state, and federal governmental laws and regulations including, but not limited to, the governmental safety regulations of the Department of Labor and Office of Safety and Health Administration suggested practices.

10. LINES, GRADES, AND MEASUREMENTS

The controlling lines and grades shall be as shown on the Contract Drawings. Additional batter boards, lines, grades and forms shall be furnished and set by the Contractor if he through willfulness or carelessness removes, or permits to be removed, any reference marks establishing said controlling lines and grades, before the performance of the work requires such removal. The replacement of such reference marks shall be at the Contractor's expense.

The Contractor shall make all measurements and check all dimensions necessary for the proper construction of the work as directed or as called for in the Standard Specifications and Special Provisions.

During the performance of the work, he shall make all necessary measurements to prevent misfitting in said work and be responsible therefore for the accurate construction of the entire work.

11. BLASTING AND EXPLOSIVES

Not applicable for this Contract.

12. PUBLIC ACCESS

Roads, including driveways, sidewalks, crossings and local businesses shall be diverted from the Work Area by means of temporary fencing or other traffic and pedestrian control measures acceptable to the Borough of Naugatuck.

13. UTILITIES

Utilities may be located within the area and may be adjacent to the construction work.

The Contractor shall make all the necessary arrangements with any utility that must be protected or relocated in order to accomplish the work. The Contractor shall be solely responsible for the protection of the operating condition of all active utilities within the areas

of construction and he shall take all necessary precautions to avoid damage to existing utilities. Any cost of temporary relocations for the Contractor's convenience shall be paid for by the Contractor.

The Contractor shall avail himself of the Connecticut Underground Utility Protection Plan. The Contractor shall notify "Call Before You Dig" at 811 or visit CBYD.com at least 72 hours prior to the start of any excavation work to request the mark-out of existing utilities. The Contractor shall coordinate the construction activities with all utility companies with facilities in the project, including the Borough.

14. TEMPORARY UTILITIES

Unless otherwise provided for in the Standard Specifications or the Special Provisions, the Contractor shall pay the cost of all temporary light, heat, electric power and water required for completion of the Contract. The necessary temporary utilities shall be installed at the start of the project.

15. TOILET ACCOMMODATIONS AND DRINKING WATER

The Contractor shall provide necessary sanitary toilet accommodations and drinking water for the workers. Separate facilities shall be provided for female workers.

16. SEQUENCE OF CONSTRUCTION

Prior to the start of construction, the Contractor shall prepare and submit a sequence of construction for approval by the Engineer. Such Sequence of Construction shall be identified in the Work Plan.

17. BEST MANAGEMENT PRACTICES FOR PROTECTION OF THE ENVIRONMENT

- a. No construction shall proceed until proper sedimentation and erosion control methods have been installed as the sequence of construction necessitates.
- b. No equipment, materials, or machinery shall be stored, cleaned, or repaired within 25 feet of any wetland or watercourse.
- c. No construction shall proceed until a method to prevent construction debris, paint, spent blast materials, or other materials from entering the wetland or watercourse has been implemented as the sequence of construction necessitates. These materials shall be collected and disposed of in an environmentally safe manner as determined by Federal, State, and local laws. The applicant shall monitor wind velocities and storm events during the conduct of such work, and shall cause such activity to cease if storm or wind conditions threaten to cause deposits of materials in the waterway.
- d. No objectionable materials resulting from any clearing activity shall be disposed of in any wetland or watercourse. This includes but is not limited to: stumps, tree roots, matted roots, wood chips, and other debris.
- e. No fill or materials shall be deposited in surrounding wetlands or watercourses.

- f. No dewatering is allowed under this contract without the specific approval of the Borough of Naugatuck. Where dewatering is necessary, the pump shall not discharge directly into the wetland or watercourse. Proper methods and devices shall be utilized, such as pumping the water into a temporary sedimentation basin, providing surge protection at the inlet and the outlet of pumps, or floating the intake of the pump, or other method to minimize and retain the suspended solids. If the pumping operation is causing turbidity problems, work shall cease until such time that turbidity controlling measures have been implemented.
- g. Dumping of oil or other deleterious materials on the ground is forbidden. The applicant shall provide a means of catching, retaining, and properly disposing of drained oil, removed oil filters, or other deleterious material. All oil spills shall be reported immediately to the DEEP/Hazardous Materials office at (860) 424-3338. Failure to do so may result in the imposition of a fine under Section 22a-450 of the Connecticut General Statutes.
- h. Every precaution shall be used while working in the vicinity of a waterway to prevent and minimize degradations of the existing water quality. All activities shall conform and be at all times consistent with applicable water quality standards, and management practices of the Federal Clean Water Act (1972), Connecticut's Water Quality Standards and other applicable State laws, and as defined in Form 817, Section 1.10, entitled "Environmental Compliance".

18. CALL-BEFORE-YOU-DIG

The Contractor's attention is called to the fact that they are obligated, by State Law, to notify the Public Utilities Control Authority. The Contractor shall avail himself of the Connecticut Underground Utility Protection Plan. The Contractor shall notify "Call Before You Dig" at 811 or visit CBYD.com at least two full working days prior to the start of any excavation work to request the mark-out of existing utilities. The Contractor shall coordinate the construction activities with all utility companies with facilities in the project, including the Borough. The Contractor assumes all responsibilities for any damage to the various utility services, and all liabilities arising therefrom.

The Contractor shall make the necessary arrangements with the respective utility companies and provide grades for the resetting and adjusting of private utility company manhole and grade boxes, and the relocation of poles and hydrants; all at no additional costs to the Borough. Any delays, which are caused by conflicts with utility lines, shall not be considered as a basis of extending the time for completion.

19. DUST CONTROL

The contractor shall be responsible for controlling dust from its operations, and when ordered by the Engineer shall use whatever methods necessary for dust control, in a manner satisfactory to the Engineer. This work shall be paid for under the appropriate dust control item in the contract.

20. DESCRIPTION OF WORK

All materials furnished and used in the completed work shall be new, of best quality, and recognized as standard in construction practices. Whenever a specification number of

reference is given, the subsequent amendments (if any) shall be included. The standards set forth in the selection of materials and supplies are intended to conform to those standards adopted by the Owner. Preference in manufacture shall be given to adopted standards, and the Contractor shall further familiarize themselves with the requirements of the Owner when the occasion or choice of materials or supplies so demands.

21. METHODS OF CONSTRUCTION

No materials shall be used which are known or found to be defective in any way. Notice shall be given to the Owner of any defective or imperfect material. Defective or unfit material, found to have been used, shall be removed and replaced by the Contractor with sound and unobjectionable material without additional expense to the Owner. All materials furnished by the Contractor are subject to thorough inspections and tests by the Owner. The Contractor shall submit samples as stated in the Standard Specifications and Special Provisions or as required by the Owner, of the various materials used on the contract for testing purposes. All ordering lists shall be submitted for approval to the Owner by the Contractor.

22. MOBILIZATION

This item shall consist of all the work necessary for the movement of personnel and equipment to and from the project site, including obtaining necessary permits from CTDOT District IV office.

23. EXISTING CONDITIONS

Before submitting the bid, the Contractor shall examine the site, become familiar with the conditions, and verify the information in the Contract Drawings. Any discrepancy between the information provided in the Contract Documents and actual field conditions, the Contractor shall make a note of it and bring it to the attention of the Engineer prior to bid. No claims for extras will be allowed based upon differences that could have been discovered by the Contractor prior to bid.

24. EXISTING STORM AND SEWER LINES

The Contractor shall be responsible for maintaining and protecting all existing storm drainage and sewer lines encountered in the work under this contract. Hand excavation and adequate bracing and shoring shall be employed where required to insure the structural integrity of said existing structures. The Contractor shall hold the Borough of Naugatuck harmless and shall be solely responsible for any liabilities or damages arising from their work near, under, or through existing sewers and culverts. The Contractor shall repair and replace, as required by the Borough, any existing sewers or culverts damaged as a result of their work. No payment by the Borough for work covered in this section, unless authorized in writing by the Borough of Naugatuck.

25. SURPLUS EXCAVATED MATERIAL

The Contractor shall take ownership of all excavated material and is responsible for the proper removal and off-site disposal of all excavated material from the project site.

26. DAILY CLEANUP

The Contractor shall at the end of each workday, keep the project area clean, and free from debris, excavation materials, or any other items considered as trash. These items shall be disposed of daily in a legal manner at an approved dumping site. No extra payment shall be made for any work involved in this section.

27. CONSTRUCTION SCHEDULE

At the preconstruction meeting held by the Borough, the Contractor shall furnish a detailed anticipated construction schedule for review and approval by the Borough prior to monthly payments to the Contractor. This construction schedule shall be revised to show progress to date and anticipated future progress and submitted to the Borough.

28. PROJECT MEETINGS

The Borough or its designated agent shall inspect all work performed by the Contractor and regularly scheduled project meetings with Borough staff, the Contractor, and the Engineer will be required on a bi-weekly basis to review progress of the work. Meetings are to be held at a site adjacent to or on the work site as determined by the Borough of Naugatuck. The meetings are to be chaired by a designated representative of the Borough of Naugatuck.

29. UTILITY COORDINATION

The Contractor shall coordinate the construction activities with all utility companies with facilities in the project area, including the Borough's. See Section 13 and 18 of the Supplemental Conditions.

SPECIAL PROVISIONS

ENVIRONMENTAL HEALTH AND SAFETY

Description

Under this Item, the Contractor shall establish protocols and provide procedures to protect the health and safety of its employees and subcontractors as related to the proposed construction activities performed within the Project Area of Environmental Concern (AOEC). Work under this Item consists of the development and implementation of a written Health and Safety Plan (HASP) that addresses the relative risk of exposure to potential hazards present within Project limits. The HASP shall establish health and safety protocols that address the relative risk of exposure to regulated substances in accordance with 29 CFR 1910.120 and 29 CFR 1926.65. Such protocols shall only address those concerns directly related to site conditions.

Note: The Engineer will prepare a site-specific HASP, which is compatible with the Contractor's HASP and will be responsible for the health and safety of all Project Inspectors, Department employees and consulting engineers.

Materials

The Contractor must provide chemical protective clothing (CPC) and personal protective equipment (PPE) as stipulated in the Contractor's HASP during the performance of work in areas identified as potentially posing a risk to worker health and safety for workers employed by the Contractor and all subcontractors.

Construction Methods

A. Existing Information

The Contractor shall utilize all available information and existing records and data pertaining to chemical and physical hazards associated with any of the regulated substances identified in the environmental site investigations to develop the HASP. A list of documents containing this data is found in "Notice to Contractor – Environmental Investigations."

B. General

The requirements set forth herein pertain to the provision of workers' health and safety as it relates to proposed Project activities when performed in the presence of hazardous or regulated materials or otherwise environmentally sensitive conditions.

THE PROVISION OF WORKER HEALTH AND SAFETY PROTOCOLS, WHICH ADDRESS POTENTIAL AND/OR ACTUAL RISK OF EXPOSURE TO SITE SPECIFIC HAZARDS POSED TO CONTRACTOR EMPLOYEES, IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

The Contractor shall be responsible for the development, implementation and oversight of the HASP throughout the performance of work within the limits of the AOEC, as identified in the Contract Documents, and in other areas identified by the Engineer or by the HASP where site conditions may pose a risk to worker health and safety and/or the environment. **No physical aspects of the work within the AOEC shall begin until the HASP is reviewed by the Engineer and is determined to meet the requirements of the specifications. However, the Contract time, in accordance with Article 1.03.08, will begin on the date stipulated in the Notice to Proceed.**

C. Regulatory Requirements

All construction related activities performed by the Contractor within the limits of the AOEC or in other areas where site conditions may pose a risk to worker health and safety and/or the environment shall be performed in conformance with 29 CFR 1926, Safety and Health Regulations for Construction and 29 CFR 1910, Safety and Health Regulations for General Industry. Conformance to 29 CFR 1910.120, Hazardous Waste Site Operations and Emergency Response (HAZWOPER) may also be required, where appropriate.

D. Submittals

Three copies of the HASP shall be submitted to the Engineer within one (1) weeks after the Award of Contract or ten (10) days prior to the start of any work in the AOEC, whichever is first, but not before the Award of the Contract.

The HASP shall be developed by a qualified person designated by the Contractor. This qualified person shall be a Certified Industrial Hygienist (CIH), Certified Hazardous Material Manager (CHMM), or a Certified Safety Professional (CSP). He/she shall have review and approval authority over the HASP and be identified as the Health and Safety Manager (HSM). The HASP shall bear the signature of said HSM indicating that the HASP meets the minimum requirements of 29 CFR 1910.120 and 29 CFR 1926.65.

The Engineer will review the HASP within two (2) weeks of submittal and provide written comments as to deficiencies in and/or exceptions to the plan, if any, to assure consistency with the specifications, applicable standards, policies and practices and appropriateness given potential or known site conditions. Items identified in the HASP which do not conform to the specifications will be brought to the attention of the Contractor, and the Contractor shall revise the HASP to correct the deficiencies and resubmit it to the Engineer for determination of compliance with this item. The Contractor shall not be allowed to commence work activities in the AOEC, as shown on the Plans, or where site conditions exist which may pose a risk to worker health and safety and/or the environment, until the HASP has been reviewed and determined to conform to the requirements of this specification by the Engineer. **No claim for delay in the progress of work will be considered for the Contractor's failure to submit a HASP that conforms to the requirements of the Contract.**

HASP Provisions

1. General Requirements

The Contractor shall prepare a HASP covering all Project site work regulated by 29 CFR 1910.120(b)/1926.65(b) to be performed by the Contractor and all subcontractors under this Contract. The HASP shall establish in detail, the protocols necessary for the recognition, evaluation, and control of all hazards associated with each task performed under this Contract. The HASP shall address site-specific safety and health hazards of each phase of site operation and include the requirements and procedures for employee protection. The level of detail provided in

the HASP shall be tailored to the type of work, complexity of operations to be performed, and hazards anticipated. Details about some activities may not be available when the initial HASP is prepared and submitted. Therefore, the HASP shall address, in as much detail as possible, all anticipated tasks, their related hazards and anticipated control measures.

The HASP shall interface with the Contractor's Safety and Health Program. Any portions of the Safety and Health Program that are referenced in the HASP shall be included as appendices to the HASP. All topics regulated by the 29 CFR 1910.120(b) (4) and those listed below shall be addressed in the HASP. **Where the use of a specific topic is not applicable to the Project, the HASP shall include a statement to justify its omission or reduced level of detail and establish that adequate consideration was given to that topic.**

2. Elements

a. Site Description and Contamination Characterization

The Contractor shall provide a site description and contaminant characterization in the HASP that meets the requirements of 29 CFR 1910.120/1926.65.

b. Safety and Health Risk Analysis/Activity Hazard Analysis

The HASP shall address the safety and health hazards on this site for every operation to be performed. The Contractor shall review existing records and data to identify potential chemical and physical hazards associated with the site and shall evaluate their impact on field operations. Sources, concentrations (if known), potential exposure pathways, and other factors as noted in CFR 1910.120/126.65, paragraph (c)(7) employed to assess risk shall be described. The Contractor shall develop and justify action levels for implementation of engineering controls and personal protective equipment upgrades and downgrades for controlling worker exposure to the identified hazards. If there is no permissible exposure limit (PEL) or published exposure level for an identified hazard, available information from other published studies may be used as guidance. Any modification of an established PEL must be fully documented.

The HASP shall include a comprehensive section that discusses the tasks and objectives of the site operations and logistics and resources required to complete each task. The hazards associated with each task shall be identified. Hazard prevention techniques, procedures and/or equipment shall be identified to mitigate each of the hazards identified.

c. Staff Organization, Qualifications and Responsibilities

The HASP shall include a list of personnel expected to be engaged in site activities and certify that said personnel have completed the educational requirements stipulated in 29 CFR 1910.120 and 29 CFR 1926.65, are currently monitored under a medical surveillance program in compliance with those regulations, and that they are fit for work under "Level C" conditions.

The Contractor shall assign responsibilities for safety activities and procedures. An outline or flow chart of the safety chain of command shall be provided in the HASP. Qualifications, including education, experience, certifications, and training in safety and health for all personnel engaged in safety and health functions shall be documented in the HASP. Specific duties of each on-site team member should be identified. Typical team members include, but are not limited to Team Leader, Scientific Advisor, Site Safety Officer, Public Information Officer, Security Officer, Record Keeper, Financial Officer, Field Team Leader, and Field Team members.

The HASP shall also include the name and qualifications of the individual proposed to serve as Health and Safety Officer (HSO). The HSO shall have full authority to carry out and ensure compliance with the HASP. The Contractor shall provide a competent HSO on-site who is capable of identifying existing and potential hazards in the surroundings or working conditions which are unsanitary, hazardous or dangerous to employees and who has authorization to take prompt corrective measures to eliminate or control them. The qualifications of the HSO shall include completion of OSHA 40-hour HAZWOPER training, including current 8-hour refresher training, and 8-hour HAZWOPER supervisory training; a minimum of one year of working experience with the regulated compounds that have been documented to exist within Project limits; a working knowledge of federal and state safety regulations; specialized training or documented experience (one year minimum) in personal and respiratory protective equipment program implementation; the proper use of air monitoring instruments, air sampling methods and procedures; and certification training in first aid and CPR by a recognized, approved organization such as the American Red Cross.

The primary duties of the HSO shall be those associated with worker health and safety. The Contractor's HSO responsibilities shall be detailed in the written HASP and shall include, but not be limited to the following:

- i. Directing and implementing the HASP;
 - ii. Ensuring that all Project personnel have been adequately trained in the recognition and avoidance of unsafe conditions and the regulations applicable to the work environment to control or eliminate any hazards or other exposure to illness or injury (29 CFR 1926.21). All personnel shall be adequately trained in procedures outlined in the Contractor's written HASP;
 - iii. Authorizing Stop Work Orders, which shall be executed upon the determination of an imminent health and safety concern;
 - iv. Contacting the Contractor's HSM and the Engineer immediately upon the issuance of a Stop Work order when the HSO has made the determination of an imminent health and safety concern;
 - v. Authorizing work to resume, upon approval from the Contractor's HSM;
 - vi. Directing activities, as defined in the Contractor's written HASP, during emergency situations; and
 - vii. Providing personal monitoring where applicable, and as identified in the HASP.
- d. Employee Training Assignments
- The Contractor shall develop a training program to inform employees, supplier's representatives, and official visitors of the special hazards and procedures (including PPE, its uses and inspections) to control these hazards during field operations. Official visitors include but are not limited to Federal Agency Representatives, State Agency Representatives, Municipal Agency Representatives, Contractors, subcontractors, etc. This program shall be consistent with the requirements of 29 CFR 1910.120 and 29 CFR 1926.65.
- e. Personal Protective Equipment

The plan shall include the requirements and procedures for employee protection and should include a detailed section on respiratory protection. The Contractor shall describe in detail and provide appropriate PPE to insure that workers are not exposed to levels greater than the action level for identified hazards for each operation stated for each work zone. The level of protection shall be specific for each operation and shall be in compliance with all requirements of 29 CFR 1910 and 29 CFR 1926. The Contractor shall provide, maintain, and properly dispose of all PPE.

f. Medical Surveillance Program

All onsite Contractor personnel engaged in 29 CFR 1910.120/1926.65 operations shall have medical examinations meeting the requirements of 29 CFR 1910.120(f) prior to commencement of work.

The HASP shall include certification of medical evaluation and clearance by the physician for each employee engaged in 29 CFR 1910.120/1926.65 operations at the site.

g. Exposure Monitoring/Air Sampling Program

The Contractor shall submit an Air Monitoring Plan as part of the HASP, which is consistent with 29 CFR 1910.120, paragraphs (b)(4)(ii)(E), (c)(6), and (h). The Contractor shall identify specific air sampling equipment, locations, and frequencies in the air-monitoring plan. Air and exposure monitoring requirements shall be specified in the Contractor's HASP. The Contractor's CIH shall specify exposure monitoring/air sampling requirements after a careful review of the contaminants of concern and planned site activities.

h. Site Layout and Control

The HASP shall include a map, work zone delineation (support, contamination, reduction and exclusion), on/off-site communications, site access controls, and security (physical and procedural).

i. Communications

Written procedures for routine and emergency communications procedures shall be included in the Contractor's HASP.

j. Personal Hygiene, Personal Decontamination and Equipment Decontamination

Decontamination facilities and procedures for PPE, sampling equipment, and heavy equipment shall be discussed in detail in the HASP.

k. Emergency Equipment and First Aid Requirements

The Contractor shall provide appropriate emergency first aid kits and equipment suitable to treat exposure to the hazards identified, including chemical agents. The Contractor will provide personnel that have certified first aid/CPR training on-site at all times during site operations.

l. Emergency Response Plan and Spill Containment Program

The Contractor shall establish procedures in order to take emergency action in the event of immediate hazards (i.e., a chemical agent leak or spill, fire or personal injury). Personnel and facilities supplying support in emergency procedures will be identified. The emergency equipment to be present on-site and the Emergency Response Plan procedures, as required 29

CFR 1910.120, paragraph (1)(1)(ii) shall be specified in the Emergency Response Plan. The Emergency Response Plan shall be included as part of the HASP. This Emergency Response Plan shall include written directions to the closest hospital as well as a map showing the route to the hospital.

m. Logs, Reports and Record Keeping

The Contractor shall maintain safety inspections, logs, and reports, accident/incident reports, medical certifications, training logs, monitoring results, etc. All exposure and medical monitoring records are to be maintained according to 29 CFR 1910 and 29 CFR 1926. The format of these logs and reports shall be developed by the Contractor to include training logs, daily logs, weekly reports, safety meetings, medical surveillance records, and a phase-out report. These logs, records, and reports shall be maintained by the Contractor and be made available to the Engineer.

The Contractor shall immediately notify the Engineer of any accident/ incident. Within two working days of any reportable accident, the Contractor shall complete and submit an accident report to the Engineer.

n. Confined Space Entry Procedures

Confined space entry procedures, both permit required and non-permit required, shall be discussed in detail.

o. Pre-Entry Briefings

The HASP shall provide for pre-entry briefings to be held prior to initiating any site activity and at such other times as necessary to ensure that employees are apprised of the HASP and that this plan is being followed.

p. Inspections/Audits

The HSM or HSO shall conduct inspections or audits to determine the effectiveness of the HASP. The Contractor shall correct any deficiencies in the effectiveness of the HASP.

E. HASP Implementation

The Contractor shall implement and maintain the HASP throughout the performance of work. In areas identified as having a potential risk to worker health and safety, and in any other areas deemed appropriate by the HSO, the Contractor shall be prepared to immediately implement the appropriate health and safety measures, including but not limited to the use of PPE, and engineering and administrative controls.

If the Engineer observes deficiencies in the Contractor's operations with respect to the HASP, they shall be assembled in a written field directive and given to the Contractor. The Contractor shall immediately correct the deficiencies and respond, in writing, as to how each was corrected. Failure to bring the work area(s) and implementation procedures into compliance will result in a Stop Work Order and a written directive to discuss an appropriate resolution(s) to the matter. When the Contractor demonstrates compliance, the Engineer shall remove the Stop Work Order. If a Stop Work Order has been issued for cause, no delay claims on the part of the Contractor will be honored.

Disposable CPC/PPE (i.e. disposable coveralls, gloves, etc.) that come in direct contact with hazardous or potentially hazardous material shall be placed into 55 gallon USDOT 17-H drums and

disposed of in accordance with federal, state, and local regulations. The drums shall be temporarily staged and secured within a secure area of the Project, to be approved by the Engineer, for management by others.

F. HASP Revisions

The HASP shall be maintained onsite by the Contractor and shall be kept current with construction activities and site conditions under this Contract. The HASP shall be recognized as a flexible document which shall be subject to revisions and amendments, as required, in response to actual site conditions, changes in work methods and/or alterations in the relative risk present. All changes and modifications shall be signed by the Contractor's HSM and shall require the review and acceptance by the Engineer prior to the implementation of such changes.

Should any unforeseen hazard become evident during the performance of the work, the HSO shall bring such hazard to the attention of the Contractor and the Engineer as soon as possible. In the interim, the Contractor shall take action, including Stop Work Orders and/or upgrading PPE as necessary, to re-establish and maintain safe working conditions and to safeguard on-site personnel, visitors, the public and the environment. The HASP shall then be revised/amended to reflect the changed condition.

SITE PREPARATION

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK

- A. CONTRACTOR shall furnish all permits, materials, labor, equipment, tools and appurtenances required to complete the Work as described herein. The CONTRACTOR shall provide a "Competent Person" to implement, supervise, and inspect all Work.
- B. This Section describes materials and equipment to be utilized, and requirements for their use in preparing the Site for construction.
- C. CONTRACTOR shall comply with applicable codes, ordinances, rules, regulations and laws of local, State or Federal authorities having jurisdiction.
- D. CONTRACTOR will accompany OWNER upon mobilization while OWNER takes photographs or video to document the pre-construction condition of the work area and surrounding facilities.
- E. CONTRACTOR shall address the proposed approach to layout of the work area, lay-down areas, decontamination area(s), traffic controls and perimeter controls in the Site Management Plan (SMP). The CONSTRUCTION MANAGER, REMEDIAL DESIGNER, and OWNER shall review the SMP and provide a favorable review prior to commencement of the work. CONTRACTOR shall satisfactorily address comments on the SMP prior to mobilization.
- F. Protect and maintain existing structures, fences, benchmarks, monuments, and other reference points. Re-establish, at no cost to the OWNER, any such reference points if disturbed or destroyed by CONTRACTOR. CONTRACTOR's surveyor shall conduct a survey of all monuments and property markers within proposed Work areas prior to any disturbance so that they can be re-established if disturbed by the CONTRACTOR as part of this Contract.
- G. CONTRACTOR shall complete appropriate utility clearances prior to intrusive work, in accordance with requirements set forth by state and Borough regulations.
- H. Protect and maintain all existing utility poles, fences and all other facilities to remain in place as indicated on the Contract Documents.
- I. Protect any existing facilities, utilities, and structures from damage due to construction.
- J. A water source is available on-site that may be accessed for water needed for dust control and decontamination. CONTRACTOR will be responsible for providing all equipment and appurtenances necessary to access the water. CONTRACTOR shall coordinate with CONSTRUCTION MANAGER prior to accessing the water source. OWNER reserves the right to disallow the use of the water for any reason and is not responsible if the water is not available.
- K. CONTRACTOR is to provide portable restroom and hand washing facilities sufficient to meet project requirements for the duration of the Work.
- L. Electrical service is not available on-site. CONTRACTOR will be responsible for providing any service required to complete the work.

PART 2 – PRODUCTS

Not Used.

PART 3 - EXECUTION

- A. CONTRACTOR shall comply with all requirements of the Erosion and Sediment Control Permit.
- B. CONTRACTOR shall be held liable for any direct or consequential damage to property outside of the designated remedial excavation work area(s).
- C. CONTRACTOR shall be responsible for all damages to existing structures and/or improvements resulting from the Work.

*****END OF SECTION*****

EXCAVATION

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK

- A. CONTRACTOR shall furnish all labor, materials, equipment, tools, and appurtenances required to complete all excavation related activities, including, but not limited to, excavations, disposal of excess and/or unsuitable materials, relocation of excavated soils to designated areas, separation of topsoil, and other related and incidental work within the designated areas and as required for the construction of other aspects of the Work, as shown, specified or required by the Contract Documents. CONTRACTOR shall provide a "Competent Person" to implement, supervise, and inspect the Work.
- B. The Work of this Section includes, but is not limited to, excavation associated with the removal of PCB impacted soil; removal of metals impacted soil; construction of utility trenches; and excavation for removal of existing structures and utilities, if necessary.
- C. CONTRACTOR shall locate all existing active and abandoned utilities and structures in designated Work areas prior to commencing any excavation activities, including, but not limited to, existing sanitary and stormwater conveyance features and electrical conduits. CONTRACTOR shall also protect from damage those utilities and structures which are to remain in place. This work shall be conducted in strict accordance with the requirements outlined in the following documents:
 - i. "Self-Implementing Cleanup And Disposal, Of PCB Remediation Waste Notification, Former Uniroyal Parcel B: Area 5, 0 Water Street, Naugatuck, Connecticut", Down To Earth, LLC, June 23, 2021.
 - ii. PCB Cleanup and Disposal Approval under 40 CFR § 761.61(a) , Borough of Naugatuck, U.S. EPA, March 31, 2022
- D. CONTRACTOR shall locate, using soft dig techniques, all existing utilities that are within 10-ft, at a minimum, of the excavation area, if any.
- E. The CONTRACTOR shall comply with applicable codes, ordinances, rules, regulations and laws of local, State, or Federal authorities having jurisdiction.

1.02 SUBMITTALS

- A. CONTRACTOR shall submit a private utility clearance report prior to beginning intrusive work.
- B. Submit an Excavation Management Plan that shall include, but not be limited to the following:
 - 1. Procedures for completing excavations, including a description of procedures that will be used to protect underground utilities;
 - 2. Calculations and certifications for use of any shoring and bracing equipment, sealed by a Professional Engineer registered in the state of Connecticut.
 - 3. Measures that will be implemented to protect public safety, surrounding facilities and prevent the Work from obstructing general business on the property, including but not limited to traffic patterns and maintenance of active utilities.
 - 4. Descriptions of equipment to be used to excavate existing materials;
 - 5. Operational procedures, such as stockpile locations. hauling routes, loadout areas, decontamination, and cross-contamination prevention;
 - 6. Procedures for managing and controlling surface water flows;
 - 7. Health and safety protocols.

1.03 DEFINITIONS

- A. Excavation includes trenching and shall mean the removal from in-place of all materials including, but not limited to, topsoil, soil, historic debris, surface asphalt, or concrete. Excavation of bedrock is not envisioned as part of this Work.

1.04 PROTECTION OF PEOPLE AND PROPERTY

- A. CONTRACTOR shall be responsible for the stability and safety of all of the CONTRACTOR's excavations at all times regardless of the requirements of this subsection.
- B. CONTRACTOR shall plan and conduct its operations and take all necessary precautions to prevent damage to existing utilities, structures, roads, grades, slopes, surface water drainage features, underground piping, manholes, monitoring wells, and other site features; to safeguard people and property; to minimize traffic inconvenience; to minimize dust and odors; and to provide safe working conditions. CONTRACTOR shall repair, to the CONSTRUCTION MANAGER's satisfaction, and at no additional expense or delay to the CONSTRUCTION MANAGER or OWNER, any and all damage which occurs as a result of the excavation work.
- C. Excavations, except as specified otherwise, shall be adequately sloped, stepped, shored, or braced in accordance with OSHA requirements and as approved by the CONSTRUCTION MANAGER and REMEDIAL DESIGNER. Excavations shall be adequately covered with temporary measures or adequately barricaded to prevent unwanted or inadvertent intrusion. CONTRACTOR is advised that access by the public is possible during construction and should provide adequate barriers to avoid potential accidents due to inadvertent access by individuals or vehicles.
- F. Trench boxes, or other equivalent shoring or bracing may be used by CONTRACTOR provided that CONTRACTOR shall submit a certification by a Professional Engineer licensed in Connecticut, indicating the design and methods of constructing and maintaining shoring and bracing such that the shored and braced excavations will remain stable under all weather and working conditions over the entire period that the excavation will be exposed. Such certification shall be based on CONTRACTOR's own subsurface exploration and consideration of available options and related work requirements including but not limited to, dewatering, construction equipment, location of underground piping, and proximity to stockpiles. Any review and/or comments provided to CONTRACTOR by REMEDIAL DESIGNER shall not relieve CONTRACTOR of its responsibility arising from excavation operations.
- G. Prior to excavation, CONTRACTOR shall consider and implement controls to minimize surface water run-in to the excavation areas.
- H. However, if unavoidable and necessary, accumulated water shall be disposed by methods specified in Section 02402 of these Specifications. Control of surface water shall be by methods referenced in Section 02125 of these Specifications.

PART 2 - PRODUCTS

Not Used.

PART 3 - EXECUTION

3.01 PREPARATION OF SOIL EXCAVATION AREAS

- A. CONTRACTOR shall verify locations of subsurface utilities and below ground structures prior commencing excavation activities.

B. CONTRACTOR shall comply with the requirements of Article 1.03 herein.

3.02 LIMITS OF EXCAVATION

- A. Stability of Excavations. Excavation side slopes shall comply with all applicable local, State and Federal regulations. Shore and brace, in accordance with local, State, and Federal Regulations, where sloping is not possible due to space restrictions, where there is a requirement to minimize refuse disturbance, and/or where instability of excavated material is possible. CONTRACTOR shall comply with all applicable OSHA and other related safety requirements. Maintain excavation side slopes in a safe condition, until completion of backfilling.
- B. Additional Excavation. When excavation has reached required depth or design elevation, notify REMEDIAL DESIGNER who will collect post-excavation confirmation samples in accordance with the DEFINED RAWP DOCUMENT. If post-excavation confirmation samples do not reach appropriate concentrations, as determined by the REMEDIAL DESIGNER, the CONSTRUCTION MANAGER will direct the CONTRACTOR to excavate to a newly defined limit, as determined by the REMEDIAL DESIGNER.
- C. Unauthorized excavations consist of removal of materials beyond depth or design elevation indicated on Contract Documents or dimensions without specific direction by the CONTRACT MANAGER. Unauthorized excavations shall be backfilled by the CONTRACTOR at the CONTRACTOR's sole expense. The CONTRACTOR shall backfill and compact unauthorized excavations in the same manner as specified for authorized excavations of same classification at the CONTRACTOR's sole expense, unless otherwise directed by the REMEDIAL DESIGNER.

3.01 3.02 EXCAVATION

- A. CONTRACTOR shall employ excavation methods to minimize the need to remove accumulated water from excavations, including mechanisms to divert surface water from entering the excavations.
- B. CONTRACTOR shall implement temporary erosion and sediment control measures per the CONTRACTOR's Erosion and Sediment Control Plan prior to commencing any excavation and shall maintain these measures throughout the Work.
- C. CONTRACTOR shall implement construction excavation and utility support, as necessary, in accordance with local, State, and Federal regulations.
- C. CONTRACTOR shall ensure the stability of all open excavations. Removal of sloughed soil will be completed at the expense of the CONTRACTOR as directed by the REMEDIAL DESIGNER. All sloughed material must be removed prior to commencing backfill efforts.
- F. CONTRACTOR shall promptly notify the CONSTRUCTION MANAGER of unexpected subsurface conditions and discontinue Work within the affected area until notified by the CONSTRUCTION MANAGER to resume Work.
- G. CONTRACTOR shall coordinate waste characterization, approvals, and schedule hauling to allow for live-loading of excavated contaminated soil into DOT approved trucks for disposal at appropriate facilities, approved by the OWNER and CONSTRUCTION MANAGER. No stockpiling of contaminated soil will be permitted.
- H. If the excavation is bounded vertically by bedrock, CONTRACTOR shall remove soil to the excavation bottom (bedrock) surface to allow visual inspection of the bedrock by the REMEDIAL DESIGNER.
- I. CONTRACTOR shall provide safe access for all personnel if access to the excavation is required. The "Competent Person" shall be responsible for monitoring the condition of the excavation.

3.02 HAULING

- A. CONTRACTOR shall employ methods to eliminate spillage from on-Site trucks and loaders when transporting materials.
- B. Any spillage that occurs shall be immediately cleared by the CONTRACTOR to the satisfaction of the CONSTRUCTION MANAGER.
- C. All trucks shall be tarped prior to exiting the work area.
- D. All trucks transporting hazardous waste shall be lined to prevent soil from sticking to truck bed upon disposal.

3.03 TRENCHING INSTRUCTIONS

- A. Excavation for Trenches: Minimize entry of personnel into open excavations to the extent practicable. If the CONTRACTOR's proposed methods of construction require personnel to enter excavations, slope, bench or shore the sides of excavations greater than 4 feet deep in accordance with OSHA 1926 Subpart P requirements and other applicable regulations. Provide appropriate access (ladders, etc.) at minimum frequencies specified in these regulations. Excavations shall be sufficiently wide to provide ample working room and as otherwise required for proper installations. All excavations shall be sufficiently wide to accommodate mechanical compaction equipment (minimum 6 inches) on both sides of pipe and other items.
 - 1. The CONTRACTOR shall determine if excavated trenches should be classified as confined spaces. Trenches shall be excavated and utilities installed in conformance with the requirements of the CONTRACTOR's Site-Specific Health and Safety Plan prepared in accordance with Section 01564 of these Specifications.
 - 2. Barricades and signs warning of open trench excavations shall be erected to protect personnel working in the area.
 - 3. Excavate trenches to the depths indicated on the Contract Documents or as required. Carry depth of trenches for piping, ducts, or conduit to establish indicated flow lines and invert elevations, without sags or humps, as shown on the Contract Drawings. Excavations shall be at straight and uniform grade.
 - 4. Where unsuitable bedding subgrade surface is encountered, over-excavate 6 inches and backfill with specified bedding material prior to installation of bedding and pipe. All visible sharp protruding objects shall be removed or covered with a minimum of 12 inches of compacted fill prior to placement of pipes or other structures.
 - 5. Bedding and backfilling shall be in accordance with Sections 02223 and 02233 of these Specifications.
 - 6. Maximum width of the excavation at the top of the pipe shall be as shown on the Contract Drawings. When shoring is required, width of trench may be increased to allow or their use, provided provisions for this excess width of trench are met.
 - 7. Maximum width at surface of ground shall not exceed width of trench at top of pipe by more than 2 feet without approval of REMEDIAL DESIGNER, unless specifically shown on the Contract Drawings.
 - 8. All trench excavations shall be backfilled at the end of the work day.
 - 9. Do not advance excavation of trenches more than 200 feet ahead of the completed pipe installation or removal, unless prior written approved is provided by the CONSTRUCT MANAGER.
 - 10. Do not backfill trenches until tests and inspections have been made, record surveying has been performed, and backfilling has been authorized by the REMEDIAL DESIGNER. The CONTRACTOR shall use care in backfilling to avoid damage or displacement of pipe systems.
- B. The CONTRACTOR shall be solely responsible for the stability of all Site excavations.

- C. Following the excavation for removal of utilities and structures, etc., the CONTRACTOR shall re-grade and add compacted backfill as needed to achieve the required surface for placement of materials as shown on the Contract Drawings, or as otherwise required by the Contract Documents.

3.04 UNDERGROUND UTILITIES

- A. CONTRACTOR shall cap subsurface utilities at or close to locations indicated on the Contract Drawings or at locations directed by the CONSTRUCTION MANAGER based on actual locations of subsurface utilities determined by the CONTRACTOR. The work shall be completed in conformance with the OWNER's requirements and local code requirements.
- B. CONTRACTOR shall coordinate all Work with CONSTRUCTION MANAGER and OWNER and shall not disrupt any utilities without written approval.
- C. CONTRACTOR shall protect subsurface utilities that are designated to remain.

*****END OF SECTION*****

WASTE MANAGEMENT

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK

- A. This Section includes the handling, sampling, analysis, characterization, staging, and disposal of impacted soil, liquids, and other waste materials that cannot be incorporated in the Work, as determined by the CONSTRUCTION MANAGER, that shall be disposed of at an off-Site location.
- B. CONTRACTOR shall furnish all permits, materials, labor, equipment, tools and appurtenances required to complete the Work of this Section. The CONTRACTOR shall provide a "Competent Person" to implement, supervise, and inspect the Work.
- C. CONTRACTOR shall comply with all applicable codes, ordinances, rules, regulations and laws of local, State, and Federal authorities having jurisdiction.
- D. Prior to off-Site disposal, CONTRACTOR shall identify proposed disposal facilities for OWNER, REMEDIAL DESIGNER, and CONSTRUCTION MANAGER approval.
- E. All sampling and testing shall be in accordance with relevant Federal, State and local regulations, requirements established in the Risk Based Disposal Approval Application and Addendum (Attachments 1 and 2), EPA Approval Letter (Attachment 3) and the requirements of the OWNER approved disposal facility(ies).
- F. CONTRACTOR shall determine appropriate turnaround time (TAT) for waste characterization sampling analysis based on construction schedule.

1.02 SUBMITTALS

- A. CONTRACTOR shall provide in their Work Plan a waste management narrative, which shall be submitted to the CONSTRUCTION MANAGER for review within 5 working days of the Notice to Proceed. The Waste Management narrative shall describe sampling, analysis, handling, loading and disposal procedures for soil, decontamination liquids, and all other waste streams.
- B. CONTRACTOR shall utilize a qualified Connecticut certified laboratory as the Analytical Testing Laboratory (ATL) in accordance with these Contract Documents.
- C. CONTRACTOR shall submit the results of the soil characterization for waste disposal or for on-Site reuse according to Article 3.01 of this section.
- D. CONTRACTOR shall submit the results of the characterization of liquid generated during construction dewatering for disposal according to Article 3.02 of this section.
- E. CONTRACTOR shall submit the results of characterization of all other wastes transported off-Site for disposal according to Article 3.03 of this section.
- F. CONTRACTOR shall submit applicable profile information and disposal facility approval of acceptance of all wastes prior to mobilization.
- G. CONTRACTOR shall submit information regarding waste transportation, waste transporter and disposal facilities to the CONSTRUCTION MANAGER at a minimum of five (5) days prior to shipment.

- H. CONTRACTOR shall submit Uniform Hazardous Waste Manifests upon receipt of completed manifests from the designated disposal facility certifying that the waste covered by the manifests has been received.
- I. CONTRACTOR shall submit analytical test results in electronic deliverable data format.

PART 2 - PRODUCTS

Not Used.

PART 3 - EXECUTION

3.01 IMPACTED SOIL HANDLING AND CHARACTERIZATION

- A. CONTRACTOR shall collect waste characterization samples for analysis and obtain profile approval prior to beginning excavation work to allow for live-loading of impacted materials. No impacted materials may be stockpiled on-Site.
- B. Analytical results for waste characterization shall be provided to the CONSTRUCTION MANAGER prior to scheduling excavation and transportation to a disposal facility.
- C. OWNER will be designated Generator and will sign the waste profile. OWNER, or approved representative, will sign waste manifests as Generator.

3.02 LIQUIDS HANDLING AND CHARACTERIZATION

- A. Liquids collected during construction (dewatering and/or decontamination) shall not generated as required by the EPA approval.
- B. Liquids to be disposed off-site, if any, shall be sampled and characterized by the CONTRACTOR for disposal at an appropriate waste facility, that is approved by the OWNER, per the requirements of the disposal facility or as otherwise directed by the CONSTRUCTION MANAGER.
- C. CONTRACTOR shall separate non-aqueous liquids, if any, from other liquids, containerize and manage as a waste stream separate from other liquids.

3.03 GENERAL DEBRIS HANDLING AND CHARACTERIZATION

- A. General debris that is not in contact with impacted material including pipes, general refuse, concrete, masonry, asphalt, wood, and other materials identified by the REMEDIAL DESIGNER and/or CONSTRUCTION MANAGER shall be temporarily stored by the CONTRACTOR in containers (i.e. roll-off dumpsters) at areas designated by the CONSTRUCTION MANAGER for off-Site disposal at an appropriate disposal facility, approved by the OWNER.
- B. General debris shall be sampled and characterized by the CONTRACTOR for disposal at an appropriate waste facility, approved by the OWNER, per the requirements of the approved disposal facility or as otherwise directed by the CONSTRUCTION MANAGER.

3.04 TRANSPORTATION AND DISPOSAL

- A. CONTRACTOR shall provide transportation and disposal of materials including but not limited to impacted soil, liquids, and general debris to the approved disposal facilities, based on the results of waste characterization sampling and testing.

- B. CONTRACTOR shall make arrangements with the disposal facilities for applicable waste profiling and manifesting.
- C. Transportation and disposal of materials shall be performed in accordance with the Contract Documents, and applicable local, State, and Federal regulations. Transport companies and disposal facilities shall have all appropriate permits and registrations.
- D. CONTRACTOR shall provide manifests and other certifications documenting the materials were received at the designated disposal facility.
- E. CONTRACTOR shall provide with their bids the names of the proposed transporters and disposal facilities for non-hazardous and hazardous waste, on which their bid is based.
- F. CONTRACTOR shall provide traffic control on the Site, on other parts of the property and adjacent properties utilized for access and at access points to public roads. CONTRACTOR operations must be coordinated with any other on-going operations on the property.

3.07 DECONTAMINATION

- A. Equipment, tools, and personnel associated with excavation, stockpiling, and/or conveyance of impacted soil, liquids, construction debris and other materials shall undergo decontamination in accordance with the CONTRACTOR's Site-Specific Health and Safety Plan (HASP) and "Decontamination" of the Specifications.
- B. The decontamination pad(s) shall be disposed of as impacted soil unless directed otherwise by the CONSTRUCTION MANAGER. Wash liquids shall be disposed of in accordance with Section 02402 "Liquids Handling and Disposal" of the Specifications.

3.08 STOCKPILING AND STORAGE

- A. At the Contractor's option, soil stockpiling can be utilized inside a secure area of the Site to temporarily store excavated soil and debris for profiling and waste characterization purposes prior to off-Site disposal. PCB remediation wastes containing greater than 50 mg/kg of PCBs will be stockpiled in accordance with 40 CFR 761.65(c)(9).
- A. Non-hazardous wastes may be stored temporarily on-site in roll-off containers, as approved by the OWNER and CONSTRUCTION MANAGER.
- B. Liquid wastes (i.e. decontamination) may be stored temporarily in sealed tanks or totes that will eliminate risk of release to ground. Secondary containment will be required for all liquid wastes stored on-Site.

*****END OF SECTION*****

STAGING AREA MANAGEMENT

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK

- A. CONTRACTOR shall furnish all labor, materials, equipment, tools and appurtenances required to, operate, maintain, and restore the on-Site staging areas, as approved by CONSTRUCTION MANAGER and OWNER. The Work associated with this item includes the maintenance of temporary erosion and sediment control measures around imported material stockpiles; maintenance, and cleaning, of roads, the Site entrance road, and temporary roads in the work area; and maintenance of storage and support areas. CONTRACTOR shall be responsible for the maintenance and repair of the Site entrance road and all roads on the Property utilized during the Work and for the restoration of said roads at the completion of the Work.
- B. CONTRACTOR shall assume responsibility for the management and maintenance of all work areas, including staging areas, upon mobilization or as otherwise directed by the CONSTRUCTION MANAGER. CONTRACTOR will not be relieved of the responsibility until the Work is accepted by the OWNER and CONSTRUCTION MANAGER.
- C. CONTRACTOR shall provide a "Competent Person" to implement, supervise, and inspect the Work.
- D. The CONTRACTOR shall comply with applicable codes, ordinances, rules, regulations and laws of local, State, and Federal authorities having jurisdiction.

1.02 SUBMITTALS

- A. Submittals shall be made by the CONTRACTOR in accordance with these Specifications.
- B. A Staging Area Management Plan which describes the operation methods, equipment, temporary facilities and hauling roads used to perform the work.

1.03 GENERAL

- A. Work shall not cause disruption to facility operations. CONTRACTOR shall limit activities to work area and staging area defined in these Contract Documents and defined in the CONTRACTOR's Site Management Plan (SMP), as approved by the OWNER and CONSTRUCTION MANAGER.
- B. Restore areas to original conditions, or better, at completion of the Work as approved by the CONSTRUCTION MANAGER and OWNER.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. The CONTRACTOR shall furnish any and all materials required to complete the Work.

PART 3 - EXECUTION

3.01. GENERAL

- A. Traffic control between the staging and work areas and the property entrance shall be in accordance with the Specifications.
- B. Dust control shall be in performed in accordance with the Specifications.

3.02 PREPARATION

- A. Prior to beginning Work, the CONTRACTOR shall ensure that all erosion and sedimentation controls are secure and fully functional. Deficiencies, as identified by the CONSTRUCTION MANAGER or REMEDIAL DESIGNER, shall be addressed prior to any excavation of material.
- B. Maintain adequate drainage of the stockpile areas. Do not allow accumulation of water within the stockpile areas. Do not allow uncontrolled stormwater runoff onto adjacent properties. Maintain erosion and sedimentation controls, as needed and as required, by applicable permits to prevent off-Site discharge of untreated stormwater.

3.03 TEMPORARY FACILITIES

- A. CONTRACTOR shall provide temporary facilities, including but not limited to office and storage space, toilets, and hand wash stations.
- B. CONTRACTOR shall park equipment and vehicles only in areas approved by the CONSTRUCTION MANAGER and OWNER. CONTRACTOR shall propose the equipment storage and vehicle parking procedures in the SMP.

3.05 CLEANING

- A. CONTRACTOR shall clean and repair the staging area prior to demobilization to in-kind or better condition, as determined by the CONSTRUCTION MANAGER and OWNER.
- B. CONTRACTOR shall be responsible for disposal of all excess materials and general refuse at an off-site landfill in accordance with all applicable federal, state, and local laws and regulations.

*****END OF SECTION*****

AGGREGATE MATERIALS

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK

- A. CONTRACTOR shall furnish all labor, materials, equipment, tools, and appurtenances required to complete the Work of furnishing, placing, and compacting the aggregate materials for structure bedding and as shown, specified or required by the Contract Documents.
- B. CONTRACTOR shall comply with applicable codes, ordinances, rules, regulations and laws of local, State, and Federal authorities having jurisdiction. CONTRACTOR shall provide a "Competent Person" to implement, supervise, and inspect all Work.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Aggregate materials shall be provided by the CONTRACTOR from off-Site sources approved by the OWNER and CONSTRUCTION MANAGER.
- B. Aggregate materials shall be stored in designated areas approved by the OWNER and CONSTRUCTION MANAGER. CONTRACTOR shall be responsible for maintaining the aggregate materials to be free of deleterious material, and any aggregate materials determined by the REMEDIAL DESIGNER to be deleterious material shall not be used for the required construction activities.
- C. Aggregate material referred to as Coarse Aggregate Materials/Aggregate Backfill on the Design Drawings shall consist of clean, durable, sharp-angled fragments of rock or gravel and shall be CTDOT/AASHTO No. 3 stone conforming to the following:

- 1. Gradation requirements: Aggregate shall meet the following gradation requirements when tested using ASTM C136:

U.S. Standard Sieve Size	Percent Passing by Weight
2 1/2 inch	100
2 inch	90-100
1 1/2 inch	35-70
1 inch	0-15
1/2 inch	0-5

- D. Aggregate material referred to as Crushed Stone/Road Subbase on the Design Drawings shall consist of clean, durable, sharp-angled fragments of rock or gravel and shall be CTDOT/ AASHTO No. 6 stone conforming to the following:

- 1. Gradation requirements: Aggregate shall meet the following gradation requirements when tested using ASTM C136:

U.S. Standard Sieve Size	Percent Passing by Weight
1 inch	100
3/4 inch	90-100
1/2 inch	20-55
3/8 inch	0-15
No. 4	0-5

2. Resistance to Abrasion: Aggregate materials shall show a loss on abrasion of not more than 50% using AASHTO Method T 96.
3. Soundness: When tested with magnesium sulfate solution for soundness using AASHTO Method T 104, coarse aggregate shall not have a loss of more than 15% at the end of 5 cycles.

E. Aggregate material referred to as Crushed stone/Inlet drainage Protection shall consist of clean, durable, sharp-angled fragments of rock or gravel and should be CTDOT/AASHTO No. 57 stone conforming to the following:

1. Gradation requirements: Aggregate must meet the following gradation requirements when tested using ASTM C136:

U.S. Standard Sieve Size	Percent Passing by Weight
1 1/2 inch	100
1 inch	95-100
1/2 inch	25-80
#4	0-10
#8	0-5

2.02 TESTING

A. CONTRACTOR shall, at least 21 calendar days prior to use of proposed materials, submit to the REMEDIAL DESIGNER for favorable review, certification that the materials proposed for use as aggregate materials comply with the specification for the proposed application. The certification shall be project-specific, i.e., mention the project by name and shall be notarized. The certification shall include, but not necessarily be limited to, testing provided by the material supplier including the following tests:

- | | | |
|----|---|---|
| 1. | Grain Size | ASTM C136 & ASTM D422 |
| 2. | Relative Density | ASTM D453 and ASTM D4254 |
| 3. | Carbonate Content | ASTM D3042 |
| 4. | Durability | ASTM C1137 (DGA only)
ASTM C535 (all others) |
| 5. | Hydraulic Conductivity at
70% Relative Density | ASTM D2434 |

C. CONTRACTOR shall submit to the REMEDIAL DESIGNER certifications of compliance, as specified above, along with a minimum 50 lb sample of each type of proposed material for each proposed borrow source.

D. No material shall be placed unless approved by REMEDIAL DESIGNER.

E. The CONTRACTOR shall certify that the off-site material is of virgin source and environmentally clean. The OWNER may elect to perform additional analytical testing, at its own cost, of samples obtained from the CONTRACTOR's off-site source to verify that the material is environmentally clean. CONTRACTOR shall cooperate with the OWNER in obtaining samples for this purpose. The OWNER may reject any sources proposed by the CONTRACTOR based on analytical test results or past history of the source of the material.

1. If, in the opinion of the REMEDIAL DESIGNER, the aggregate material is unsuitable for the proposed application, the CONTRACTOR shall submit to the REMEDIAL DESIGNER certifications of compliance, as specified above, for alternate materials from a different borrow source, at no additional cost to the OWNER.

PART 3 - EXECUTION

3.01 STORAGE

- A. Stockpile imported materials in clean areas approved by the REMEDIAL DESIGNER and/or CONSTRUCTION MANAGER until required for placement.
- B. Locate and retain stockpiled materials in a location where the weight of the stockpiled materials will not create surcharge loading conditions on the excavation edges.

3.02 PLACEMENT

- A. Aggregate materials shall be placed in uniform layers to the lines, thicknesses, and grades shown on the Contract Drawings or where approved in the field by the REMEDIAL DESIGNER and/or CONSTRUCTION MANAGER.
- B. Backfilling with aggregate materials shall be performed by the CONTRACTOR in a manner such that the material is kept clean and free of deleterious materials.
- C. The REMEDIAL DESIGNER may at any time inspect the in-place aggregate materials or aggregate material stockpiles for deleterious material, and reject all or portions of the material, if necessary.
- D. When backfilling with aggregate materials, the CONTRACTOR shall employ a placement method that does not disturb or damage other work.
 - E. Each layer of aggregate material shall be uniformly compacted by use of compaction equipment consisting of rollers, compactors or a combination thereof, or as otherwise directed by the REMEDIAL DESIGNER.

3.04 COMPACTION REQUIREMENTS

- A. Aggregate Backfill: Aggregate backfill shall be placed in a single uniform lift and compacted to provide a sound foundation without yielding, pumping, or rolling, as determined by the REMEDIAL DESIGNER.
- B. Road Subbase: The dry density of after compaction shall not be less than 95% of the dry density for that soil when tested in accordance with AASHTO T 180, Method D. Each layer of the embankment and the subgrade shall be compacted at optimum moisture content. No subsequent layer shall be placed until the specified compaction is obtained for the previous layer.

*****END OF SECTION*****

LIQUIDS HANDLING AND DISPOSAL

PART 1 – GENERAL

CONTRACTOR IS NOTIFIED THAT DEWATERING OR COLLECTION OF LIQUIDS IS STRICTLY PROHIBITED UNLESS APPROVAL IS OBTAINED FROM THE OWNER.

1.01 DESCRIPTION OF WORK

- A. This Section describes requirements and restrictions for handling and disposal of liquids generated during construction activities including, but not limited to, groundwater, excavation dewatering, and liquids resulting from decontamination of construction equipment utilized for excavation of contaminated soil. The CONTRACTOR shall furnish all materials, equipment, transportation, and labor necessary to complete the Work.
- B. CONTRACTOR will abide by all CT DEEP, USEPA, OSHA, and other applicable regulations and guidelines, and the directions of the CONSTRUCTION MANAGER when performing all work applicable to this Section. The CONTRACTOR shall provide a “Competent Person” to implement, supervise and inspect the Work.
- C. CONTRACTOR shall address the proposed approach to liquid handling and disposal, including a Spill Control narrative in the Site Management Plan (SMP) which will be submitted per the requirements of Section 01300, Submittals. The CONSTRUCTION MANAGER and REMEDIAL DESIGNER shall review the Plan and provide a favorable review prior to commencement of the work. CONTRACTOR shall satisfactorily address comments on the Plan prior to mobilization.

1.02 SUBMITTALS

- A. CONTRACTOR shall submit a description of methods for containing, collecting, and disposing of liquids generated during construction, including, but not limited to, surface water, groundwater requiring excavation dewatering and decontamination liquids.

PART 2 - PRODUCTS

Not used.

PART 3 - EXECUTION

3.01 ON-SITE HANDLING AND STORAGE

- A. CONTRACTOR shall construct a decontamination pad that is lined and bermed such that all decontamination liquid can be collected and containerized for shipment off-site. CONTRACTOR shall include a description of the decontamination pad in the SMP.
- B. Decontamination liquids shall be handled in a manner such that the liquids will be contained on-site and will not be allowed to flow onto the ground or off-site as surface water discharge. Discharge of any collected liquids to storm drains and/or adjacent surface waters will not be allowed. Any damage or pollution to adjacent soil or surface waters due to the CONTRACTOR's actions or negligence under this requirement, or any fines, penalties, costs of clean-up or reconstruction required as a result thereof, shall be at the sole expense of the CONTRACTOR. CONTRACTOR shall immediately remedy, clean-up, and correct any conditions as a result of its pollution of site soils or on- or off-site surface waters.

- C. CONTRACTOR shall furnish secure, watertight temporary storage for the entire duration of liquids handling. The storage shall be accessible by tanker trucks. The handling of liquids shall be done in a manner such that the liquids remain at acceptable suspended solids levels for the approved disposal facility. Filter or settle as necessary to minimize suspended solids. Dispose of filters and filtered solids with contaminated soils.
- D. Separate, segregate, and divert surface water runoff from groundwater encountered during excavation and Site grading activities. Handle groundwater separately from surface water runoff. The CONTRACTOR shall maintain all ground and surface water control measures as necessary, and as directed by the CONSTRUCTION MANAGER.
- E. CONTRACTOR shall perform all analytical testing required for the purposes of characterization and disposal approval.
- F. Any non-aqueous or oily liquids encountered shall be immediately brought to the attention of the CONSTRUCTION MANAGER. Non-aqueous liquids shall be collected separately in drums or other containers provided by the CONTRACTOR for temporary storage and testing for characterization for off-site disposal.

3.02 TRANSPORT AND DISPOSAL OF AQUEOUS LIQUIDS

- A. CONTRACTOR shall collect, pump, store, handle, and transfer groundwater or other liquids encountered and collected during performance of the Work, as necessary to complete the Work.
- B. CONTRACTOR shall perform any characterization of aqueous liquids required for off-site disposal. Cost for analytical testing, transportation and disposal of aqueous liquids shall be the responsibility of the CONTRACTOR.
- C. CONTRACTOR shall provide copies of all analytical results, disposal approvals and transportation manifests to the CONSTRUCTION MANAGER in accordance with Section 01700 of these Specifications.

3.04 MANAGEMENT OF NON-AQUEOUS LIQUIDS

- A. Any non-aqueous or oily liquids encountered shall be immediately brought to the attention of the REMEDIAL DESIGNER and/or CONSTRUCTION MANAGER. Non-aqueous liquids shall be collected separately in drums or other containers provided by CONTRACTOR for temporary storage. Containerized non-aqueous liquids shall be stored at a designated area of the Site at a location satisfactory to the CONSTRUCTION MANAGER and provided with secondary containment by CONTRACTOR.
- B. CONTRACTOR shall perform any characterization of non-aqueous liquids required for off-site disposal. Cost for analytical testing, transportation and disposal of non-aqueous liquids shall be the responsibility of the CONTRACTOR.
- C. CONTRACTOR shall provide copies of all analytical results, disposal approvals and transportation manifests to the CONSTRUCTION MANAGER in accordance with these Specifications.

*****END OF SECTION*****

DECONTAMINATION

PART 1 - GENERAL

1.01 PURPOSE

- A. The purpose of this Section is to establish minimum decontamination requirements for the CONTRACTOR. These requirements shall be used by the CONTRACTOR to assist in preparation of the CONTRACTOR's Decontamination Plan.
- B. CONTRACTOR'S Decontamination Plan shall include procedures and plans for the decontamination of equipment and disposal of contaminated materials.
- The Contractors will designate a decontamination area within the Work Zone. All equipment used in the Exclusion Zone will be cleaned and wipe tested for PCBs before leaving the Site. Equipment used in remediation activities will be decontaminated by power washing using scrub brushes and organic solvents.
 - Reusable field sampling equipment will be decontaminated prior to sample collection at each sample location to prevent cross-contamination of samples.
 - Unless it is decontaminated, field sampling equipment will be disposed of at a PCB permitted facility.
 - Wash water will be collected in 55-gallon drums or a settling tank and disposed of off-site in accordance with federal regulations.
 - The Contractor will facilitate with the completion of wipe sampling to be conducted by the Owner's Representative on equipment used in remediation prior to leaving the Site.
 - Cleanup materials generated during PCB remediation waste activities must either be decontaminated in accordance with TSCA and this SOP, or shipped to a TSCA-approved facility for proper disposal.
 - TSCA defines two types of decontamination: measurement-based decontamination and self implementing decontamination. The type of decontamination chosen depends on the material to be decontaminated. The following sections describe the requirements for each.
 - Approved performance-based organic decontamination fluid (PODF) are:
 - i. Kerosene.
 - ii. Diesel fuel.
 - iii. Terpene hydrocarbons.
 - iv. Mixtures of terpene hydrocarbons and terpene alcohols.

TABLE 1. DECONTAMINATION METHODS

TYPE OF MATERIAL	SPECIFIC MATERIAL TO BE DECONTAMINATED	DECONTAMINATION METHOD	TSCA DECONTAMINATION LEVEL
PCB Container	PCB Container	Flush the internal surface of the container three times with a solvent containing < 50 ppm PCBs. Each rinse must use a volume of the flushing solvent equal to approximately 10% of the capacity of the PCB container. In other words, if you are rinsing out a 55-gallon drum, you must rinse three times and use at least 5.5 gallons of solvent during each rinse.	Self-implementing (see 40 CFR §761.79(c)(1))
Equipment, Tools, Etc.	Movable equipment, tools, and sampling equipment that is contaminated with PCBs	Use one of the following methods: 1. Swabbing surfaces that have contacted PCBs with a solvent; 2. Double wash/rinse per 40 CFR §761 Subpart S (see Section 6 of this SOP); or 3. Another applicable decontamination procedure specified in the regulations (e.g., NACE Visual Standard No. 2, Near-White Blast Cleaned Surface Finish).	Self-implementing (see 40 CFR §761.79(c)(2))

TABLE 1. DECONTAMINATION METHODS

TYPE OF MATERIAL	SPECIFIC MATERIAL TO BE DECONTAMINATED	DECONTAMINATION METHOD	TSCA DECONTAMINATION LEVEL
Water and Liquids	Water for non-contact use in a closed system where there are no releases.	One of the methods described in Section 5.1	< 200 micrograms per liter (µg/L or ppb) PCBs (see 40 CFR §761.79(b)(1))
	Water discharged to treatment works ¹ or to navigable waters	One of the methods described in Section 5.1	< 3 ug/L (ppb) PCBs, or a PCB discharge limit specified in a NPDES permit (see 40 CFR §761.79(b)(1))
	Water for unrestricted use	One of the methods described in Section 5.1	≤ 0.5 µg/L (ppb) PCBs (see 40 CFR §761.79(b)(1))
	Organic liquids and non-aqueous liquids containing PCBs	One of the methods described in Section 5.1	< 2 milligrams per liter (mg/L or ppm) PCBs (see 40 CFR §761.79(b)(2))
Non-Porous Surfaces	Non-porous surfaces previously in contact with liquid PCBs at any concentration, where no free-flowing liquids are currently present	One of the methods described in Section 5.1	≤ 10 micrograms per 100 square centimeters (µg/100 cm ²) PCBs (see 40 CFR §761.79(b)(3)(i)(A)) Must be sampled and measured in accordance with specific TSCA requirements ²
	Non-porous surfaces in contact with non-liquid PCBs (including non-porous surfaces covered with a porous surface, such as paint or coating on metal)	One of the methods described in Section 5.1	Cleaning to the National Association of Corrosion Engineers' (NACE) Visual Standard No. 2, Near-White Blast Cleaned Surface Finish. Compliance with standard No. 2 must be verified by visually inspecting all cleaned areas. (see 40 CFR §761.79(b)(3)(i)(B))
Porous Surfaces	Concrete if decontamination is commenced within 72 hours of the initial spill of PCBs to the concrete	One of the methods described in Section 5.1	≤ 10 µg/100 cm ² as measured by a standard wipe test (see 40 CFR §761.123)
	Porous surfaces other than concrete where decontamination is commenced within 72 hours of the spill; and non-porous surfaces covered with a porous surface	Obtain an alternative decontamination approval (see 40 CFR §761.79(h))	

1.02 DOUBLE WASH/RINSE METHOD FOR DECONTAMINATING NON-POROUS SURFACES

A. This procedure is for effectively removing PCBs from **Non-Porous Surfaces**.

B. This procedure includes two washing steps and two rinsing steps. The type of step used depends on whether the contaminated surface was relatively clean prior to the release or whether the surface was coated or covered with dust, dirt, grime, grease, or another absorbent material.

C. Cleanup equipment used must consist of scrubbers and absorbent pads that meet the following criteria:

- they are not dissolved by the solvents or cleaners used;
- they do not shred, crumble, or leave visible fragments on the surface;
- scrubbers and absorbent pads used to wash contaminated surfaces must not be reused;
- if they are used for rinsing, they must not contain ≥ 2 ppm PCBs;
- if they are used in the second rinse of contaminated surfaces, they may be reused to wash contaminated surfaces.

TABLE 2. DOUBLE WASH/RINSE PROCEDURE FOR “CLEAN” SURFACES

STEP	PROCEDURE	NOTES
Pre-Cleaning the Surface	Thoroughly wipe or mop the entire surface with absorbent paper or cloth until no liquid is visible on the surface.	Pre-cleaning is only necessary if PCB-containing liquid is visible on the surface to be cleaned.
First Wash	<ol style="list-style-type: none"> 1. Cover the entire surface with organic solvent (in which PCBs are soluble to at least 5% by weight). 2. Scrub rough surfaces with a scrub brush or disposable scrubbing pad and solvent such that each 900 cm² (1 square foot) of the surface is always very wet for 1 minute. 3. Wipe smooth surfaces with a solvent-soaked, disposable absorbent pad such that each 900 cm² (1 ft²) is wiped for 1 minute. Any surface < 1 ft² must also be wiped for 1 minute. 4. Wipe, mop, and/or sorb the solvent onto absorbent material until no visible traces of the solvent remain. 	Ensure that any runoff solvent is collected for proper disposal.
First Rinse	<ol style="list-style-type: none"> 1. Wet the surface with clean rinse solvent such that the entire surface is very wet for 1 minute. 2. Wipe the residual solvent off the drained surface using a clean, disposable absorbent pad until no liquid is visible on the surface. 	Ensure that solvent from the surface is drained and contained.
Second Wash	Repeat the wash (described above).	The rinse solvent from the first rinse (above) may be used.
Second Rinse	Repeat the rinse (described above).	

D. Table 3 describes the double-wash/rinse procedure for surfaces coated or covered with dust, dirt, grime, grease, or another absorbent material.

TABLE 3. DOUBLE WASH/RINSE PROCEDURE FOR “DIRTY” SURFACES

Step	Procedure	Notes
Pre-Cleaning the Surface	Thoroughly wipe or mop the entire surface with absorbent paper or cloth until no liquid is visible on the surface.	Pre-cleaning is only necessary if PCB-containing liquid is visible on the surface to be cleaned.

Step	Procedure	Notes
First Wash	<ol style="list-style-type: none"> 1. Cover the entire surface with concentrated or industrial strength detergent or non-ionic surfactant solution. 2. Scrub rough surfaces with a scrub brush or scrubbing pad, adding cleaning solution such that the surface is always very wet (each 900 cm² (1 ft²) is washed for 1 minute. 3. Wipe smooth surfaces with a cleaning solution-soaked disposable absorbent pad such that each 900 cm² (1 ft²) is wiped for 1 minute. Wash any surface < 1 ft² for 1 minute. 4. Mop up or absorb the residual cleaner solution and suds with a clean, disposable absorbent pad until the surface appears dry. This cleaning should remove any residual dirt, dust, grime, or other absorbent materials left on the surface during the first wash. 	Ensure that all cleaning solutions are contained and collected for proper disposal.
First Rinse	<ol style="list-style-type: none"> 1. Rinse off the wash solution with 1 gallon of clean water per square foot and capture the rinse water. 2. Mop up the wet surface with a clean, disposable, absorbent pad until the surface appears dry. 	
Second Wash	Follow the procedure for the First Wash described in Table 2, above.	
Second Rinse	Follow the procedure for the First Rinse described in Table 2, above.	

- E. All solvents and cleaners must be captured for reuse, decontamination, or proper disposal. Clean organic solvents contain < 2 ppm PCBs, and clean water contains < 3 ppb PCBs. A solvent may be reused provided its PCB concentration is < 50 ppm. Solvents for reuse must be stored in accordance with 40 CFR § 761.35.
- F. Equipment used in the double wash/rinse procedures can be reused or decontaminated. Decontamination should follow TSCA procedures (as described in this SOP). Equipment for reuse must be stored in accordance with 40 CFR § 761.35.
- G. Equipment, solvents, cleaners, and absorbent materials stored for disposal must be stored in accordance with 40 C.F.R § 761.65.

DISPOSAL OF CONTROLLED MATERIALS

Description:

Work under this item shall consist of the loading, transportation and final off-site disposal/recycling/treatment of controlled materials that have been generated from various excavations within the AOEC(s), brought to the WSA and determined to be contaminated with regulated substances at non-hazardous levels. This contamination is documented in the reports listed in the "Notice to Contractor – Environmental Investigations". The controlled materials, after proper characterization by the Engineer, shall be taken from the WSA, loaded, transported to and treated/recycled/disposed at a permitted treatment/recycle/disposal facility listed herein.

The Contractor must remove *PCB remediation waste* (i.e., soil) and dispose as a greater than or equal to (\geq) 50 parts per million (ppm) PCB waste in accordance with 40 CFR § 761.61(a)(5)(i) (B) (2) (iii)

The following sites, or approved equivalent sites, would likely be acceptable disposal facilities to EPA under 40 CFR § 761.61(a)(5)(i)(B)(2)(iii) and/or 40 CFR § 761.61(a)(5)(i)(B)(2)(ii).

US Ecology
17440 College Parkway, Suite 300
Livonia, MI 48152
Tel (734) 521-8000

The Contractor's Bid Proposal must identify their proposed disposal facility. The Borough of Naugatuck retains the right to accept or reject any facility.

The above list contains treatment/recycle/disposal facilities which may or may not be able to accept the waste stream generated by the project in quantities that may be limited by their permits and their operations restrictions. It is the responsibility of the contractor to verify that a facility will be available and capable of handling the volume as well as the chemical and physical characteristics of material generated by the project. In all cases, the Contractor shall identify the proposed disposal facility for consideration and approval by the Borough of Naugatuck.

Construction Methods:

A. Material Disposal

The Engineer will sample materials stored at the WSAs at a frequency established by the selected treatment/recycling/disposal facilities. The Contractor shall designate to the Engineer which facility it intends to use, as well as the facility acceptance criteria and sampling frequency, prior to samples being taken. The Contractor is hereby notified that laboratory turnaround time is expected to be ten (10) working days. Turnaround time is the period of time beginning when the Contractor notifies the Engineer which facility it intends to use and that the bin within the WSA is full and ready for sampling and ending with the Contractor's receipt of the laboratory analytical results. Any change of intended treatment/recycling/disposal facility may prompt the need to resample and will therefore restart the time required for laboratory turnaround. The laboratory will furnish such results to the Engineer. Upon receipt, the Engineer will make available to the Contractor the results of the final waste characterization determinations. **No delay claim will be considered based upon the Contractor's failure to accommodate the laboratory turnaround time as identified above.**

The Contractor shall obtain and complete all paperwork necessary to arrange for material disposal (such as disposal facility waste profile sheets). It is solely the Contractor's responsibility to co-ordinate the disposal of controlled materials with its selected treatment/recycling/disposal facility(s). Upon receipt of the final approval from the facility, the Contractor shall arrange for the loading, transport and treatment/recycling/disposal of the materials in accordance with all Federal and State regulations. **No claim will be considered based on the failure of the Contractor's selected disposal facility(s) to meet the Contractor's production rate or for the Contractor's failure to select sufficient facilities to meet its production rate.**

Any material processing (including but not limited to the removal of woody debris, scrap metal, pressure-treated and untreated wood timber, large stone, concrete, polyethylene sheeting or similar material) required by the Contractor's selected facility will be completed by the Contractor prior to the material leaving the site. It is solely the Contractor's responsibility to meet any such requirements of its facility. Any materials removed shall be disposed of or recycled in a manner acceptable to the Engineer at no additional cost. If creosote treated timbers are removed, they will be disposed of under the item "Disposal of Contaminated Timber Piles", "Disposal of Contaminated Railroad Ties" or in accordance with Article 1.04.05 in the absence of such items.

All manifests or bills of lading utilized to accompany the transportation of the material shall be prepared by the Contractor and signed by an authorized Borough representative, as Generator, for each truck load of material that leaves the site. The Contractor shall forward the appropriate original copies of all manifests or bills of lading to the Engineer the same day the material leaves the Project.

A load-specific certified scale reading, certificate of treatment/recycling/disposal, signed by the authorized agent representing the disposal facility, shall be obtained by the Contractor and promptly delivered to the Engineer for each load.

B. Material Transportation

In addition to all pertinent Federal, State and local laws or regulatory agency policies, the Contractor shall adhere to the following precautions during the transport of controlled materials off-site:

- Transported controlled materials are to be covered sufficiently to preclude the loss of material during transport prior to leaving the site and are to remain covered until the arrival at the selected treatment/recycling/disposal facility.
- All vehicles departing the site are to be properly logged to show the vehicle identification, driver's name, time of departure, destination, and approximate volume, and contents of materials carried.
- No materials shall leave the site unless a treatment/recycling/disposal facility willing to accept all of the material being transported has agreed to accept the type and quantity of waste.
-

C. Equipment Decontamination

All equipment shall be provided to the work site free of gross contamination. The Engineer may prohibit from the site any equipment that in his opinion has not been thoroughly decontaminated prior to arrival. Any decontamination of the Contractor's equipment prior to arrival at the site shall be at the expense of the Contractor. The Contractor is prohibited from decontaminating equipment on the Project that has not been thoroughly decontaminated prior to arrival.

The Contractor shall furnish labor, materials, tools and equipment for decontamination of all equipment and supplies that are used to handle Controlled Materials. Decontamination shall be conducted at an area designated by the Engineer and shall be required prior to equipment and supplies leaving the Project, between stages of the work, and between work in different AOEC's.

The Contractor shall use dry decontamination procedures. Residuals from dry decontamination activities shall be collected and managed as Controlled Materials. If the results from dry methods are unsatisfactory to the Engineer, the Contractor shall modify decontamination procedures as required.

The Contractor shall be responsible for the collection and treatment/recycling/disposal of any liquid wastes that may be generated by its decontamination activities in accordance with applicable regulations.

Method of Measurement:

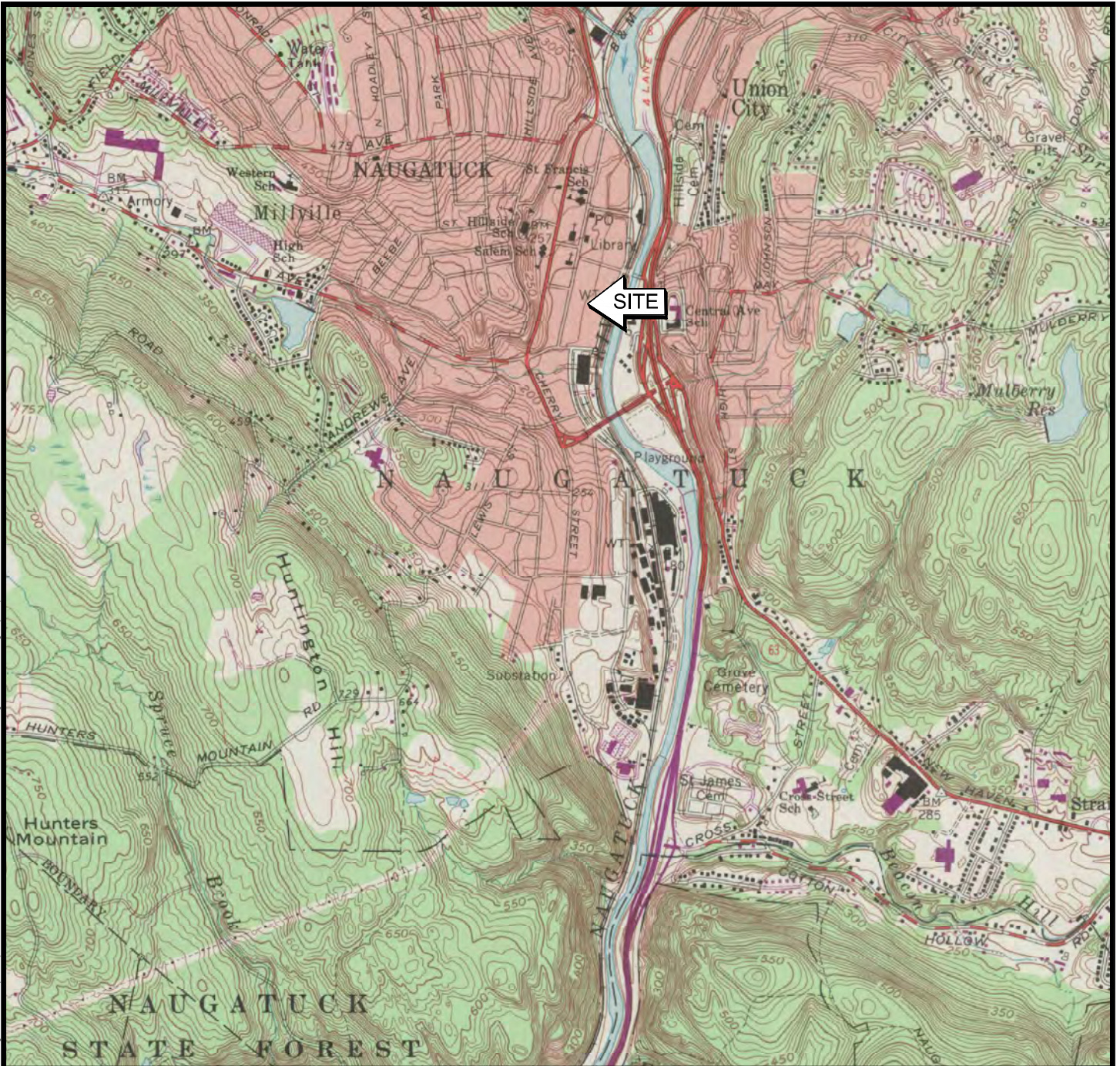
The work of "DISPOSAL OF CONTROLLED MATERIALS" will be measured for payment as the actual net weight in tons of material delivered to the treatment/recycling/disposal facility, as measured by the facility's certified scale. Such determinations shall be made by measuring each hauling vehicle on the certified permanent scales at the treatment/recycling/disposal facility. Total weight will be the summation of weight bills issued by the facility specific to this Project. Excess excavations made by the Contractor beyond the payment limits specified in Specification or the Contract Special Provisions (as appropriate) will not be measured for payment and the Contractor assumes responsibility for all costs associated with the appropriate handling, management and disposal of this material.

Equipment decontamination, the collection of residuals, and the collection and disposal of liquids generated during equipment decontamination activities will not be measured separately for payment.

Any material processing required by the Contractor-selected disposal facility, including the proper disposal of all removed materials other than creosote treated wood, will not be measured for payment.

APPENDIX 1

CONTRACT DRAWINGS



NORTH

USGS TOPOGRAPHIC MAP

7.5 MINUTE QUADRANGLE:
NAUGATUCK, CT 1984

APPROX. SCALE IN FEET



FIGURE 1

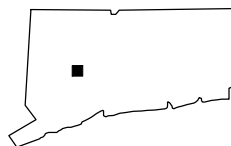
**LOCUS PLAN
PARCEL B
MAPLE STREET
NAUGATUCK, CT 06770**



**DOWN TO EARTH
CONSULTING, LLC**
GEOTECHNICAL AND ENVIRONMENTAL ENGINEERING

122 Church Street
Naugatuck, Connecticut 06770

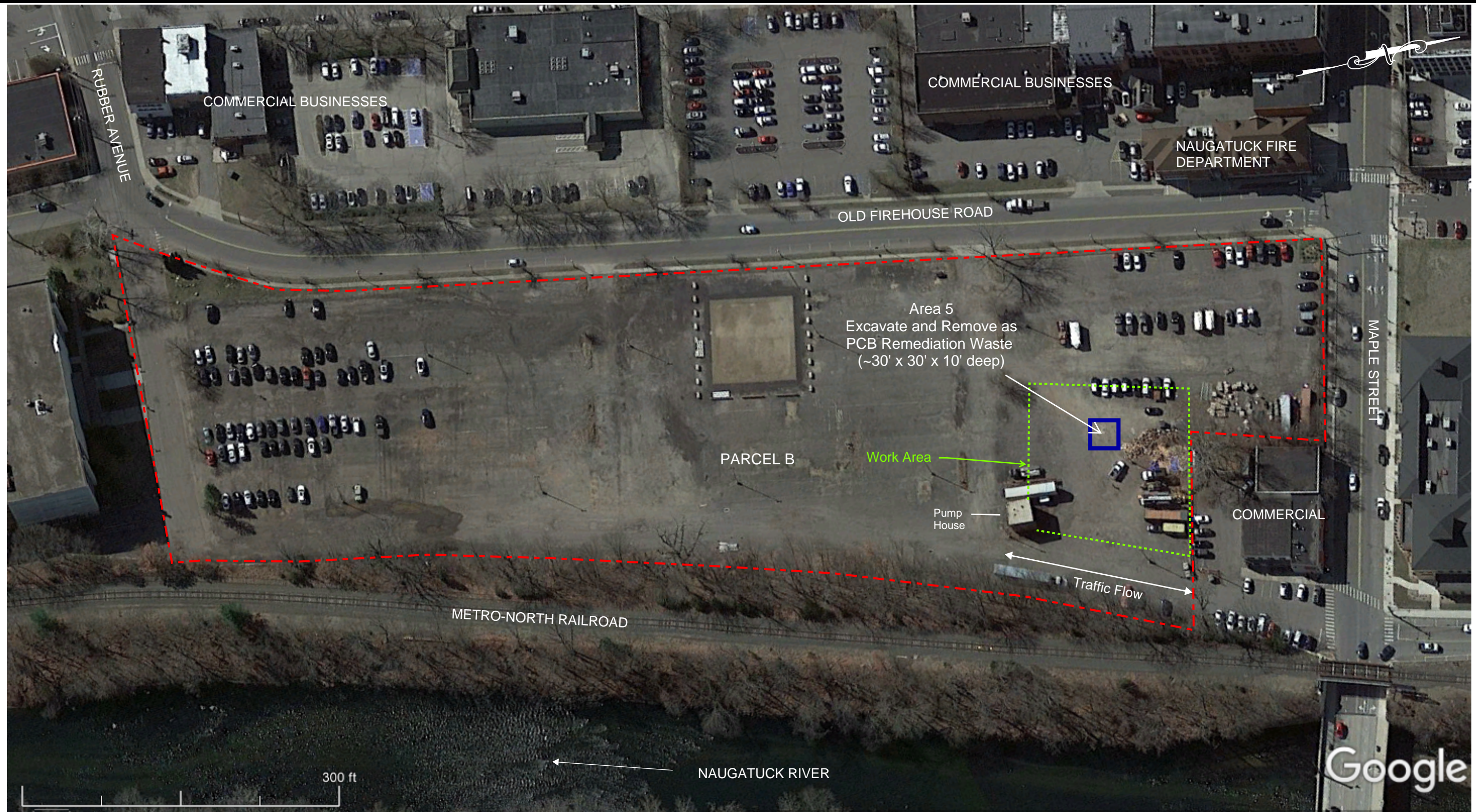
203-683-4155



QUADRANGLE LOCATION

PROJECT NO.

DATE: APRIL 2020



LEGEND

- - - - Approximate Property Line
- ⋯⋯⋯⋯ Approximate Extent of Work Area

NOTES:
The basemap was obtained from Google Earth on August 4, 2022.



DOWN TO EARTH CONSULTING, LLC
GEOTECHNICAL AND ENVIRONMENTAL ENGINEERING

122 Church Street
Naugatuck, Connecticut 06770

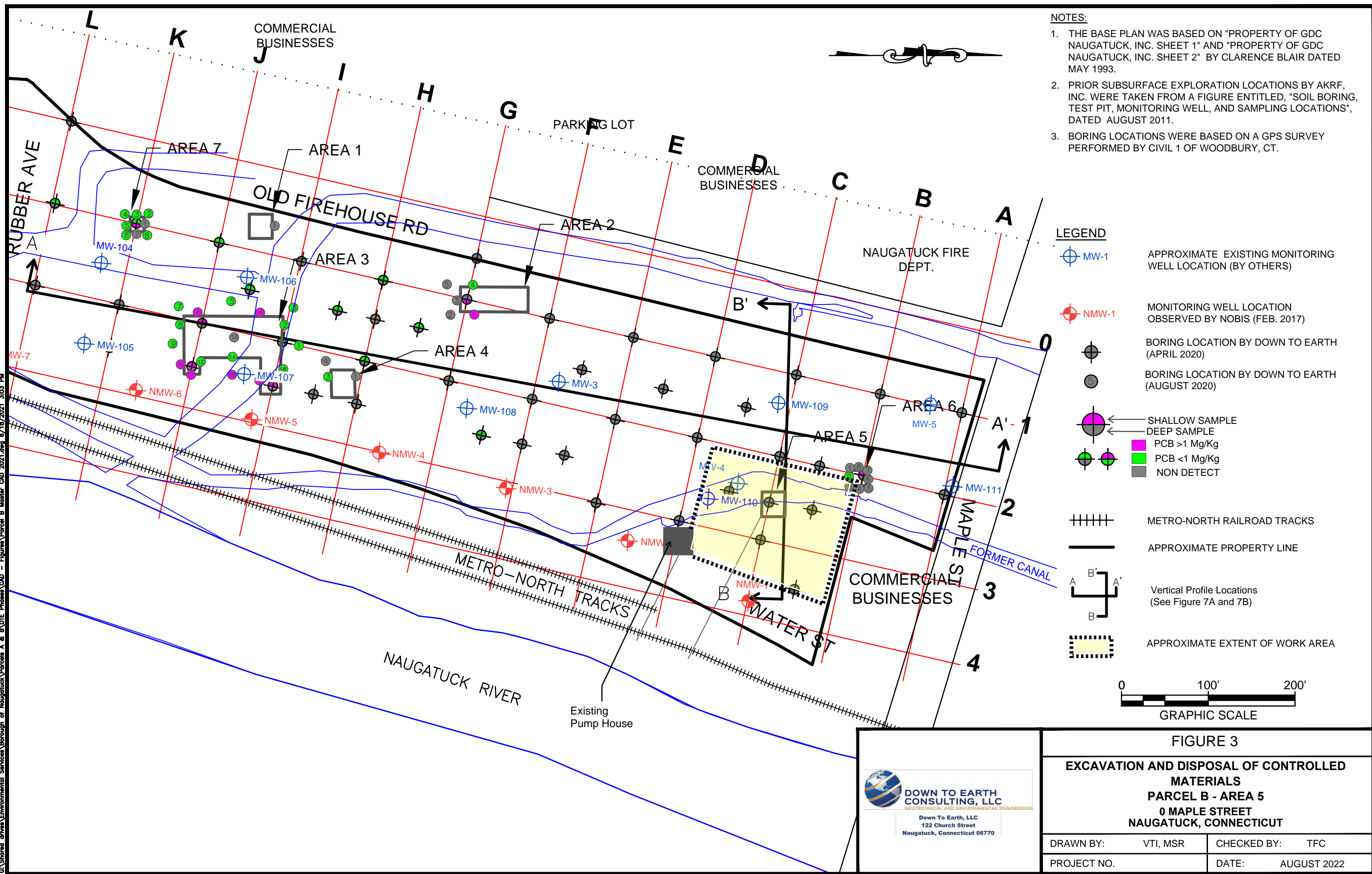
203-683-4155

FIGURE 2

SITE PLAN
EXCAVATION AND DISPOSAL OF CONTROLLED MATERIALS
PARCEL B - AREA 5
0 MAPLE STREET
NAUGATUCK, CONNECTICUT

DRAWN BY: MSR	CHECKED BY: TFC
PROJECT NO.	DATE: AUGUST 2022

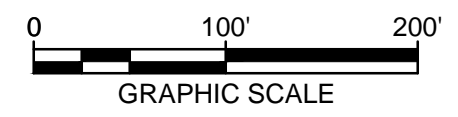
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- NOTES:**
1. THE BASE PLAN WAS BASED ON "PROPERTY OF GDC NAUGATUCK, INC. SHEET 1" AND "PROPERTY OF GDC NAUGATUCK, INC. SHEET 2" BY CLARENCE BLAIR DATED MAY 1993.
 2. PRIOR SUBSURFACE EXPLORATION LOCATIONS BY AKRF, INC. WERE TAKEN FROM A FIGURE ENTITLED, "SOIL BORING, TEST PIT, MONITORING WELL, AND SAMPLING LOCATIONS", DATED AUGUST 2011.
 3. BORING LOCATIONS WERE BASED ON A GPS SURVEY PERFORMED BY CIVIL 1 OF WOODBURY, CT.

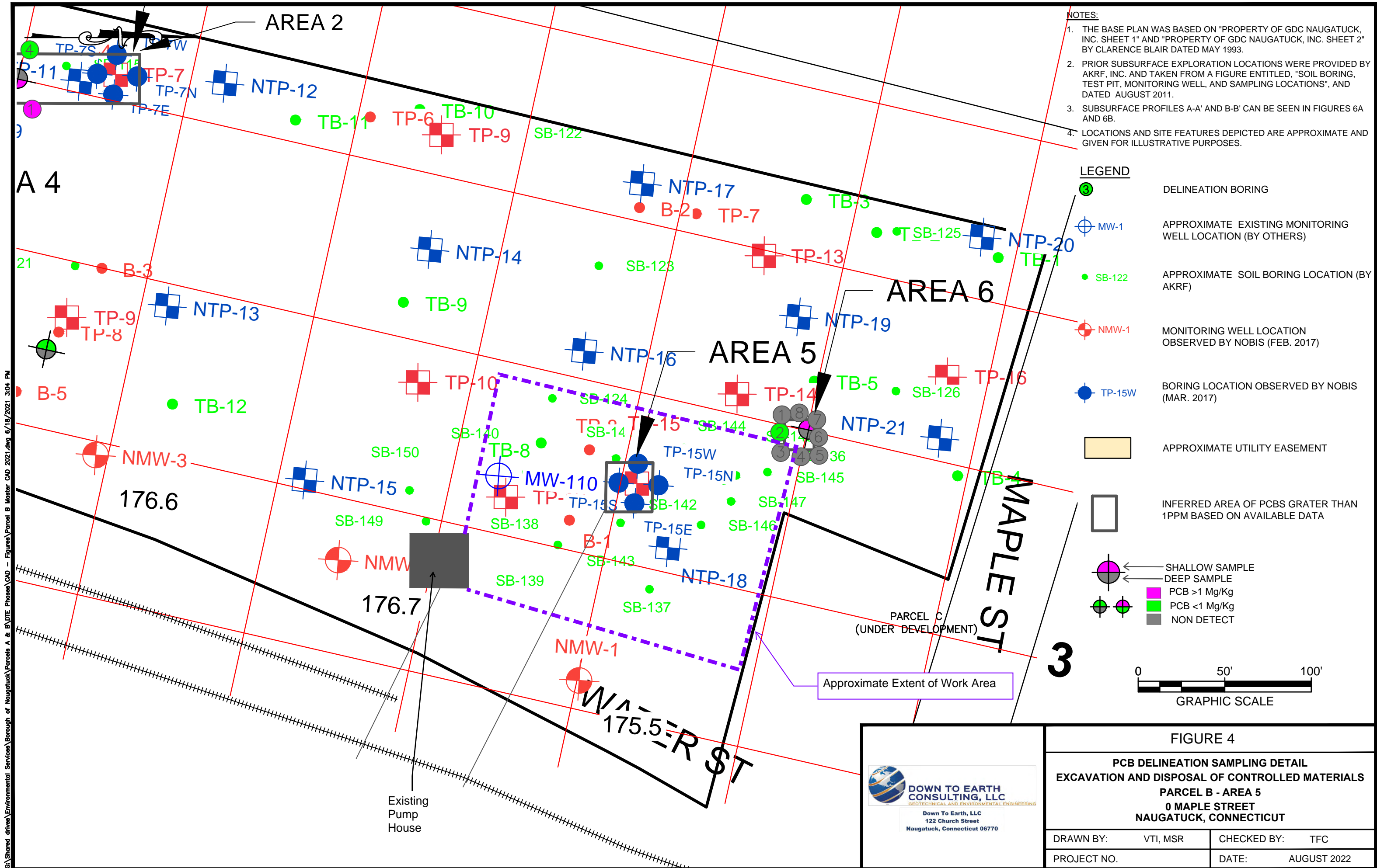
LEGEND

- APPROXIMATE EXISTING MONITORING WELL LOCATION (BY OTHERS)
- MONITORING WELL LOCATION OBSERVED BY NOBIS (FEB. 2017)
- BORING LOCATION BY DOWN TO EARTH (APRIL 2020)
- BORING LOCATION BY DOWN TO EARTH (AUGUST 2020)
- SHALLOW SAMPLE
DEEP SAMPLE
- PCB >1 Mg/Kg
- PCB <1 Mg/Kg
- NON DETECT
- METRO-NORTH RAILROAD TRACKS
- APPROXIMATE PROPERTY LINE
- Vertical Profile Locations (See Figure 7A and 7B)
- APPROXIMATE EXTENT OF WORK AREA



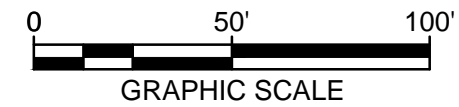
DOWN TO EARTH CONSULTING, LLC
GEOTECHNICAL AND ENVIRONMENTAL ENGINEERING
 Down To Earth, LLC
 122 Church Street
 Naugatuck, Connecticut 06770

FIGURE 3			
EXCAVATION AND DISPOSAL OF CONTROLLED MATERIALS			
PARCEL B - AREA 5			
0 MAPLE STREET			
NAUGATUCK, CONNECTICUT			
DRAWN BY:	VTI, MSR	CHECKED BY:	TFC
PROJECT NO.		DATE:	AUGUST 2022



- NOTES:**
1. THE BASE PLAN WAS BASED ON "PROPERTY OF GDC NAUGATUCK, INC. SHEET 1" AND "PROPERTY OF GDC NAUGATUCK, INC. SHEET 2" BY CLARENCE BLAIR DATED MAY 1993.
 2. PRIOR SUBSURFACE EXPLORATION LOCATIONS WERE PROVIDED BY AKRF, INC. AND TAKEN FROM A FIGURE ENTITLED, "SOIL BORING, TEST PIT, MONITORING WELL, AND SAMPLING LOCATIONS", AND DATED AUGUST 2011.
 3. SUBSURFACE PROFILES A-A' AND B-B' CAN BE SEEN IN FIGURES 6A AND 6B.
 4. LOCATIONS AND SITE FEATURES DEPICTED ARE APPROXIMATE AND GIVEN FOR ILLUSTRATIVE PURPOSES.

- LEGEND**
- ③ DELINEATION BORING
 - MW-1 APPROXIMATE EXISTING MONITORING WELL LOCATION (BY OTHERS)
 - SB-122 APPROXIMATE SOIL BORING LOCATION (BY AKRF)
 - NMW-1 MONITORING WELL LOCATION OBSERVED BY NOBIS (FEB. 2017)
 - TP-15W BORING LOCATION OBSERVED BY NOBIS (MAR. 2017)
 - APPROXIMATE UTILITY EASEMENT
 - INFERRED AREA OF PCBs GRATER THAN 1PPM BASED ON AVAILABLE DATA
 - ← SHALLOW SAMPLE
 - ← DEEP SAMPLE
 - PCB >1 Mg/Kg
 - PCB <1 Mg/Kg
 - NON DETECT

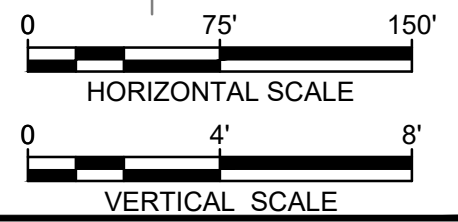
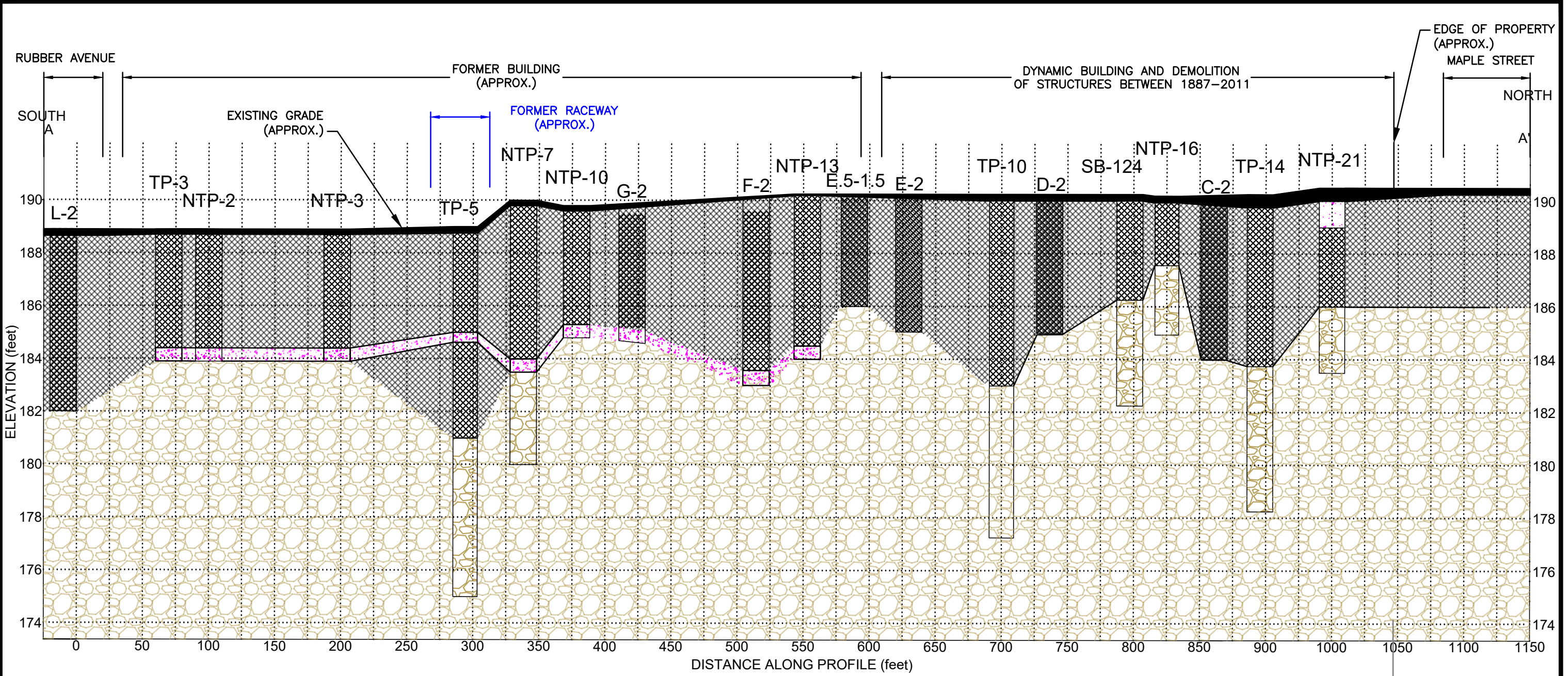


3

FIGURE 4	
PCB DELINEATION SAMPLING DETAIL EXCAVATION AND DISPOSAL OF CONTROLLED MATERIALS PARCEL B - AREA 5 0 MAPLE STREET NAUGATUCK, CONNECTICUT	
DRAWN BY:	VTI, MSR
CHECKED BY:	TFC
PROJECT NO.	DATE: AUGUST 2022

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- NOTES:**
1. DATA CONCERNING THE VARIOUS STRATA HAVE BEEN INTERPRETED AT EXPLORATION LOCATIONS ONLY. STRATIGRAPHY BETWEEN EXPLORATIONS MAY VARY FROM THAT SHOWN.
 2. SEE FIGURE 3 FOR A PLAN VIEW OF SUBSURFACE PROFILE.

LEGEND

- ASPHALT
- FILL
- SAND AND GRAVEL
- CONCRETE SLAB
- APPROXIMATE STRATIFICATION BOUNDARIES. ACTUAL TRANSITIONS WILL VARY.



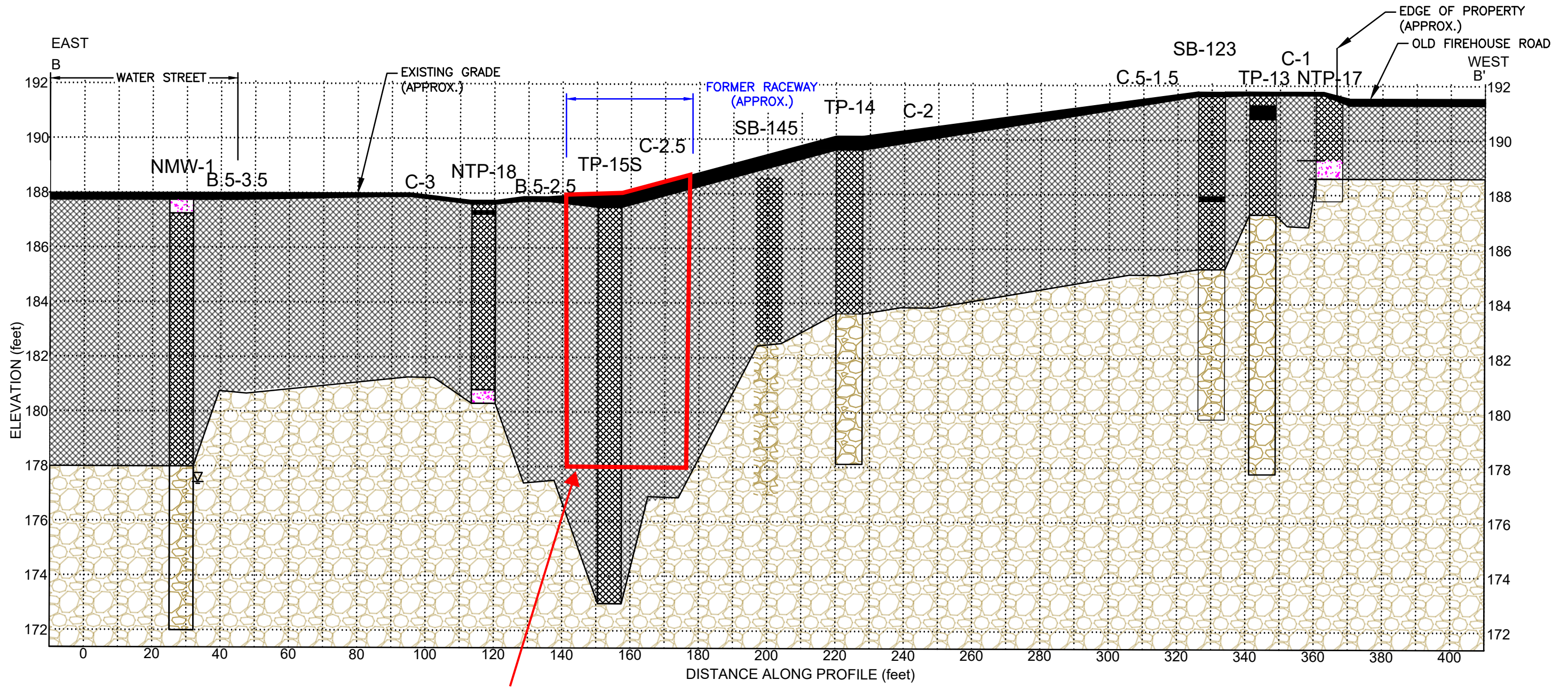
DOWN TO EARTH CONSULTING, LLC
 GEOTECHNICAL AND ENVIRONMENTAL ENGINEERING
 Down To Earth, LLC
 122 Church Street
 Naugatuck, Connecticut 06770

FIGURE 5

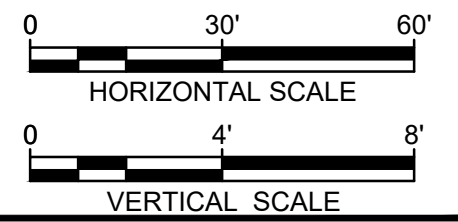
SUBSURFACE PROFILE: VIEW A-A'
EXCAVATION AND DISPOSAL OF CONTROLLED MATERIALS
PARCEL B - AREA 5
0 MAPLE STREET
NAUGATUCK, CONNECTICUT

DRAWN BY: VTI	CHECKED BY: TFC
PROJECT NO.	DATE: AUGUST 2022

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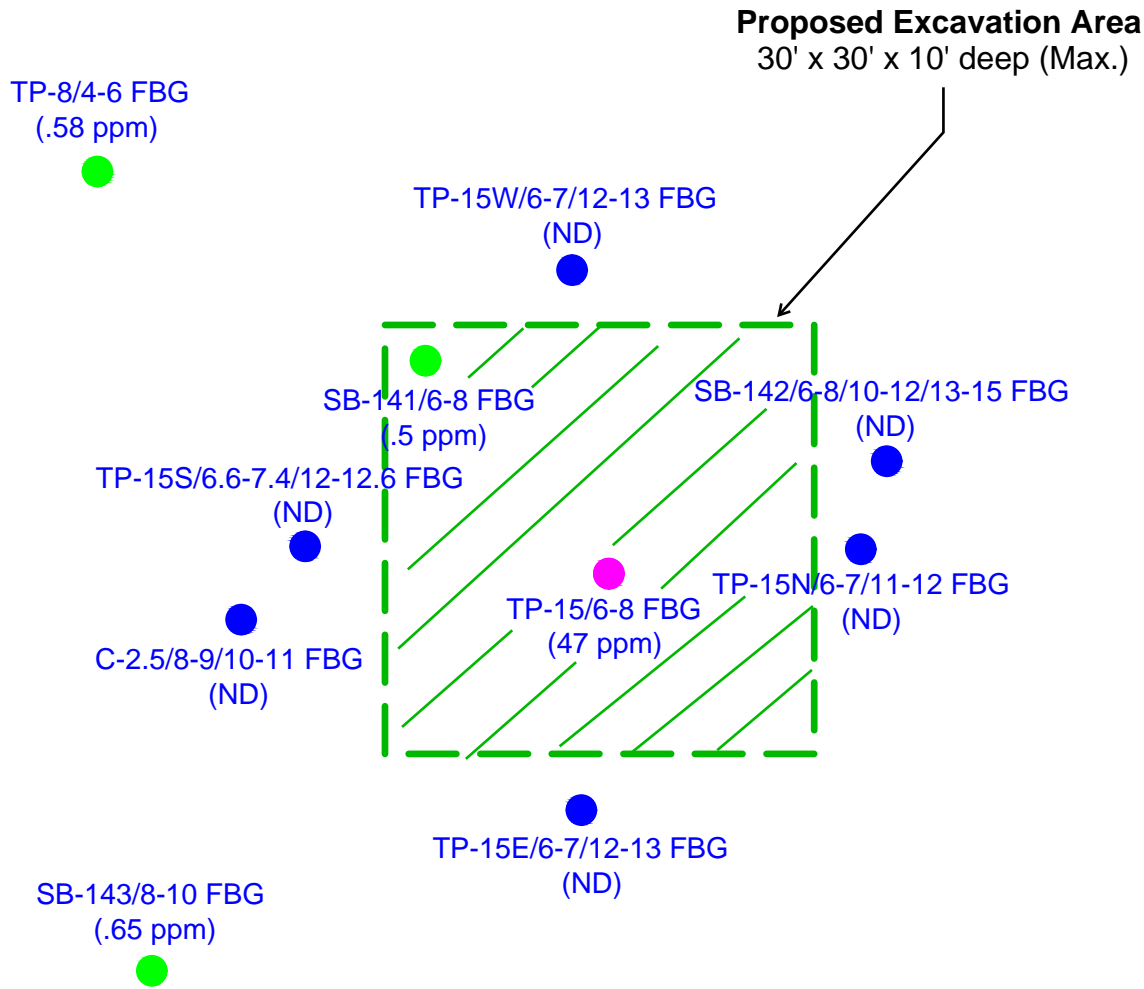
Approximate Vertical Extent
of Remedial Excavation
(~30' x 30' x 10' deep)



- NOTES:**
1. DATA CONCERNING THE VARIOUS STRATA HAVE BEEN INTERPRETED AT EXPLORATION LOCATIONS ONLY. STRATIGRAPHY BETWEEN EXPLORATIONS MAY VARY FROM THAT SHOWN.
 2. SEE FIGURE 3 FOR A PLAN VIEW OF SUBSURFACE PROFILE.

LEGEND	
	ASPHALT
	FILL
	SAND AND GRAVEL
	CONCRETE SLAB
	WATER LEVEL READING AT TIME OF DRILLING
	APPROXIMATE STRATIFICATION BOUNDARIES. ACTUAL TRANSITIONS WILL VARY.

FIGURE 6	
SUBSURFACE PROFILE: VIEW B-B'	
EXCAVATION AND DISPOSAL OF CONTROLLED MATERIALS	
PARCEL B - AREA 5	
0 MAPLE STREET	
NAUGATUCK, CONNECTICUT	
DRAWN BY: VTI	CHECKED BY: TFC
PROJECT NO.	DATE: AUGUST 2022



APPROXIMATE SCALE 1"=15'

LEGEND

● TP-15/6-8 FBG (47 ppm)

□ APPROXIMATE LIMITS OF PCB REMEDIAL EXCAVATIONS

● PCB >10 Mg/Kg
 ● PCB <1 Mg/Kg
 ● NON DETECT

NOTES:

1. THE EXTENTS OF PROPOSED EXCAVATION ARE APPROXIMATE AND BASED ON THE LABORATORY RESULTS IDENTIFIED ON THE TABLES.

FIGURE 7	
AREA 5 DETAIL: ESTIMATED EXTENT OF PCB IMPACT EXCAVATION AND DISPOSAL OF CONTROLLED MATERIALS PARCEL B - AREA 5 0 MAPLE STREET NAUGATUCK, CONNECTICUT	
DRAWN BY: VTI, MSR	CHECKED BY: TFC
PROJECT NO.	DATE: AUGUST 2022

APPENDIX 2

Self- Implementing Cleanup Plan



**DOWN TO EARTH
CONSULTING, LLC**
GEOTECHNICAL AND ENVIRONMENTAL ENGINEERING

**SELF-IMPLEMENTING CLEANUP AND DISPOSAL
OF PCB REMEDIATION WASTE NOTIFICATION
FORMER UNIROYAL PARCEL B: AREA 5
0 WATER STREET
NAUGATUCK, CONNECTICUT**

PREPARED FOR:

Borough of Naugatuck
280 Elm Street
Naugatuck, Connecticut 06770

PREPARED BY:

Down To Earth, LLC
122 Church Street
Naugatuck, CT 06770

June 2021

**Down To Earth, LLC
122 Church Street
Naugatuck, Connecticut 06770
203-683-4155**



**DOWN TO EARTH
CONSULTING, LLC**
GEOTECHNICAL AND ENVIRONMENTAL ENGINEERING

June 23, 2021

Ms. Kimberly N. Tisa
PCB Coordinator (LCRD7-2)
Land, Chemicals and Redevelopment Division
USEPA Region 1
5 Post Office Square, Suite 100
Boston, MA 02109-3912

**Re: Self-Implementing Cleanup and Disposal of PCB Remediation Waste Notification
Former Uniroyal Parcel B: Area 5
0 Maple Street
Naugatuck, Connecticut
REM ID No. 11844**

Dear Ms. Tisa:

On behalf of the Borough of Naugatuck, Down to Earth, LLC has prepared the following Self-Implementing Cleanup and Disposal of PCB Remediation Waste Notification (SIP Notification) for a small area designated "Area 5" located at the former Uniroyal property known as Parcel B at 0 Maple Street in Naugatuck, Connecticut (Site).

Area 5 can be described as a delineated 30-foot by 30-foot area in the northeastern quadrant of the Site. In 2010, AKRF performed a Phase II/III investigation of the property. The investigation identified 47 ppm of PCBs in a soil sample collected in test pit TP-15 from a depth of 6 to 8 feet below grade. In 2017, Nobis Engineering conducted additional sampling at the Site, including sampling to delineate the TP-15/6-8' sample result for PCBs.

In 2017, Nobis Engineering submitted a SIP Notification for five areas where PCBs were identified greater than 1 ppm on the 7.75-acre Site. On November 17, 2017, EPA issued a response to the Notification which stated that the provided sampling did not meet the requirements as specified under 40 CFR §761.61(a) with respect to delineation of PCB contamination at the property.

In response to EPA's November 2017 letter, the Borough conducted additional soil sampling in April and September 2020. Grid sampling and delineation sampling were performed. The objective was to delineate PCB impacts at known areas where PCBs greater than 1 ppm have been identified. These data are presented in this report for information purposes and indicate that low levels of PCBs are sporadically identified in Site soils above 1 ppm but less than 10 ppm.

**Down To Earth, LLC
122 Church Street
Naugatuck, Connecticut 06770
203-683-4155**



**Self-Implementing Cleanup and Disposal
of PCB Remediation Waste Notification
Former Uniroyal Parcel B: Area 5
0 Maple Street, Naugatuck, Connecticut
REM ID No. 11844
June 23, 2021 – Page ii**

This Notification requests EPA approval to:

- a. Excavate and dispose of approximately 350 cubic yards of PCB Remediation Waste with a maximum concentration of 47 ppm from excavation of TP-15 and the designated "Area 5" location. The soils will be disposed at a TSCA approved disposal facility in accordance with 40 CFR §761.61(a)(5)(i)(B)(2)(iii);
- b. Perform post-excavation PCB soil sampling and analyses, to verify the removal of high-level PCB impacts (e.g. PCB concentrations greater than 10 ppm). At the limits of the Area 5 excavation, verification samples will be collected on a 1.5 meter by 1.5-meter grid (or 5 foot by 5-foot grid), as specified by 40 CFR 761, Subpart O. Based on the estimated extent of remedial excavation, Subpart O sampling will require analysis of approximately 60 confirmatory soil samples.
- c. Explore an adjacent former underground mill race to determine its physical condition and indications of contamination (e.g., PCBs in sediment) in preparation for future Site development.

Completion of the remedial excavation proposed in this SIP will significantly lower the statistical median and mean of PCB concentrations in soils at the Site. Once development plans have been finalized, the Borough will submit a risk-based disposal option to cover the entire Site under §761.61(c). The request for a risk-based remedy will incorporate the specifics of an upcoming development plan to include construction of the Naugatuck Railroad Station by the Connecticut Department of Transportation, and other development.

Please contact the undersigned with questions or comments.

Sincerely,

DOWN TO EARTH, LLC

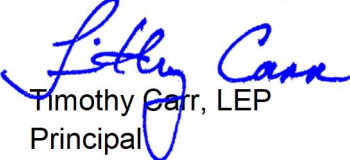

Timothy Carr, LEP
Principal

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- APPENDIX 2 LABORATORY DATA – AREA 5
- APPENDIX 3 STANDARD OPERATING PROCEDURES



**DOWN TO EARTH
CONSULTING, LLC**
GEO TECHNICAL AND ENVIRONMENTAL ENGINEERING

CERTIFICATION

The contact persons responsible for activities associated with this SIP are:

Owner Representative:

James Stewart, P.E.
Director DPW
Borough of Naugatuck
229 Church Street
Naugatuck, CT 06770

Consultant Representative:

Timothy Carr, LEP
Down To Earth, LLC
122 Church Street
Naugatuck, CT 06770

All sampling plans, sample collection procedures, extraction procedures, and instrument/chemical analysis procedures used to assess and characterize PCB contamination at the Site are on file at the location designated in the certificate (Borough Administration Offices) and are available for EPA inspection (as per 761.619(a)(3)(i)(E)). The location of the files are as follows:

Borough of Naugatuck Town Hall
229 Church Street
Naugatuck, CT 06770
(203) 720-7000

Under civil and criminal penalties of the law for the making or submission of false or fraudulent statements or representations (18 USC 1001 and 15 USC 2615) I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify the truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instruction, made verification that the information is true, accurate, and complete.



Signature of Party Conducting Cleanup



Date

James Stewart, P.E.

Printed Name



Signature of Consultant Overseeing Cleanup

6-23-2021

Date

Timothy Carr, LEP

Printed Name



1.0 INTRODUCTION

On behalf of the Borough of Naugatuck, Down to Earth, LLC has prepared the following Self-Implementing Cleanup and Disposal of PCB Remediation Waste Notification (SIP Notification) for a small area designated “Area 5” located at the former Uniroyal property known as Parcel B at 0 Maple Street in Naugatuck, Connecticut (Site).

Area 5 can be described as a delineated 30-foot by 30-foot area in the northeastern quadrant of the Site. In 2010, AKRF performed a Phase II/III investigation of the property. The investigation identified 47 ppm of PCBs in a soil sample collected in test pit TP-15 from a depth of 6 to 8 feet below grade. In 2017, Nobis Engineering conducted additional sampling at the Site, including sampling to delineate the TP-15/6-8’ sample result for PCBs.

In 2017, Nobis Engineering submitted a SIP Notification for five areas where PCBs were identified greater than 1 ppm on the 7.75-acre Site. On November 17, 2017, EPA issued a response to the Notification which stated that the provided sampling did not meet the requirements as specified under 40 CFR §761.61(a) with respect to delineation of PCB contamination at the property. The letter further described that the Borough “may wish to consider the risk-based disposal option under §761.61(c) given the overall size of the property.” A copy of EPA’s letter is included in Appendix 1.

In response to EPA’s November 2017 letter, the Borough conducted additional soil sampling in April and September 2020. Grid sampling and delineation sampling were performed. The objective was to delineate PCB impacts at known areas where PCBs greater than 1 ppm have been identified. These data are presented in this report for information purposes and indicate that low levels of PCBs are sporadically identified in Site soils above 1 ppm but less than 10 ppm. The PCB detections typically occur within a layer of fill located between 0.4 to approximately 4 feet below grade. The fill was generated by demolition of the Uniroyal buildings in the mid-1980s.

In accordance with this Notification, we request EPA approval to:

- a. Excavate and dispose of approximately 350 cubic yards of PCB Remediation Waste with a maximum concentration of 47 ppm from excavation of TP-15 and the designated “Area 5” location. The soils will be disposed at a TSCA approved disposal facility in accordance with 40 CFR §761.61(a)(5)(i)(B)(2)(iii);
- b. Perform post-excavation PCB soil sampling and analyses, to verify the removal of high-level PCB impacts (e.g., PCB concentrations greater than 10 ppm). At the limits of the Area 5 excavation, verification samples will be collected on a 1.5 meter by 1.5-meter grid (or 5 foot by 5-foot grid), as specified by 40 CFR 761, Subpart O. Based on the estimated extent of remedial excavation, Subpart O sampling will require analysis of approximately 60 confirmatory soil samples.



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- c. Explore an adjacent underground mill race to determine its physical condition and indications of contamination (e.g., PCBs in sediment) in preparation for future Site development.

Completion of the remedial excavation proposed in this SIP will significantly lower the statistical median and mean of PCB concentrations in soils at the Site. Once development plans have been finalized, the Borough will submit a risk-based disposal option to cover the entire Site under §761.61(c). The request for a risk-based remedy will incorporate the specifics of an upcoming development plan to include construction of the Naugatuck Railroad Station by the Connecticut Department of Transportation, and other development.

1.1 BACKGROUND

The Borough of Naugatuck owns the property and has used funding support provided by Brownfield Assessment Grant # 2013088003 from the Connecticut Department of Economic and Community Development (DECD) to assess the Site and develop a conceptual site model to support the cleanup plan. On November 7, 2017, the Site was approved to enter the Connecticut Department of Community and Economic Development's "Brownfield Remediation and Revitalization Program" (BRRP). The BRRP approval letter is included in Appendix 1.

In 2017, Nobis Engineering submitted a SIP Notification for five areas where PCBs were identified greater than 1 ppm on the 7.75-acre Site. On November 17, 2017, EPA issued a response to the Notification which stated that additional, "EPA has determined that the Notification does not meet the requirements as specified under 40 CFR §761.61(a) with respect to delineation of PCB contamination at the property. If the Town would like to pursue the self-implementing cleanup and disposal approach, given that the source of the PCBs is believed to be associated with building debris, additional sampling will be necessary to ensure that the > 1 ppm PCBs at the property have been identified. The Town also may wish to consider the risk-based disposal option under §761.61(c) given the overall size of the property." A copy of EPA's letter is included in Appendix 1.

In response to EPA's November 2017 letter, the Borough conducted additional soil sampling in April and September 2020. The objective of the sampling was to delineate PCB impacts at known areas where PCBs greater than 1 ppm had been identified (grid sampling and delineation sampling). These data are presented in this report for information purposes and indicate that low levels of PCBs are sporadically identified in Site soils above 1 ppm but less than 10 ppm. The PCB detections typically occur with a layer of fill located between 0.5 to approximately 4 feet below grade and generated by demolition of the Uniroyal buildings.



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Relatively low levels of PCBs (generally less than 1.0 mg/kg) have been distributed sporadically across the 7.75-acre Site within a building demolition debris fill layer generally encountered between 0.5 and 4 feet below grade. The debris fill layer was generated from the demolition of former Uniroyal manufacturing facilities which occupied approximately 90% of the Site area until demolition in 1986. PCBs have been detected in soils at concentrations greater than the TSCA cleanup level of 1 ppm for “high occupancy” areas and the Remediation Standard Regulation (RSR) Residential Direct Exposure Criteria (R-DEC) in seven separate and discrete areas of the Site. These locations are identified as Areas 1 through 7 on the attached figures. This Notification is limited to Area 5 where the highest concentration of PCBs has been identified.

2.0 SITE DESCRIPTION AND HISTORY

The Site is located in a commercial area of downtown Naugatuck, Connecticut (Figure 1). A Site Plan is included as Figure 2. The 7.75-acre lot, referred to as Parcel B, consists of a paved and gravel parking area extending from Rubber Avenue in the south to Maple Street in the north. Old Firehouse Road establishes the western boundary of the Site, and an active Metro North Railroad right-of-way abuts the Site to the east.

The only remaining on-Site structure is a 400-square foot, brick building formerly used as a Pump House for fire control water. This building is approximately 20 feet tall and extends an additional 15 feet below ground surface (fbg) adjacent to a former water canal. The Pump House is scheduled for demolition by the Fall of 2021.

The Site has a significant industrial history dating from the 1860s until circa 1985. Historical site operations primarily consisted of the manufacturing of rubber goods including shoes, sneakers, and gloves. Several companies operated at the Site including Goodyear India Rubber Glove Manufacturing Company, Goodyear Metallic Rubber Shoe Company, United States Rubber, and Uniroyal, Inc. Goodyear/U.S. Rubber/Uniroyal facilities operated in several areas of Naugatuck, including those across Old Firehouse Road to the west and across Maple Street to the north.

Former manufacturing operations included grinding, milling, vulcanizing, varnishing, an acid house, a paint shop, a lacquer house, benzene storage, naphthalene storage, rail lines and spurs, canals, machine shops, a battery shop, a tin shop, laboratories, mechanical/electrical equipment, three boiler houses, and site maintenance facilities. A review of historical site plans did not identify the presence of electrical substations or transformers on the Site.

Numerous buildings, structures, drainage ways, and utilities served the various industrial activities at the Site, and a roadway (Water Street) formerly ran north-south along the eastern portion of the Site. Parcel B was approximately 90 percent occupied by the various factory buildings until



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they were demolished circa 1986. A portion of the building demolition debris was reused on Site to bring the Site to its current grade, then overlain by road base material and asphalt. The Site has been a vacant asphalt lot since the mid-1980s.

A 5,600 square foot area in the central portion of Parcel B located to the south of Area 5 was more recently used to store a stockpile of PCB contaminated soil which was generated during development of Parcel C. This soil was stored on plastic and was disposed in March 2020 with the approval of the EPA. The maximum concentration of PCBs in the 1,800 cubic yard stockpile was 18 ppm.

3.0 CONCEPTUAL SITE MODEL

This section presents the Conceptual Site Model (CSM) for the Site. The CSM was developed based primarily on the interpretation of findings presented in the following reports:

- Phase I ESA, June 2007 (HRP)
- Phase I ESA, August 2010 (AKRF)
- Phase II/III ESA and Remedial Action Plan, April 2012 (AKRF)
- Phase III Addendum, October 2017 (Nobis)
- SIP Notification, dated October 2017 (Nobis)

The CSM summarizes our understanding of the relationships between release mechanisms, contaminant extent, fate, and migration including environmental setting, sources of soil contamination, nature and extent of contamination, and contaminant migration pathways, fate and transport. For the purposes of the Notification Addendum, the CSM is specific to PCBs and no other contaminants of concern.

3.1 CLEANUP LEVELS FOR PCBs

In accordance with federal and state regulations, the cleanup levels for total PCBs in soil (as measured by EPA Method 8082) using Soxhlet extraction are as follows:

- The TSCA cleanup level for high occupancy areas equals 1 mg/kg without further conditions, or 10 mg/kg if covered with a cap meeting the requirements of 40 CFR 761.61(a)(7) and implementation of a deed restriction.
- The Residential Direct Exposure Criterion (R-DEC) is 1 mg/kg



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- The Pollutant Mobility Criterion for PCBs in a GB groundwater area (GB-PMC) is 0.005 mg/L, as tested using either the Synthetic Precipitation Leaching Procedure (SPLP) or Toxicity Characteristic Leaching Procedure (TCLP).

In accordance with RCSA 22a-133k-3, the remedial criterion for PCBs in groundwater in a GB groundwater area is the Surface Water Protection Criterion (SWPC) of 0.0005 mg/L.

3.2 CONTAMINANT FATE AND TRANSPORT

Based on the findings of the environmental assessments and historical document review, the manufacturing processes were decommissioned and removed from the Site before the buildings were reportedly demolished and used as backfill to establish the current grade. Based on review of historical site plans, no on-site electrical substations or transformers were identified. The buildings may have contained capacitors and/or small equipment with PCB electrical components. The segregation of all PCB-containing equipment may not have been complete prior to demolition activities; therefore, it is reasonable to conclude that the demolition debris itself is the source of the contamination.

As part of the proposed remediation excavation of Area 5, we propose to assess the adjacent underground canal/mill race to evaluate if sediments may be present at depth which were the result of the PCBs detected in TP-15.

Further discussion of PCBs detected in soil samples is presented in the following sections.

3.3 SITE ENVIRONMENTAL SETTING

Information related to the environmental setting of the Site and vicinity was obtained from the Connecticut Environmental Conditions On-line (CTECO) website which is maintained by the University of Connecticut: <http://ctecoapp1.uconn.edu/advancedviewer/>. Figure 3 was developed using portions of the information obtained from this resource, as summarized below.

3.3.1 Topography

The Site is relatively flat with a gentle slope to the south and east. The Site is located in a historic flood plain of the Naugatuck River. The adjacent railroad bed to the east is built up approximately 15 feet above the elevation of the Site. Several canals/raceways are/were located beneath the Site and provided hydro power to the manufacturing facilities. Groundwater beneath the Site has been identified to flow to the east towards the Naugatuck River.



3.3.2 Surficial Geology and Bedrock

Surficial geologic materials are described by the CTECO website as sand and gravel overlying sand (sg/s). This surficial material is composed of mixtures of gravel and sand horizontally bedded, and overlies thicker, inclined layers of sand (deltaic deposits). Sand and gravel layers are generally less than 20 feet thick.

Exhibit A below (of test pit NTP-7) provides a visual depiction of a typical cross section or subsurface profile of materials observed on Parcel B. During subsurface investigations, a layer of fill containing building demolition debris was encountered directly below the asphalt and road material. The fill generally increased in thickness from west to east, from 2.5 feet thick near Old Firehouse Road to approximately 10 feet thick along the former Water Street. The thickness of fill was observed to be greater along former raceways, to a depth of approximately 12 feet bgs.

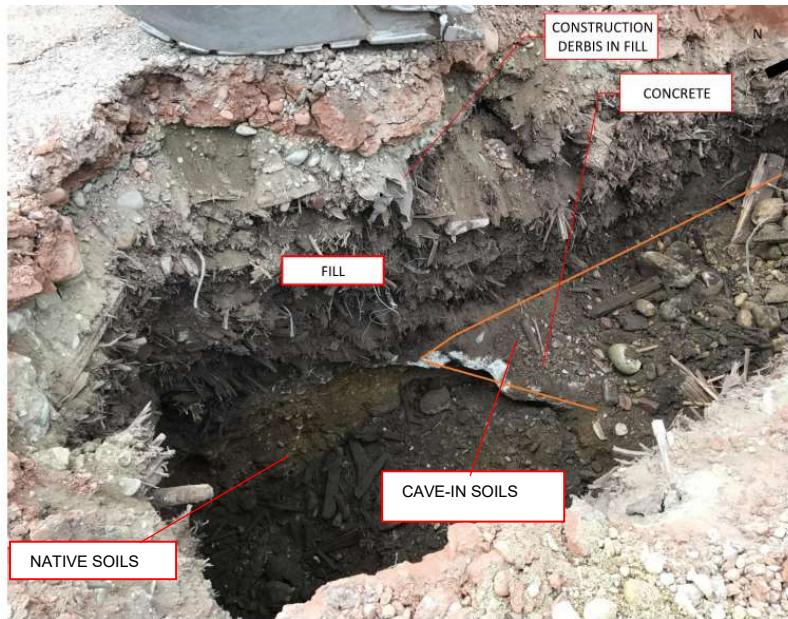


Exhibit A. Photograph of test pit NTP-7.

The fill on Parcel B contained significant amounts of wood, brick, concrete and metal. The fill on the southern portion of the Site predominantly consisted of wood with other construction debris. The fill on the northern portion of the Site primarily contained brick and crushed concrete with less wood and other bulky waste debris. A concrete slab is present below a majority of the fill layer. Subsurface profiles or cross sections of the conditions provide interpretations of the subsurface fill and natural sands and gravel across the Site.



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Natural soils were encountered below the fill and concrete slabs throughout the Site. These native materials consist of sand and gravel with cobbles and boulders. The natural sand and gravels were encountered below the former concrete building slabs and/or similar depths throughout Parcel B.

The Bedrock Geological Map of Connecticut (Rogers, 1985) identified Waterbury Gneiss underlying the Site. Waterbury Gneiss is described as gray to dark gray, fine to medium grained schist and gneiss. Bedrock was reportedly encountered on the Site at various depths during a 2001 Geoprobe® subsurface exploration (GCI 2001) and was described as micaceous schist. Subsequent investigations did not encounter bedrock on the Site due to shallow refusals on boulders, cobbles or former building structures. Given the documented geologic conditions (bedrock at 39 feet bgs) on Parcel C to the north of the Site, and the findings of test pits and monitoring wells on the Site, it is expected that no bedrock will be encountered at the Site during remediation activities. Bedrock outcrops were noted along the Naugatuck River, north of the Site.

3.3.3 Hydrogeology

Groundwater underlying the Site is classified by the CTDEEP as Class GB. GB groundwater is defined as being located within a historically highly urbanized area or an area of intense industrial activity and where public water supply service is available. Such groundwater may not be suitable for human consumption without treatment due to waste discharges, spills or leaks of chemicals or land use impacts¹.

The Naugatuck River, located to the east of the Site beyond the Metro North Railroad tracks, is denoted as a Class B surface water body. Class B surface waters are known or presumed to meet criteria which support designated uses such as habitat for fish and other aquatic life and wildlife; recreation; navigation; and industrial and agricultural water supply.

Based on regional topography and drainage considerations, groundwater beneath the Site is inferred to flow in an easterly/southeasterly direction toward the Naugatuck River. Groundwater elevation data collected from on-site monitoring wells confirms the flow direction. Previous environmental investigations have identified that historic canals and other drainage features influence the groundwater flow direction and gradient.

¹ State of Connecticut Department of Environmental Protection, "Water Quality Standards", Effective February 25, 2011 and April 12, 1996.



Based on groundwater sampling summarized in Nobis Engineering's Phase III Addendum report and groundwater monitoring conducted by Down To Earth in May 2020, groundwater at the Site meets state remedial standards for Surface Water Protection Criteria and Volatilization Criteria. In May 2020, fifteen existing monitoring wells were sampled and analyzed for PCBs. PCBs were not detected in groundwater.

3.4 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

Previous environmental reports were reviewed and summarized during preparation of the original SIP (Nobis, 2017). The reports reviewed by DTE included the following:

- Phase II Subsurface Investigation, dated July 2001 (GCI)
- Subsurface Explorations, dated September 2002 (AER)
- Report on Subsurface Investigations at General DataComm, dated September 2002 (HRP)
- Phase I ESA, June 2007 (HRP)
- Phase I ESA, August 2010 (AKRF)
- Phase II/III ESA and Remedial Action Plan, April 2012 (AKRF)
- Phase III Addendum, October 2017 (Nobis)
- SIP Notification, dated October 2017 (Nobis)

Based on review of the available information, no sources of PCBs greater than 50 ppm source of PCBs were identified to have been located on-site. This includes reviews of the above-referenced reports and historical site maps. No information was found to indicate that a release of PCBs occurred prior to April 18, 1978 at the TP-15 (Area 5) location or elsewhere on-site

4.0 ADDENDUM PCB SAMPLING

On April 21, 2020, DTE submitted a SIP Addendum Work Plan to the EPA which identified additional sampling and analysis of Site soils proposed to better characterize PCBs in the fill. The results of the sampling proposed in the Work Plan is summarized below.

DTE oversaw the completion of fifty soil borings which were distributed in a grid pattern across the Site, as shown on Figure 4. The objective of the sampling was to respond to EPA's November 17, 2017 letter regarding Nobis Engineering's initial 2017 Notification (see letter in Appendix 1).



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The soil borings were completed by Cisco Geotechnical, LLC (Cisco) of Glastonbury, Connecticut using a Geoprobe® 3230 drill rig and the direct-push drilling method. The borings were installed on an approximate 100-foot grid which was established using a Global Positioning Satellite receiver operated by a licensed surveyor. The locations were designated using the letter and number grid line designations shown on Figure 5.

4.1 SOIL BORINGS

Soil samples were collected continuously from the ground surface to generally 10 feet below grade (fbg). Borings were extended to the maximum depth explored of 15 fbg if the depth of fill extended deeper than 10 feet. Soil samples were collected using a 2.25-inch diameter, 5-foot long steel macro-core sampler. Soil samples were screened in the field for the presence of VOCs using a MiniRae 2000 photoionization detector (PID). The PID was calibrated using an isobutylene in air standard, in accordance with manufacturer's instructions.

4.2 SOIL ANALYSES FOR PCBs

In accordance with the SIP Addendum Work Plan (DTE, April 2020), two samples from each boring were collected for laboratory analysis. A shallow sample (less than 5 fbg) was selected for PCB analysis from the observed fill materials and a second sample from a depth typically ranging between 5 to 10 fbg was selected to represent clean fill or natural soils.

A total of 164 soil samples, including duplicate samples submitted for quality assurance and quality control purposes, were submitted to Phoenix Environmental Laboratories, Inc. (Phoenix) of Manchester, Connecticut. The samples were kept in iced coolers and managed in accordance with standard chain of custody protocols. All samples were analyzed for PCBs by EPA Method 8082 using Soxhlet extraction (SW3540C) methods. Select soil samples were chosen for additional analysis of volatile organic compounds (VOCs) by EPA Method 8260, PAHs by EPA Method 8270, CT ETPH, and total RCRA 8 metals. The laboratory was requested to report all data in conformance with the Reasonable Confidence Protocol (RCP) Guidance published by the CTDEEP.²

² State of Connecticut Department of Energy and Environmental Protection, "Laboratory Quality Assurance and Quality Control, Data Quality Assessment and Data Usability Evaluation Guidance Document", May 2009.



4.3 SUBSURFACE CONDITIONS ENCOUNTERED

The borings encountered fill material consisting of varying sands mixed with building debris (wood, brick, cinders, concrete) at shallow depths below the pavement to approximately 5 fbg. Natural deposits of sand and gravel alluvium were encountered immediately below the fill at depths which typically ranged from 5 fbg to 10 fbg. These observations are consistent with the previous environmental investigations and our Conceptual Site Model.

Subsurface Profiles were updated based on profiles prepared by Nobis and included in the original Notification. The profiles are included as Figures 7A and 7B.

4.4 PCB RESULTS IN SOIL SAMPLES

The results of PCB analyses completed as part of Down To Earth's Work Plan (April 2020) and the results of PCB delineation sampling completed by others is summarized below. At this time, seven locations have been identified to have as-found PCB concentrations above 1 ppm in soil. The locations and estimated extents of Areas 1 through 7 are identified on Figures 4, 5, 6A and 6B.

4.4.1 Additional PCB Sample Results from April and August 2020

The laboratory analytical results for PCB samples collected in April 2020 are summarized on Table 1. The laboratory analytical results for PCB samples collected in August 2020 are summarized on Table 2.

Laboratory analytical results indicate concentrations of PCBs above laboratory reporting limits in 44 of the 164 soil samples analyzed. PCBs were detected above 1 mg/kg in thirteen soils samples. The highest concentration of 4.8 ppm was reported in sample J-2.5/2-3. None of the samples exceeded the industrial/commercial Direct Exposure Criterion of 10 ppm. In general, the highest frequency of detected PCBs and related concentrations occurred in the fill layer. Eleven samples contained detected PCB concentrations at less than 1 mg/kg.

4.4.2 Compiled PCB Detection Statistics (AKRF, Nobis Engineering, & DTE Data)

Down To Earth compiled PCB analytical data summarized in the prior reports identified above in Section 3.4. The compiled PCB results for samples obtained by AKRF, Nobis, and Down To Earth are summarized on Table 3. The results can be statistically summarized as follows:



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Sample Round	Samples Analyzed for PCBs³	PCB Detections	No. of Samples PCBs >1 ppm	No. of Samples PCBs >10 ppm	Maximum Concentration & Locations
AKRF 2010	37	15	4	1	47 ppm TP-15/6-8 ft
Nobis 2017	45	10	7	0	4.5 ppm TP-5W/1-2 ft
DTE 2020	164	44	13	0	4.8 ppm J-2.5/2-3 ft
Totals	246	69	24 samples or 9.8% FOD ⁴	1 sample or 0.4% FOD	

With the exception of the 2010 detection of 47 ppm PCBs in sample TP-15/6-8 ft, none of the other detections have exceeded the I/C-DEC of 10 ppm.

4.5 OTHER CONTAMINANTS OF CONCERN IN SOILS

The results of soil analyses for other Contaminants of Concern (COCs) are summarized on Table 5. The data indicate the soils are sporadically impacted by polynuclear aromatic hydrocarbons, petroleum hydrocarbons and metals (lead).

4.6 GROUNDWATER SAMPLING FOR PCBs

On May 11 and 12, 2020, DTE collected groundwater samples from fifteen existing groundwater monitoring wells located on both Parcels A and B. Groundwater samples were collected from monitoring wells: NMW-1, NMW-2, NMW-3, NMW-4, NMW-5, NMW-6, NMW-7, NMW-8, MW-3, MW-5, MW-101, MW-102, MW-103, MW-106, and MW-110. Monitoring well locations are shown on Figure 2. The groundwater results are summarized on Table 6.

The groundwater samples were collected using low flow purging techniques.⁵ Prior to sample collection, the depth to static groundwater was measured in each monitoring well and converted to elevation based on the National Geodetic Vertical Datum of 1988 (NAVD88). Piezometric

³ Total includes QA/QC duplicates

⁴ FOD= Frequency of Detection

⁵ United States EPA Region I, "Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples From Monitoring Wells", Revised January 19, 2010.



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measurements indicate an easterly groundwater flow direction, consistent with prior determinations and regional topography and drainage.

All groundwater samples were analyzed for PCBs as well as other contaminants of concern. No PCBs were detected in any of the groundwater samples collected, indicating that the PCBs in soils are not leaching into the groundwater. The lack of dissolved-phase PCBs in groundwater is consistent with the CSM, low concentrations identified in soils, and the typical fate and transport of PCBs in the environment.

5.0 AREA 5 PCB REMEDIATION PLAN

The following sections identify the remedial objectives for the Site, describe the Area 5 Cleanup Plan, and provide the basis for this plan. The Area 5 Cleanup Plan has been prepared in accordance with 40 CFR 761.61(a) and the United States Environmental Protection Agency's (USEPA's) "TSCA Self-Implementing PCB Cleanups Checklist-61(a)".

The proposed PCB remediation area is equivalent to the estimated area impacted by PCB releases above 1 mg/kg, which is approximately 30 feet by 30 feet or 900 square feet in size, as shown on Figures 6A and 8. The objective of this Notification is to establish an excavation and cleanup verification strategy that is sufficient to document achievement of the TSCA cleanup level for high occupancy areas (less than 1 ppm) to permit redevelopment of the remainder of the Site using a risk-based clean-up strategy per 40 CFR 761.61(c). The remedy will incorporate green strategies to the extent such strategies are protective to human health and the environment.

5.1 CLEANUP LEVELS

The primary cleanup objective for soils in Area 5 is remove soils containing greater than 1 ppm PCBs from soils to a maximum depth of 10 feet below grade. This is anticipated to result in the excavation of approximately 350 cubic yards of PCB Remediation Waste. The soils will be transported to a TSCA-approved disposal facility in accordance with 40 CFR §761.61(a)(5)(i)(B)(2)(iii).

Post-excavation verification soil sampling will be performed along a grid with a sampling density of 5 feet by 5-feet, as specified by 40 CFR 761.265 Subpart O. Separate verification sampling grids will be set up for each removal area to include excavation bottoms and sidewalls. Additional soil excavation will be undertaken at locations where verification sampling results are greater than 1 mg/kg and each additional excavation area will be resampled until all soils within 4 feet of the ground surface are less than 1 mg/kg.



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Soil samples exhibiting PCB concentrations greater than 1 mg/kg, but less than 10 mg/kg, that are deeper than 4 feet bgs may be left in place, since a cap and ELUR are required to achieve compliance with the RSRs due to the presence of PAHs, petroleum hydrocarbons and certain metals above remedial criteria. The cap and ELUR remedial strategy are consistent with anticipated redevelopment plans.

5.2 PUBLIC NOTICE OF REMEDIATION

At least 30 days prior to the start of work, public notice of remediation will be completed, as required.

5.3 PERMITTING

CTDEEP permit applications will be prepared as may be required to complete remedial earthwork at the Site.

5.4 VOLUME AND MASS ESTIMATES OF PCB REMEDIATION WASTE

As-found PCB concentrations at Area 5 identified on Figure 8 and summarized on Tables 3 and 4. Based on the results of the analysis of nearly 28 soil samples, it is estimated that the total volume of soil known to be affected PCBs at greater than 1 mg/kg is approximately 333 cubic yards or less. The from frequency of detections at this location is low, Area 5 has the maximum concentration of PCBs identified of 47 ppm. As summarized on Table 4 and Figure 8, PCBs were detected at less than 1 ppm in three other soil samples intended to assess the area.

Based on the horizontal and vertical delineation of PCBs, the estimated volume and weight of PCB impacted soil at Area 5 to be:

PCB Excavation Area	Estimated Depth (ft)	Estimated Area (ft²)	Estimated Volume (yd³)	Estimated Volume w/ 25% Contingency (yd³)	Estimated Mass (tons) @1.5 tons/yd³
Area 5	10	900	333	416	624

Further sampling and remediation activities are discussed below. The presence of heterogenous soil conditions, and other factors may impact these estimates. To account for these unknowns, a 25 percent contingency was added to the volume estimates for soils exhibiting various PCB concentrations above standard.



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During the remedial excavation, the structural integrity and potential for PCBs in sediments will be assessed in the adjacent mill race.

5.5 SITE PREPARATION

Site work will be performed by a remediation contractor who has the requisite knowledge and experience to meet the remedial objectives and regulatory requirements of this plan. All site work will be completed by personnel who have received training in accordance with OSHA regulations 29 CFR 1910.120 (Hazardous Waste Operations and Emergency Response).

The remedial contractor will be responsible for securing the Site using perimeter fencing and signage, restricting access to the Site, delineating work areas, and constructing waste storage areas for stockpiles and load-out.

Dust mitigation measures will be implemented as needed to minimize the generation of dust in the remediation areas via the use of water sprays and mists. Based on the concentrations of PCBs observed in soils to date, an action limit of no visible dust would be protective of potential receptors. If dust control measures are unable to reduce dust generation below this threshold, perimeter air monitoring will be performed to ensure that fugitive dusts containing PCBs are not leaving the Site.

Soil stockpiles will be used to temporarily store excavated soil and debris for profiling and waste characterization purposes prior to off-Site disposal. Soil stockpiles will be segregated based on expected PCB concentrations, per the results of prior sampling results. The soil stockpiles will be placed onto a polyethylene liner (6-mil minimum) and covered with the same type of liner. The perimeter of each stockpile will be lined with erosion and sedimentation controls to prevent run-on and run-off during precipitation events. Liners will be ballasted to prevent damage or removal by wind. Soil stockpiles will remain covered outside of work hours and maintained in good condition when not actively being managed and in accordance with the Contaminated Soil Stockpile General Permit. PCB remediation wastes containing greater than 50 mg/kg of PCBs will be stockpiled in accordance with 40 CFR 761.65(c)(9).

5.6 SOIL EXCAVATIONS

Excavation activities include the removal and stockpiling of between 300 to 400 cubic yards of soils from Area 5. We estimate that approximately 350 tons of soil will be generated to a maximum depth of 10 feet below grade.



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Area 5 will be systematically and carefully excavated. Significant excavation outside of the limits of the areas will not occur unless deemed necessary by verification sample results. The excavated soils will be temporarily stockpiled in a prepared Waste Storage Area. Excavated materials from Area 5 (approximately 624 tons), which may contain PCBs at concentrations greater than 25 mg/kg but less than 50 mg/kg will be disposed at a TSCA approved disposal facility in accordance with 40 CFR §761.61(a)(5)(i)(B)(2)(iii).

Once disposal approvals are obtained, the soils will be loaded onto permitted dump trailers for off-site disposal at the approved TSCA disposal facility.

5.7 VERIFICATION SOIL SAMPLING

Discrete confirmatory soil sampling will be obtained on 1.5 meter (5-foot) centers from the exposed sidewalls and bottoms of excavated areas to demonstrate that areas have been abated to concentrations less than 1 mg/kg. The samples will be analyzed using Soxhlet extraction methods. Excavation considerations will include the following:

Total Wall Surface Area (sq ft)	Estimated Bottom Surface Area (sq ft)	Estimated Total Surface Area (sq ft)	Estimated No. of Confirmatory Samples (1 samples/25 sq ft)
1,200	900	2,100	84

- Excavations in Area 5 may encounter concrete slabs and foundation elements. confirmatory sampling protocol for porous material will take place in conformance with the Standard Operating Procedures included in Appendix 4.
- If soils are encountered with PCBs greater than 1 mg/kg but less than 10 mg/kg, at a depth greater than 4 feet below ground surface, they may be left in place, and documented by horizontal and vertical survey methods. The Borough will achieve compliance with the TSCA cleanup level for high occupancy areas and the RSRs through placement of a TSCA-compliant cap and implementation of a deed restriction (ELUR).

Verification soil samples will be designated "Area #", then by consecutive numbers, and then by the depth. Only discrete soil sampling in depth increments of 3 inches, is proposed (no composite soil sampling). Based on the estimated areas, the following is an estimate of the number of verification soil samples that will be collected during the project:



5.8 DECONTAMINATION PROCEDURES

Decontamination will be performed on any equipment that comes into contact with PCB contaminated soil in accordance with 40 CFR Part 761.79 and the Standard Operation Procedure included in Appendix 3. The following steps will be followed to ensure that equipment is properly decontaminated:

- A decontamination area will be designated on the Site. All equipment used in the Exclusion Zone will be cleaned and wipe tested for PCBs before leaving the Site. Equipment used in remediation activities will be decontaminated by power washing using scrub brushes and organic solvents.
- Reusable field sampling equipment will be decontaminated prior to sample collection at each sample location to prevent cross-contamination of samples.
- Unless it is decontaminated, field sampling equipment will be disposed of at a PCB permitted facility.
- Wash water will be collected in 55-gallon drums or a settling tank and disposed of off-site in accordance with federal regulations.
- Wipe sampling will be conducted on equipment used in remediation prior to leaving the Site as follows:
- Wipe sample areas will be 100 cm² (40 CFR 761.310).
- One wipe sample will be collected (by applying hexane to a single use gauze pad) from each square meter for equipment that contacts PCB media (e.g., truck beds, excavator buckets, etc.). The gauze pad will be placed in a 4 oz glass jar supplied by the laboratory, tightly capped and labeled.
- If wipe sample results indicate the presence of PCBs below a concentration of 10 µg/cm³, equipment can be removed from the Site (40 CFR 761.79).
- If wipe sample results indicate the presence of PCBs above 10 µg/cm³, the equipment will be re-decontaminated and retested.



6.0 SUMMARY AND CONCLUSION

The Borough of Naugatuck proposes to complete the remediation of PCBs at Area 5 in accordance with relevant sections of 40 CFR 761.61(a). The Notification requests EPA approval to:

- a. Excavate and dispose of between 300 to 400 cubic yards of PCB Remediation Waste with a maximum concentration of 47 ppm from excavation of TP-15 and the designated "Area 5" location. The soils will be disposed at a TSCA approved disposal facility in accordance with 40 CFR §761.61(a)(5)(i)(B)(2)(iii);
- b. Perform post-excavation PCB soil sampling and analyses, to verify the removal of high-level PCB impacts (e.g., PCB concentrations greater than 10 ppm). At the limits of the Area 5 excavation, verification samples will be collected on a 1.5 meter by 1.5-meter grid (or 5 foot by 5-foot grid), as specified by 40 CFR 761, Subpart O. Based on the estimated extent of remedial excavation, Subpart O sampling will require analysis of approximately 60 confirmatory soil samples.

Completion of the remedial excavation proposed in this SIP will significantly lower the statistical median and mean of PCB concentrations in soils at the Site. Once development plans have been finalized, the Borough will submit a risk-based disposal option to cover the entire Site under §761.61(c). The request for a risk-based remedy will incorporate the specifics of an upcoming development plan to include construction of the Naugatuck Railroad Station by the Connecticut Department of Transportation, and other development.

TABLES

TABLE 1	SUMMARY OF PCB ANALYTICAL RESULTS (APRIL 2020)
TABLE 2	SUMMARY OF PCB ANALYTICAL RESULTS (AUGUST 2020)
TABLE 3	SUMMARY OF OTHER COCs IN SOIL SAMPLES (2020)
TABLE 3	SUMMARY OF ALL PCB DATA (2001-2020)
TABLE 5	GROUNDWATER ANALYTICAL RESULTS (MAY 2020)

TABLE 1
SUMMARY OF PCB ANALYSIS OF SOILS SAMPLES - APRIL 2020
FORMAL UNIROYAL PARCEL B
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Sample Designation and Depth (fbg)	PCB Aroclor Concentrations (ug/kg)									
	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	PCB-1262	PCB-1268	Total PCBs
A-1/2-3'	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360
A-1/7-8'	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370
A-2/3-4'	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390
A-2/8-9'	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390
B.5-2.5/13-14'	< 530	< 530	< 530	< 530	< 530	< 530	< 530	< 530	< 530	< 530
B.5-2.5/3-4'	< 510	< 510	< 510	< 510	< 510	< 510	< 510	< 510	< 510	< 510
B.5-2.5/7.8'	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390
B.5-2/4-5'	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370
B.5-2/7-8'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340
B.5-3.5/3-4'	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360
B.5-3.5/7-8'	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390
B-1/3-4'	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350
B-1/8-9'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340
B-2/4-5'	< 390	< 390	< 390	< 390	< 390	< 390	2,000	< 390	< 390	2,000
B-2/8-9'	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360
C.5-1.5/3-4'	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350
C.5-1.5/8-9'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340
C.5-2.5/3-4'	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360
C.5-2.5/7-8'	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350
C-1/4-5'	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360
C-1/7-8'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340
C-2.5/10-11'	< 440	< 440	< 440	< 440	< 440	< 440	< 440	< 440	< 440	< 440
C-2.5/2-4'	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380
C-2.5/8-9'	< 470	< 470	< 470	< 470	< 470	< 470	< 470	< 470	< 470	< 470
C-2/3-4'	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390
C-2/7-8'	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
C-3/3-4'	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350
C-3/8-9'	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370
D.5-1.5/3-4'	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370
D.5-1.5/7-8'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340
D-1/2-3'	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370
D-1/6-7'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340
D-2/3-4'	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370
D-2/7-8'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340
D-3/3-4'	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370
D-3/9-10'	< 410	< 410	< 410	< 410	< 410	< 410	< 410	< 410	< 410	< 410
E.5-1.5/2-3'	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360
E.5-1.5/2-3'	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370
E.5-1.5/6-7'	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
E.5-2.5/3-4'	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370
E.5-2.5/6-7'	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350
E-1/4-5'	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350
E-1/7-8'	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
E-2/3-4'	< 460	< 460	< 460	< 460	< 460	< 460	< 460	< 460	< 460	< 460
E-2/7-8'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340
E-3/4-5'	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380
E-3/7-8'	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360
F.5-2.5/2-3'	< 380	< 380	< 380	< 380	< 380	620	< 380	< 380	< 380	620
F-1/3-4'	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360
F-1/9-10'	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360

Sample Designation and Depth (fbg)	PCB Aroclor Concentrations (ug/kg)									
	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	PCB-1262	PCB-1268	Total PCBs
F-2.5/2-3'	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350
F-2.5/8-9'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340
F-2/3-4'	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370
F-2/8-9'	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350
G- .5/2-3'	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380
G- .5/7-8'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340
G.5-1.5/3-4'	< 370	< 370	< 370	< 370	< 370	410	< 370	< 370	< 370	410
G.5-1.5/8-9'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 341
G-1/4-5'	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390
G-1/9-10'	< 370	< 370	< 370	1,700	< 370	< 370	< 370	< 370	< 370	1,700
G-2/2-3'	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360
G-2/7-8'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340
H.5-1.5/2-3'	< 360	< 360	< 360	< 360	< 360	900	< 360	< 360	< 360	900
H.5-1.5/7-8'	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
H.5-2.5/2-3'	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360
H.5-2.5/7-8'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340
H-1.5/2-3'	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350
H-1.5/7-8'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340
H-1/4-5'	< 380	< 380	< 380	< 380	< 380	600	< 380	< 380	< 380	600
H-1/8-9'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340
H-2.5/1-2'	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380
H-2.5/7-8'	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
H-2/2-3'	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360
H-2/7-8'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340
I.5-1.5/3-4'	< 360	< 360	< 360	< 360	< 360	540	< 360	< 360	< 360	540
I.5-1.5/8-9'	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400
I.5-1.500/3-4'	< 370	< 370	< 370	< 370	< 370	550	< 370	< 370	< 370	550
I-1/2-3'	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400
I-1/7-8'	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380
I-2.5/2-3'	< 390	< 390	< 390	< 390	*	2,000	< 390	< 390	< 390	2,000
I-2.5/7-8'	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 331
I-2/2-3'	< 380	< 380	< 380	< 380	< 380	780	< 380	< 380	< 380	780
I-2/7-8'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 341
J-1/2-3'	< 350	< 350	< 350	< 350	< 350	720	< 350	< 350	< 350	720
J-1/7-8'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 341
J-100/2-3'	< 370	< 370	< 370	< 370	< 370	430	< 370	< 370	< 370	430
J-2.5/2-3'	< 530	< 530	< 530	< 530	*	4,800	< 530	< 530	< 530	4,800
J-2.5/5-6'	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400
J-2.5/8-9'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340
J-2/3-4'	< 470	< 470	< 470	< 470	< 470	3,300	< 470	< 470	< 470	3,300
J-2/7-8'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 341
K-1/4-5'	< 380	< 380	< 380	< 380	< 380	780	< 380	< 380	< 380	780
K-1/7-8'	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	3,000	3,000
K-2.5/2-3'	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360
K-2.5/7-8'	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
K-2.500/2-3'	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370
K-2/4-5'	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390
K-2/7-8'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340
K-200/4-5'	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380
L- .5/2-3'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340
L- .5/7-8'	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360
L-1/2-3'	< 390	< 390	< 390	< 390	< 390	610	< 390	< 390	< 390	610
L-1/7-8'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340
L-2/4-5'	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360
L-2/8-9'	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360

Sample Designation and Depth (fbg)	PCB Aroclor Concentrations (ug/kg)									
	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	PCB-1262	PCB-1268	Total PCBs
Quality Assurance/Quality Control (QA/QC) Duplicates										
A-100/2-3'	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370
B-5-2.500/7-8'	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400	< 400
D.5-1.500/3-4'	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370
D-200/3-4'	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380
E-200/3-4'	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380
G-.500/2-3'	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360
H-200/2-3'	< 360	< 360	< 360	< 360	< 360	400	< 360	< 360	< 360	400

Legend:

- PCBs Detected > 1,000 ug/kg
- Laboratory Detection
- <360 Not Detected to Detection Limit
- * = See note 3

Residential Direct Exposure Criterion (R-DEC) for PCBs = 1,000 ug/kg

Industrial/ Commercial Direct Exposure Criterion (I/C-DEC) for PCBs = 100,000 ug/kg

Notes:

1. Samples were obtained by Down to Earth on 4/20,22, and 23/2020 and analyzed by Phoenix Environmental Laboratories of Manchester, CT.
2. The Remedial Standards were obtained from Regulations for Connecticut Agencies section 22a-133k-2.
3. The analytical laboratory reported that per section 11.9.3 of SW846 method 8082, when multiple Aroclors of PCBs are present and the Aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the Aroclor it most closely resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254. The PCB is quantitated as a timed group and is reported as the Aroclor 1254.
4. Samples obtained for QA/QC were provided with a hundred-series sample designation (e.g. A-1/2-3' was duplicated as A-100/2-3').

TABLE 2
SUMMARY OF PCB ANALYSIS OF SOILS SAMPLES - AUGUST 2020
FORMAL UNIROYAL PARCEL B
0 MAPLE STREET
NAUGATUCK, CONNECTICUT

Sample Designation and Depth (fbg)	PCB Aroclor Concentrations (ug/kg)									
	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	PCB-1262	PCB-1268	Total PCBs
A1-1/3-4'	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390
A2-1/2-3'	< 420	< 420	< 420	< 420	< 420	1,300	< 420	< 420	< 420	1,300
A2-2/2-3'	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370
A2-3/4-5'	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370	< 370
A2-4/2-3'	< 400	< 400	< 400	< 400	< 400	600	< 400	< 400	< 400	600
A2-4/9-10'	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
A2-5/3-4'	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350
A3-1/2-3'	< 370	< 370	< 370	< 370	< 370	480	< 370	< 370	< 370	480
A3-10/3-4'	< 420	< 420	< 420	< 420	< 420	1,600	< 420	< 420	< 420	1,600
A3-11/3-4'	< 470	< 470	< 470	< 470	< 470	1,300	< 470	< 470	< 470	1,300
A3-12/2-3'	< 360	< 360	< 360	< 360	< 360	590	< 360	< 360	< 360	590
A3-13/2-3'	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350
A3-14/2-3'	< 390	< 390	< 390	< 390	< 390	830	< 390	< 390	< 390	830
A3-15/3-4'	< 360	< 360	< 360	< 360	< 360	2,300	< 360	< 360	< 360	2,300
A3-16/2-3'	< 370	< 370	< 370	< 370	< 370	1,800	< 370	< 370	< 370	1,800
A3-18/4-5'	< 450	< 450	< 450	< 450	< 450	1,000	< 450	< 450	< 450	1,000
A3-2/2-3'	< 430	< 430	< 430	< 430	< 430	750	< 430	< 430	< 430	750
A3-3/2-3'	< 400	< 400	< 400	< 400	< 400	920	< 400	< 400	< 400	920
A3-4/3-4'	< 480	< 480	< 480	< 480	< 480	1,900	< 480	< 480	< 480	1,900
A3-5/4-5'	< 410	< 410	< 410	< 410	< 410	840	< 410	< 410	< 410	840
A3-6/3-4'	< 360	< 360	< 360	< 360	1,600	< 360	< 360	< 360	< 360	1,600
A3-7/2-3'	< 350	< 350	< 350	< 350	< 350	640	< 350	< 350	< 350	640
A3-8/2-3'	< 370	< 370	< 370	< 370	< 370	450	< 370	< 370	< 370	450
A3-9/2-3'	< 390	< 390	< 390	< 390	< 390	830	< 390	< 390	< 390	830
A4-1/3-4'	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360
A4-3/3-4'	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350
A4-4/1-2'	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350
A6-1/3-4'	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380
A6-2/4-5'	< 390	< 390	< 390	< 390	< 390	800	< 390	< 390	< 390	800
A6-3/3-4'	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380
A6-4/4-5'	< 410	< 410	< 410	< 410	< 410	< 410	< 410	< 410	< 410	< 410
A6-5/2-3'	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350
A6-6/3-4'	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360
A6-7/4-5'	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350
A6-8/3-4'	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380
A7-1/4-5'	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380
A7-2/3-4'	< 390	< 390	< 390	< 390	< 390	430	< 390	< 390	< 390	430
A7-2/6-7'	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360
A7-3/2-3'	< 390	< 390	< 390	< 390	< 390	440	< 390	< 390	< 390	440
A7-4/1-2'	< 390	< 390	< 390	< 390	< 390	830	< 390	< 390	< 390	830
A7-5/1-2'	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380	< 380
A7-6/1-2'	< 380	< 380	< 380	< 380	< 380	580	< 380	< 380	< 380	580
A7-6/8-9'	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360
A7-7/4-5'	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390	< 390
A7-8/4-5'	< 390	< 390	< 390	< 390	< 390	580	< 390	< 390	< 390	580
A7-8/8-9'	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340	< 340
Quality Assurance/Quality Control (QA/QC) Duplicates										
A2-3/9-10'	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360	< 360
A2-400/9-10'	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350
A3-300/2-3'	< 460	< 460	< 460	< 460	< 460	670	< 460	< 460	< 460	670
A4-300/2-3'	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350
A6-300/3-4'	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350	< 350
A7-500/1-2'	< 380	< 380	< 380	< 380	< 380	600	< 380	< 380	< 380	600

Legend:

PCBs Detected < 10,000 ug/kg
Laboratory Detection

ND = Not Detected

* = See note 3

Residential Direct Exposure Criterion (R-DEC) = 1,000 ug/kg

Industrial/ Commercial Direct Exposure Criterion (I/C-DEC) = 100,000 ug/kg

Notes:

1. Samples were obtained by Down to Earth on 8/10/2020 and analyzed by Phoenix Environmental Laboratories of Manchester, CT.
2. The Remedial Standards were obtained from Regulations for Connecticut Agencies section 22a-133k-2.
3. The analytical laboratory reported that per section 11.9.3 of SW846 method 8082, when multiple Aroclors of PCBs are present and the Aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the Aroclor it most closely resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254. The PCB is quantitated as a timed group and is reported as the Aroclor 1254.
4. Samples obtained for QA/QC were provided with a hundred-series sample designation (e.g. A4-3/2-3' was duplicated as A4-300/2-3').

TABLE 3
SUMMARY OF ALL PCB ANALYSIS OF SOIL SAMPLES
FORMAL UNIROYAL PARCEL B
0 MAPLE STREET
NAUGATUCK, CONNECTICUT

Area	Sample Designation	Depth (ft)	Total PCBs (ug/kg)	Sample Origin	Date
1	TP-11	0 - 2	150	AKRF	December 2010
1	TP-11	6 - 8	2,700	AKRF	December 2010
1	A1-1/3-4'	3-4	< 390	DTE	August 2020
1	NTP-4	1 - 1.5	930	Nobis	March 2017
1	TP-11E	6 - 7	< 370	Nobis	March 2017
1	TP-11S	6 - 7	< 330	Nobis	March 2017
1	TP-11W	6 - 7	< 360	Nobis	March 2017
2	TP-7	6 - 8	1,130	AKRF	December 2010
2	G-1/9-10'	9-10	1,700	DTE	April 2020
2	A2-1/2-3'	2-3	1,300	DTE	August 2020
2	A2-2/2-3'	2-3	< 370	DTE	August 2020
2	A2-3/4-5'	4-5	< 370	DTE	August 2020
2	A2-3/9-10'	9-10	< 360	DTE	August 2020
2	A2-4/2-3'	2-3	600	DTE	August 2020
2	A2-4/9-10'	9-10	< 330	DTE	August 2020
2	A2-400/9-10'	9-10	< 350	DTE	August 2020
2	A2-5/3-4'	3-4	< 350	DTE	August 2020
2	TP-7E	6 - 7	< 370	Nobis	March 2017
2	TP-7N	6 - 7	840	Nobis	March 2017
2	TP-7S	6 - 7	< 370	Nobis	March 2017
2	TP-7W	6-6.6	< 370	Nobis	March 2017
2	TP-7W	7.4-7.8	< 360	Nobis	March 2017
3	TP-3	2 - 4	700	AKRF	December 2010
3	TP-5	2 - 4	1,500	AKRF	December 2010
3	TP-5	8 - 10	<110	AKRF	December 2010
3	I.5-1.500/3-4'	3-4	550	DTE	April 2020
3	I.5-1.5/3-4'	3-4	540	DTE	April 2020
3	I.5-1.5/8-9'	8-9	< 400	DTE	April 2020
3	I-2/2-3'	2-3	780	DTE	April 2020
3	I-2/7-8'	7-8	< 341	DTE	April 2020
3	I-2.5/2-3'	2-3	2,000	DTE	April 2020
3	I-2.5/7-8'	7-8	< 331	DTE	April 2020
3	J-2/3-4'	3-4	3,300	DTE	April 2020
3	J-2/7-8'	7-8	< 341	DTE	April 2020
3	J-2.5/2-3'	2-3	4,800	DTE	April 2020
3	J-2.5/5-6'	5-6	< 400	DTE	April 2020
3	J-2.5/8-9'	8-9	< 340	DTE	April 2020
3	A3-1/2-3'	2-3	480	DTE	August 2020
3	A3-2/2-3'	2-3	750	DTE	August 2020
3	A3-3/2-3'	2-3	920	DTE	August 2020
3	A3-300/2-3'	2-3	670	DTE	August 2020
3	A3-4/3-4'	3-4	1,900	DTE	August 2020
3	A3-5/4-5'	4-5	840	DTE	August 2020
3	A3-6/3-4'	3-4	1,600	DTE	August 2020
3	A3-7/2-3'	2-3	640	DTE	August 2020
3	A3-8/2-3'	2-3	450	DTE	August 2020
3	A3-9/2-3'	2-3	830	DTE	August 2020

Area	Sample Designation	Depth (ft)	Total PCBs (ug/kg)	Sample Origin	Date
3	A3-10/3-4'	3-4	1,600	DTE	August 2020
3	A3-11/3-4'	3-4	1,300	DTE	August 2020
3	A3-12/2-3'	2-3	590	DTE	August 2020
3	A3-13/2-3'	2-3	< 350	DTE	August 2020
3	A3-14/2-3'	2-3	830	DTE	August 2020
3	A3-15/3-4'	3-4	2,300	DTE	August 2020
3	A3-16/2-3'	2-3	1,800	DTE	August 2020
3	A3-18/4-5'	4-5	1,000	DTE	August 2020
3	NTP-5	1 - 1.5	3,200	Nobis	March 2017
3	NTP-5	5.5 - 6	< 350	Nobis	March 2017
3	TP-5E	3 - 4	< 370	Nobis	March 2017
3	TP-5N	1 - 2	2,600	Nobis	March 2017
3	TP-5N	3 - 4	2,200	Nobis	March 2017
3	TP-5N	4 - 5	< 390	Nobis	March 2017
3	TP-5S	2 - 3	1,100	Nobis	March 2017
3	TP-5W	1 - 2	4,500	Nobis	March 2017
3	TP-5W	3 - 4	< 370	Nobis	March 2017
3	TB16	0-2	ND*	HRP	2002
4	TP-10	4 - 6	<110	AKRF	December 2010
4	TP-6	2 - 4	1,600	AKRF	December 2010
4	H-200/2-3'	2-3	400	DTE	April 2020
4	A4-1/3-4'	3-4	< 360	DTE	August 2020
4	A4-3/3-4'	3-4	< 350	DTE	August 2020
4	A4-300/2-3'	2-3	< 350	DTE	August 2020
4	A4-4/1-2'	1-2	< 350	DTE	August 2020
4	NTP-7	5 - 6	1,700	Nobis	March 2017
4	NTP-7	6.5 - 7.5	< 340	Nobis	March 2017
4	TP-6E	3 - 3.3	830	Nobis	March 2017
4	TP-6N	3 - 4	< 330	Nobis	March 2017
4	TP-6S	3 - 4	< 340	Nobis	March 2017
4	TP-6W	3 - 4	< 330	Nobis	March 2017
4	TB15	5-7	ND*	HRP	2002
5	SB-141	6 - 8	500	AKRF	December 2010
5	SB-142	6 - 8	<110	AKRF	December 2010
5	SB-142	10-12	<140	AKRF	December 2010
5	SB-142	13-15	<160	AKRF	December 2010
5	SB-143	8 - 10	650	AKRF	December 2010
5	TP-15	6 - 8	47,000	AKRF	December 2010
5	TP-8	4 - 6	580	AKRF	December 2010
5	B.5-2/4-5'	4-5	< 370	DTE	April 2020
5	B.5-2/7-8'	7-8	< 340	DTE	April 2020
5	B.5-2.5/3-4'	3-4	< 510	DTE	April 2020
5	B.5-2.5/7-8'	7-8	< 390	DTE	April 2020
5	B.5-2.500/7-8'	7-8	< 400	DTE	April 2020
5	B.5-2.5/13-14'	13-14	< 530	DTE	April 2020
5	C-2/3-4'	3-4	< 390	DTE	April 2020
5	C-2/7-8'	7-8	< 330	DTE	April 2020
5	C-2.5/2-4'	2-4	< 380	DTE	April 2020
5	C-2.5/8-9'	8-9	< 470	DTE	April 2020
5	C-2.5/10-11'	10-11	< 440	DTE	April 2020
5	C-3/3-4'	3-4	< 350	DTE	April 2020
5	C-3/8-9'	8-9	< 370	DTE	April 2020
5	TP-15E	6 - 7	< 470	Nobis	March 2017


Area	Sample Designation	Depth (ft)	Total PCBs (ug/kg)	Sample Origin	Date
5	TP-15E	12-13	< 400	Nobis	March 2017
5	TP-15N	6 - 7	< 430	Nobis	March 2017
5	TP-15N	11-12	< 460	Nobis	March 2017
5	TP-15S	6.6-7.4	< 370	Nobis	March 2017
5	TP-15S	12-12.6	< 470	Nobis	March 2017
5	TP-15W	6 - 7	< 350	Nobis	March 2017
5	TP-15W	12-13	< 370	Nobis	March 2017
6	SB-148	9-11	<140	AKRF	December 2010
6	SB-148	13-15	<150	AKRF	December 2010
6	B-2/4-5'	4-5	2,000	DTE	April 2020
6	A6-1/3-4'	3-4	< 380	DTE	August 2020
6	A6-2/4-5'	4-5	800	DTE	August 2020
6	A6-3/3-4'	3-4	< 380	DTE	August 2020
6	A6-300/3-4'	3-4	< 350	DTE	August 2020
6	A6-4/4-5'	4-5	< 410	DTE	August 2020
6	A6-5/2-3'	2-3	< 350	DTE	August 2020
6	A6-6/3-4'	3-4	< 360	DTE	August 2020
6	A6-7/4-5'	4-5	< 350	DTE	August 2020
6	A6-8/3-4'	3-4	< 380	DTE	August 2020
7	K-1/4-5'	4-5	780	DTE	April 2020
7	K-1/7-8'	7-8	3,000	DTE	April 2020
7	A7-1/4-5'	4-5	< 380	DTE	August 2020
7	A7-2/3-4'	3-4	430	DTE	August 2020
7	A7-2/6-7'	6-7	< 360	DTE	August 2020
7	A7-3/2-3'	2-3	440	DTE	August 2020
7	A7-4/1-2'	1-2	830	DTE	August 2020
7	A7-5/1-2'	1-2	< 380	DTE	August 2020
7	A7-500/1-2'	1-2	600	DTE	August 2020
7	A7-6/1-2'	1-2	580	DTE	August 2020
7	A7-6/8-9'	8-9	< 360	DTE	August 2020
7	A7-7/4-5'	4-5	< 390	DTE	August 2020
7	A7-8/4-5'	4-5	580	DTE	August 2020
7	A7-8/8-9'	8-9	< 340	DTE	August 2020
Non-Detects At Miscellaneous Locations					
NA	SB-136	1 - 3	<110	AKRF	December 2010
NA	SB-138	6-8	<140	AKRF	December 2010
NA	SB-138	12-14	<130	AKRF	December 2010
NA	SB-139	6 - 8	<120	AKRF	December 2010
NA	SB-145	7 - 9	<130	AKRF	December 2010
NA	SB-146	2 - 4	<110	AKRF	December 2010
NA	SB-147	13 - 15	<140	AKRF	December 2010
NA	SB-149	6-8	<120	AKRF	December 2010
NA	SB-149	12-14	<130	AKRF	December 2010
NA	TP-12	6 - 8	540	AKRF	December 2010
NA	TP-13	2 - 4	670	AKRF	December 2010
NA	TP-14	0 - 2	230	AKRF	December 2010
NA	TP-14	7 - 9	<100	AKRF	December 2010
NA	TP-14B	7 - 9	<100	AKRF	December 2010
NA	TP-16	4 - 6	<110	AKRF	December 2010
NA	TP-1	2-4	<110	AKRF	December 2010
NA	TP-3A	10 - 12	<110	AKRF	December 2010
NA	TP-4	0 - 2	980	AKRF	December 2010
NA	TP-4	6 - 8	200	AKRF	December 2010


Area	Sample Designation	Depth (ft)	Total PCBs (ug/kg)	Sample Origin	Date
NA	TP-9	7 - 9	<100	AKRF	December 2010
NA	A-1/2-3'	2-3	< 360	DTE	April 2020
NA	A-1/7-8'	7-8	< 370	DTE	April 2020
NA	A-100/2-3'	2-3	< 370	DTE	April 2020
NA	A-2/3-4'	3-4	< 390	DTE	April 2020
NA	A-2/8-9'	8-9	< 390	DTE	April 2020
NA	B-1/3-4'	3-4	< 350	DTE	April 2020
NA	B-1/8-9'	8-9	< 340	DTE	April 2020
NA	B-2/8-9'	8-9	< 360	DTE	April 2020
NA	B.5-3.5/3-4'	3-4	< 360	DTE	April 2020
NA	B.5-3.5/7-8'	7-8	< 390	DTE	April 2020
NA	C-1/4-5'	4-5	< 360	DTE	April 2020
NA	C-1/7-8'	7-8	< 340	DTE	April 2020
NA	C.5-1.5/3-4'	3-4	< 350	DTE	April 2020
NA	C.5-1.5/8-9'	8-9	< 340	DTE	April 2020
NA	C.5-2.5/3-4'	3-4	< 360	DTE	April 2020
NA	C.5-2.5/7-8'	7-8	< 350	DTE	April 2020
NA	D.5-1.500/3-4'	3-4	< 370	DTE	April 2020
NA	D.5-1.5/3-4'	3-4	< 370	DTE	April 2020
NA	D.5-1.5/7-8'	7-8	< 340	DTE	April 2020
NA	D-1/2-3'	2-3	< 370	DTE	April 2020
NA	D-1/6-7'	6-7	< 340	DTE	April 2020
NA	D-2/3-4'	3-4	< 370	DTE	April 2020
NA	D-200/3-4'	3-4	< 380	DTE	April 2020
NA	D-2/7-8'	7-8	< 340	DTE	April 2020
NA	D-3/3-4'	3-4	< 370	DTE	April 2020
NA	D-3/9-10'	9-10	< 410	DTE	April 2020
NA	E.5-1.5/2-3'	2-3	< 360	DTE	April 2020
NA	E.5-1.5/2-3'	2-3	< 370	DTE	April 2020
NA	E.5-1.5/6-7'	6-7	< 330	DTE	April 2020
NA	E.5-2.5/3-4'	3-4	< 370	DTE	April 2020
NA	E.5-2.5/6-7'	6-7	< 350	DTE	April 2020
NA	E-1/4-5'	4-5	< 350	DTE	April 2020
NA	E-1/7-8'	7-8	< 330	DTE	April 2020
NA	E-2/3-4'	3-4	< 460	DTE	April 2020
NA	E-200/3-4'	3-4	< 380	DTE	April 2020
NA	E-2/7-8'	7-8	< 340	DTE	April 2020
NA	E-3/4-5'	4-5	< 380	DTE	April 2020
NA	E-3/7-8'	7-8	< 360	DTE	April 2020
NA	F.5-2.5/2-3'	2-3	620	DTE	April 2020
NA	F-1/3-4'	3-4	< 360	DTE	April 2020
NA	F-1/9-10'	9-10	< 360	DTE	April 2020
NA	F-2/3-4'	3-4	< 370	DTE	April 2020
NA	F-2/8-9'	8-9	< 350	DTE	April 2020
NA	F-2.5/2-3'	2-3	< 350	DTE	April 2020
NA	F-2.5/8-9'	8-9	< 340	DTE	April 2020
NA	G- .5/2-3'	2-3	< 380	DTE	April 2020
NA	G-.500/2-3'	2-3	< 360	DTE	April 2020
NA	G- .5/7-8'	7-8	< 340	DTE	April 2020
NA	G-1/4-5'	4-5	< 390	DTE	April 2020
NA	G-2/2-3'	2-3	< 360	DTE	April 2020
NA	G-2/7-8'	7-8	< 340	DTE	April 2020
NA	G.5-1.5/3-4'	3-4	410	DTE	April 2020


Area	Sample Designation	Depth (ft)	Total PCBs (ug/kg)	Sample Origin	Date
NA	G.5-1.5/8-9'	8-9	< 340	DTE	April 2020
NA	H.5-1.5/2-3'	2-3	900	DTE	April 2020
NA	H.5-1.5/7-8'	7-8	< 330	DTE	April 2020
NA	H.5-2.5/2-3'	2-3	< 360	DTE	April 2020
NA	H.5-2.5/7-8'	7-8	< 340	DTE	April 2020
NA	H-1/4-5'	4-5	600	DTE	April 2020
NA	H-1/8-9'	8-9	< 340	DTE	April 2020
NA	H-1.5/2-3'	2-3	< 350	DTE	April 2020
NA	H-1.5/7-8'	7-8	< 340	DTE	April 2020
NA	H-2/2-3'	2-3	< 360	DTE	April 2020
NA	H-2/7-8'	7-8	< 340	DTE	April 2020
NA	H-2.5/1-2'	1-2	< 380	DTE	April 2020
NA	H-2.5/7-8'	7-8	< 330	DTE	April 2020
NA	I-1/2-3'	2-3	< 400	DTE	April 2020
NA	I-1/7-8'	7-8	< 380	DTE	April 2020
NA	J-100/2-3'	2-3	430	DTE	April 2020
NA	J-1/2-3'	2-3	720	DTE	April 2020
NA	J-1/7-8'	7-8	< 341	DTE	April 2020
NA	K-200/4-5'	4-5	< 380	DTE	April 2020
NA	K-2/4-5'	4-5	< 390	DTE	April 2020
NA	K-2/7-8'	7-8	< 340	DTE	April 2020
NA	K-2.500/2-3'	2-3	< 370	DTE	April 2020
NA	K-2.5/2-3'	2-3	< 360	DTE	April 2020
NA	K-2.5/7-8'	7-8	< 330	DTE	April 2020
NA	L-.5/2-3'	2-3	< 340	DTE	April 2020
NA	L-.5/7-8'	7-8	< 360	DTE	April 2020
NA	L-1/2-3'	2-3	610	DTE	April 2020
NA	L-1/7-8'	7-8	< 340	DTE	April 2020
NA	L-2/4-5'	4-5	< 360	DTE	April 2020
NA	L-2/8-9'	8-9	< 360	DTE	April 2020
NA	NMW-3	5 - 7	< 370	Nobis	March 2017
NA	NMW-4	1.5 - 3.5	< 350	Nobis	March 2017
NA	NMW-5	1 - 3	< 340	Nobis	March 2017
NA	NMW-7	1 - 3	< 360	Nobis	March 2017
NA	NTP-12	6-7	< 370	Nobis	March 2017
NA	NTP-12	7	< 540	Nobis	March 2017
NA	NTP-15	3 - 4	< 370	Nobis	March 2017
NA	NTP-17	1 - 1.5	< 330	Nobis	March 2017
NA	NTP-18	3 - 5	< 400	Nobis	March 2017
NA	NTP-19	3 - 4	< 540	Nobis	March 2017
NA	NTP-2	2 - 4	< 380	Nobis	March 2017
NA	NTP-20	6.5 - 8.5	1000	Nobis	March 2017
NA	NTP-21	1.5 - 3.5	< 490	Nobis	March 2017
NA	B-3	0-4	ND*	GCI	2001
NA	B-5	0-4	ND*	GCI	2001
NA	B-7	0-4	ND*	GCI	2001
NA	B-12	0-4	ND*	GCI	2001
NA	TB1	0-2	ND*	HRP	2002
NA	TB2	2-4	ND*	HRP	2002
NA	TB3	0-2	ND*	HRP	2002
NA	TB4	2-4	ND*	HRP	2002
NA	TB4	5-7	ND*	HRP	2002
NA	TB6	2-4	ND*	HRP	2002

Area	Sample Designation	Depth (ft)	Total PCBs (ug/kg)	Sample Origin	Date
NA	TB7	0-2	ND*	HRP	2002
NA	TB9	5-7	ND*	HRP	2002
NA	TB9	10-12	ND*	HRP	2002
NA	TB10	5-7	ND*	HRP	2002
NA	TB11	0-2	ND*	HRP	2002
NA	TB12	0-1	ND*	HRP	2002
NA	TB13	5-7	ND*	HRP	2002
NA	TB14	0-2	ND*	HRP	2002
NA	TB17	5-7	ND*	HRP	2002
NA	TB18	2-4	ND*	HRP	2002
NA	TB19	2-4	ND*	HRP	2002
NA	TB21	2-4	ND*	HRP	2002

Legend:

PCBs Detected > 10,000 ug/kg 

PCBs Detected < 10,000 ug/kg 

PCB Detection < 1,000 ug/kg 

ND = Not Detected

*** = See Note 3




Notes:

1. Samples were obtained by Down to Earth, AKRF, HRP, GCI, and Nobis.
2. The Remedial Standards were obtained from Regulations for Connecticut Agencies section 22a-133k-2.
3. The analytical laboratory reported that per section 11.9.3 of SW846 method 8082, when multiple Aroclors of PCBs are present and the Aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the Aroclor it most closely resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254. The PCB is quantitated as a timed group and is reported as the Aroclor 1254.
4. Samples obtained by DTE for QA/QC purposes were provided with a hundred-series sample designation (e.g. A4-3/2-3' was duplicated as A4-300/2-3').
5. HRP data were referenced in AKRF's "Phase II/III Environmental Site Assessment and Remedial Action Plan". Detection limits were not identified in the report.

**TABLE 4
SUMMARY OF PCB ANALYSIS NEAR AREA 5
FORMAL UNIROYAL PARCEL B
0 MAPLE STREET
NAUGATUCK, CONNECTICUT**

Area	Sample Designation	Depth (ft)	Total PCBs (ug/kg)	Sample Origin	Date
5	SB-141	6 - 8	500	AKRF	December 2010
5	SB-142	6 - 8	<110	AKRF	December 2010
5	SB-142	10-12	<140	AKRF	December 2010
5	SB-142	13-15	<160	AKRF	December 2010
5	SB-143	8 - 10	650	AKRF	December 2010
5	TP-15	6 - 8	47,000	AKRF	December 2010
5	TP-8	4 - 6	580	AKRF	December 2010
5	B.5-2/4-5'	4-5	< 370	DTE	April 2020
5	B.5-2/7-8'	7-8	< 340	DTE	April 2020
5	B.5-2.5/3-4'	3-4	< 510	DTE	April 2020
5	B.5-2.5/7-8'	7-8	< 390	DTE	April 2020
5	B.5-2.500/7-8'	7-8	< 400	DTE	April 2020
5	B.5-2.5/13-14'	13-14	< 530	DTE	April 2020
5	C-2/3-4'	3-4	< 390	DTE	April 2020
5	C-2/7-8'	7-8	< 330	DTE	April 2020
5	C-2.5/2-4'	2-4	< 380	DTE	April 2020
5	C-2.5/8-9'	8-9	< 470	DTE	April 2020
5	C-2.5/10-11'	10-11	< 440	DTE	April 2020
5	C-3/3-4'	3-4	< 350	DTE	April 2020
5	C-3/8-9'	8-9	< 370	DTE	April 2020
5	TP-15E	6 - 7	< 470	Nobis	March 2017
5	TP-15E	12-13	< 400	Nobis	March 2017
5	TP-15N	6 - 7	< 430	Nobis	March 2017
5	TP-15N	11-12	< 460	Nobis	March 2017
5	TP-15S	6.6-7.4	< 370	Nobis	March 2017
5	TP-15S	12-12.6	< 470	Nobis	March 2017
5	TP-15W	6 - 7	< 350	Nobis	March 2017
5	TP-15W	12-13	< 370	Nobis	March 2017

Legend:

PCBs Detected > 10,000 ug/kg 
PCBs Detected < 10,000 ug/kg 
PCB Detection < 1,000 ug/kg 
ND = Not Detected

Notes:

1. Samples were obtained by Down to Earth, AKRF and Nobis.
2. The Remedial Standards were obtained from Regulations for Connecticut Agencies section 22a-133k-2.
3. The analytical laboratory reported that per section 11.9.3 of SW846 method 8082, when multiple Aroclors of PCBs are present and the Aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the Aroclor it most closely resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254. The PCB is quantitated as a timed group and is reported as the Aroclor 1254.
4. Samples obtained by DTE for QA/QC purposes were provided with a hundred-series sample designation (e.g. A4-3/2-3' was duplicated as A4-300/2-3').
5. HRP data were referenced in AKRF's "Phase II/III Environmental Site Assessment and Remedial Action Plan". Detection limits were not identified in the report.

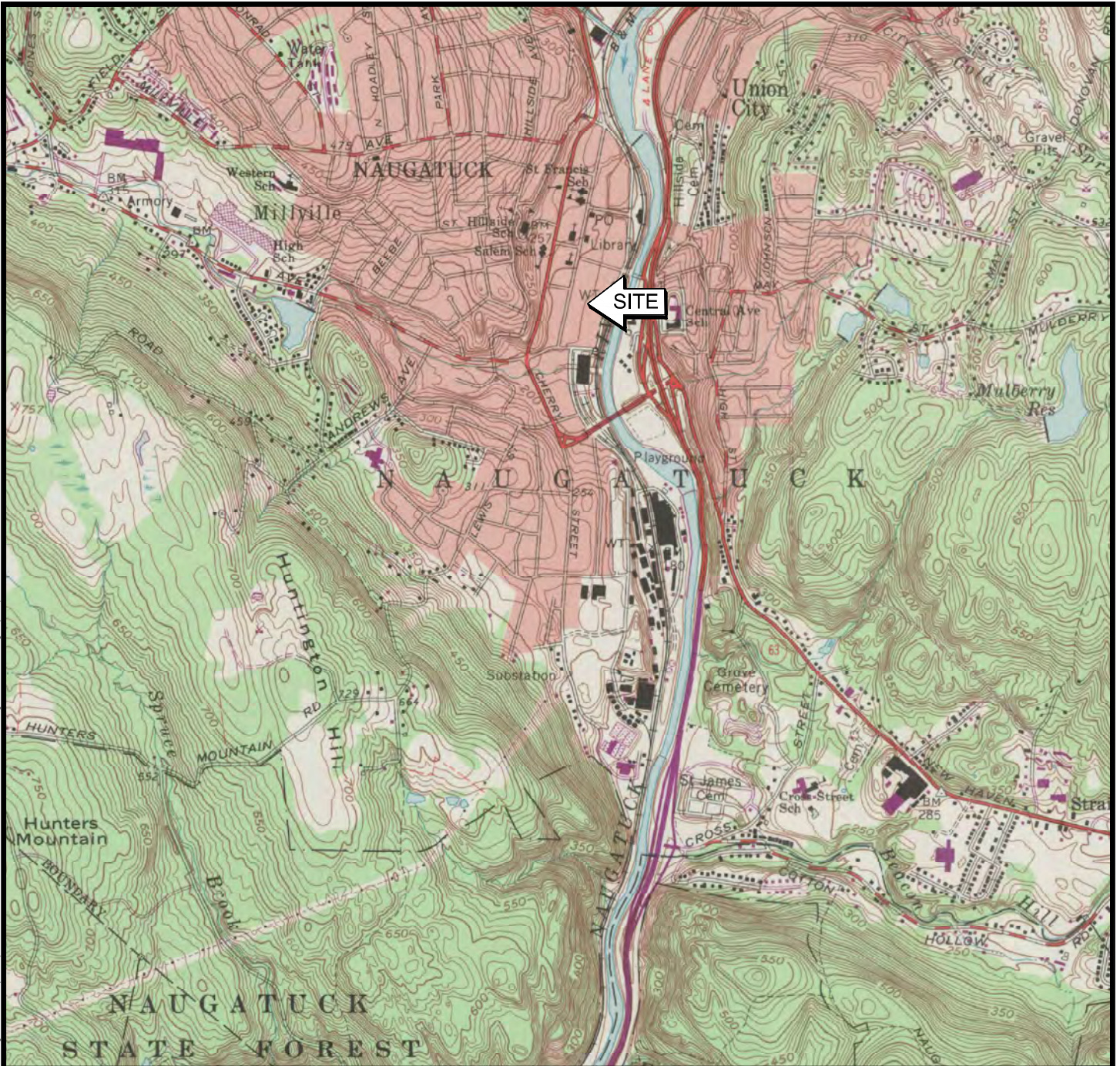
Analyte	Units	Remedial Criteria			Sample Designation, Depth (feet) and Date												QA/QC Trip Blanks			
		I/C-DEC	R-DEC	GB-PMC	A-2/3-4' 4/20/2020	C-2.5/8-9' 4/23/2020	C.5-2.5/3-4' 4/20/2020	E.5-1.5/2-3' 4/23/2020	E-3/4-5' 4/20/2020	F-1/3-4' 4/20/2020	G-1/4-5' 4/20/2020	G-1.5/2-3' 4/22/2020	G-1.5/7-8' 4/22/2020	I-2.5/7-8' 4/23/2020	J-2.5/2-3' 4/23/2020	L-1/7-8' 4/23/2020	B-3 LL 4/23/2020	B-3 HL 4/23/2020	B-1 4/20/2020	TB HL 4/20/2020
Polynuclear Aromatic HC																				
2-Methylnaphthalene	ug/Kg	1,000,000*	270,000*	5,600*	< 5800	< 330	< 260	< 2600	< 270	< 260	< 280	< 2400	< 240	< 240	400	< 240	NT	NT	NT	NT
Acenaphthene	ug/Kg	2,500,000*	1,000,000*	84,000*	< 14000	< 330	< 260	< 2600	< 270	< 260	490	< 2400	< 240	< 240	1,900	< 240	NT	NT	NT	NT
Acenaphthylene	ug/Kg	2,500,000	1,000,000	84,000	< 14000	< 330	310	< 2600	< 270	< 260	< 280	< 2400	< 240	< 240	3,500	< 240	NT	NT	NT	NT
Anthracene	ug/Kg	2,500,000	1,000,000	400,000	< 14000	< 330	510	< 2600	< 270	< 260	1,400	2,800	< 240	< 240	7,100	< 240	NT	NT	NT	NT
Benz(a)anthracene	ug/Kg	7,800	1,000	1,000	< 6500	< 330	1,200	6,400	< 270	420	4,600	9,900	< 240	< 240	30,000	< 240	NT	NT	NT	NT
Benzo(a)pyrene	ug/Kg	1,000	1,000	1,000	< 6300	< 330	1,300	5,900	< 270	370	4,600	8,900	< 240	< 240	32,000	< 240	NT	NT	NT	NT
Benzo(b)fluoranthene	ug/Kg	7,800	1,000	1,000	< 6600	< 330	1,100	5,100	< 270	290	3,900	9,500	< 240	< 240	27,000	< 240	NT	NT	NT	NT
Benzo(ghi)perylene	ug/Kg	78,000*	8,400*	1,000*	< 6300	< 330	990	3,600	< 270	< 260	3,100	5,700	< 240	< 240	17,000	< 240	NT	NT	NT	NT
Benzo(k)fluoranthene	ug/Kg	78,000	8,400	1,000	< 6500	< 330	960	4,800	< 270	280	3,200	7,200	< 240	< 240	23,000	< 240	NT	NT	NT	NT
Chrysene	ug/Kg	780,000*	84,000*	1,000*	< 6500	< 330	1,300	5,700	< 270	430	4,200	10,000	< 240	< 240	28,000	< 240	NT	NT	NT	NT
Dibenz(a,h)anthracene	ug/Kg	1,000*	1,000*	1,000*	< 6300	< 330	< 260	< 1200	< 270	< 260	540	1,400	< 240	< 240	6,700	< 240	NT	NT	NT	NT
Fluoranthene	ug/Kg	2,500,000	1,000,000	56,000	< 14000	< 330	3,000	14,000	< 270	620	8,900	22,000	< 240	< 240	64,000	< 240	NT	NT	NT	NT
Fluorene	ug/Kg	2,500,000	1,000,000	56,000	< 14000	< 330	280	< 2600	< 270	< 260	440	< 2400	< 240	< 240	2,700	< 240	NT	NT	NT	NT
Indeno(1,2,3-cd)pyrene	ug/Kg	7,800*	1,000*	1,000*	< 6500	< 330	960	4,000	< 270	< 260	3,300	5,700	< 240	< 240	20,000	< 240	NT	NT	NT	NT
Naphthalene	ug/Kg	2,500,000	1,000,000	56,000	< 14000	< 330	310	< 2600	< 270	< 260	< 280	< 2400	< 240	< 240	670	< 240	NT	NT	NT	NT
Phenanthrene	ug/Kg	2,500,000	1,000,000	40,000	< 14000	< 330	1,800	9,000	< 270	720	5,600	14,000	< 240	< 240	30,000	< 240	NT	NT	NT	NT
Pyrene	ug/Kg	2,500,000	1,000,000	40,000	< 14000	< 330	2,700	12,000	< 270	860	7,700	21,000	< 240	< 240	57,000	< 240	NT	NT	NT	NT
Extractable Total Petroleum Hydrocarbons (ETPH)																				
Ext. Petroleum H.C. (C9-C36)	mg/Kg	2,500	500	2,500	4,400	< 71	320	1,100	< 58	< 55	< 300	690	< 50	< 50	1,600	< 51	NT	NT	NT	NT
Total Metals																				
Arsenic	mg/Kg	10	10	NA	1.74	6.9	4.23	3.44	1.6	3.41	6.07	3.22	< 0.63	0.92	4.7	0.95	NT	NT	NT	NT
Barium	mg/Kg	140,000	4,700	NA	208	230	354	460	79.2	1,670	269	237	47.7	53.1	1,090	93.9	NT	NT	NT	NT
Cadmium	mg/Kg	1,000	34	NA	0.66	0.81	1.24	2.29	0.73	0.64	1.66	1.76	0.53	0.51	3.43	0.6	NT	NT	NT	NT
Chromium	mg/Kg	NA	NA	NA	20.1	12.2	13.3	11.8	13.1	17.4	23.2	29.9	8.53	10.1	17.7	16.5	NT	NT	NT	NT
Lead	mg/Kg	1,000	400	NA	125	576	232	198	83.9	62.1	149	540	2.4	2.38	1,350	3.1	NT	NT	NT	NT
Mercury	mg/Kg	610	20	NA	2.05	0.65	0.48	0.45	0.09	0.09	0.13	0.77	< 0.03	< 0.03	1.67	< 0.03	NT	NT	NT	NT
Selenium	mg/Kg	10,000	340	NA	< 1.6	< 2.0	< 1.4	< 1.4	< 1.4	< 1.3	< 1.7	< 1.4	< 1.3	< 1.3	< 2.1	< 1.3	NT	NT	NT	NT
Silver	mg/Kg	10,000	340	NA	< 0.40	< 0.50	< 0.35	< 0.36	< 0.35	< 0.33	< 0.42	< 0.35	< 0.31	< 0.33	0.93	< 0.31	NT	NT	NT	NT

Legend:
 Result Detected
 Result Exceeds Criteria
 NT= Not Tested

Notes:
 1. Samples were obtained by Down to Earth and analyzed by Phoenix Environmental Laboratories of Manchester, CT.
 2. The Remedial Standards were obtained from Regulations for Connecticut Agencies section 22a-133k-2. Alternate Polluting Substance Criteria were used, if published by the CTDEEP and are indicated by ***.

FIGURES

- FIGURE 1 LOCUS PLAN
- FIGURE 2 SITE PLAN
- FIGURE 3 ENVIRONMENTAL SETTING
- FIGURE 4 PCB DETECTIONS AND EXCEEDANCES IN SOIL – THROUGH 2017
- FIGURE 5 PCB SAMPLING LOCATIONS - 2020
- FIGURE 6 PCB DETECTIONS & EXCEEDANCES IN SOIL – THROUGH 2020
- FIGURE 6A NORTHERN DETAIL - PCB DETECTIONS AND EXCEEDANCES IN SOIL – THROUGH 2020
- FIGURE 6B SOUTHERN DETAIL - PCB DETECTIONS AND EXCEEDANCES IN SOIL – THROUGH 2020
- FIGURE 7A SUBSURFACE PROFILE VIEW A-A'
- FIGURE 7B SUBSURFACE PROFILE VIEW B-B'
- FIGURE 8 ESTIMATED PCB EXCAVATION EXTENTS



USGS TOPOGRAPHIC MAP

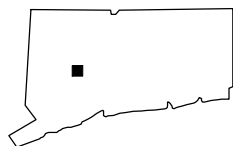
7.5 MINUTE QUADRANGLE:
NAUGATUCK, CT 1984



DOWN TO EARTH CONSULTING, LLC
GEOLOGICAL AND ENVIRONMENTAL ENGINEERING

122 Church Street
Naugatuck, Connecticut 06770

203-683-4155



QUADRANGLE LOCATION

FIGURE 1

**LOCUS PLAN
PARCEL B
MAPLE STREET
NAUGATUCK, CT 06770**

PROJECT NO.

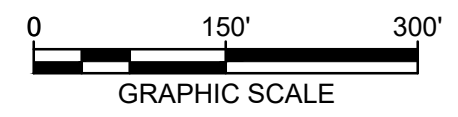

DATE: APRIL 2020

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- NOTES:**
1. THE BASE PLAN WAS BASED ON IMAGING FROM GOOGLE EARTH
 2. LOCATIONS AND SITE FEATURES DEPICTED ARE APPROXIMATE AND GIVEN FOR ILLUSTRATIVE PURPOSES.

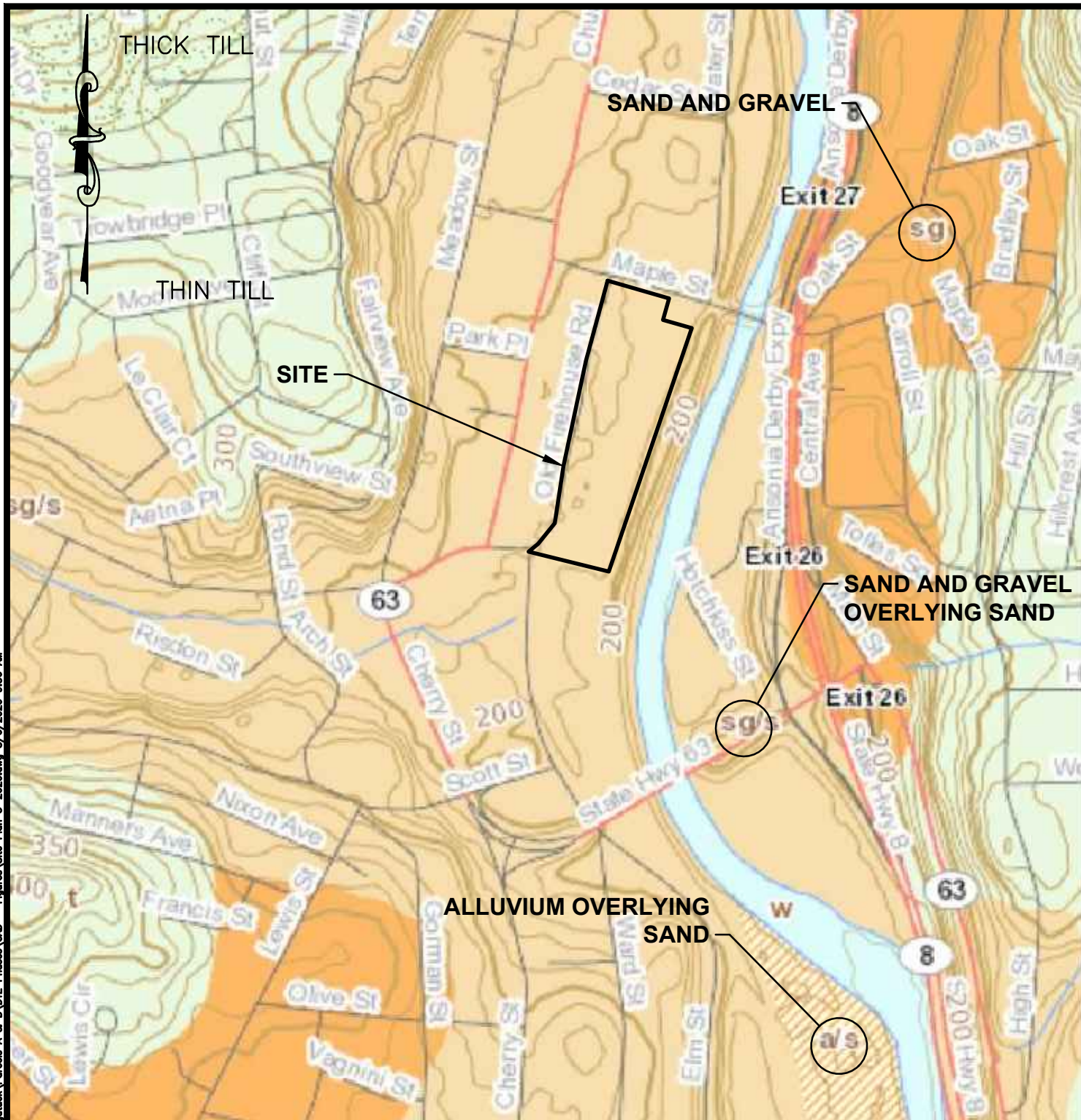
- LEGEND**
- APPROXIMATE PROPERTY LINE
 - ⊕ MW-1 APPROXIMATE EXISTING MONITORING WELL LOCATION (BY OTHERS)
 - ⊕ NMW-1 MONITORING WELL LOCATION OBSERVED BY NOBIS (FEB. 2017)
 - ▨ APPROXIMATE UTILITY EASEMENT

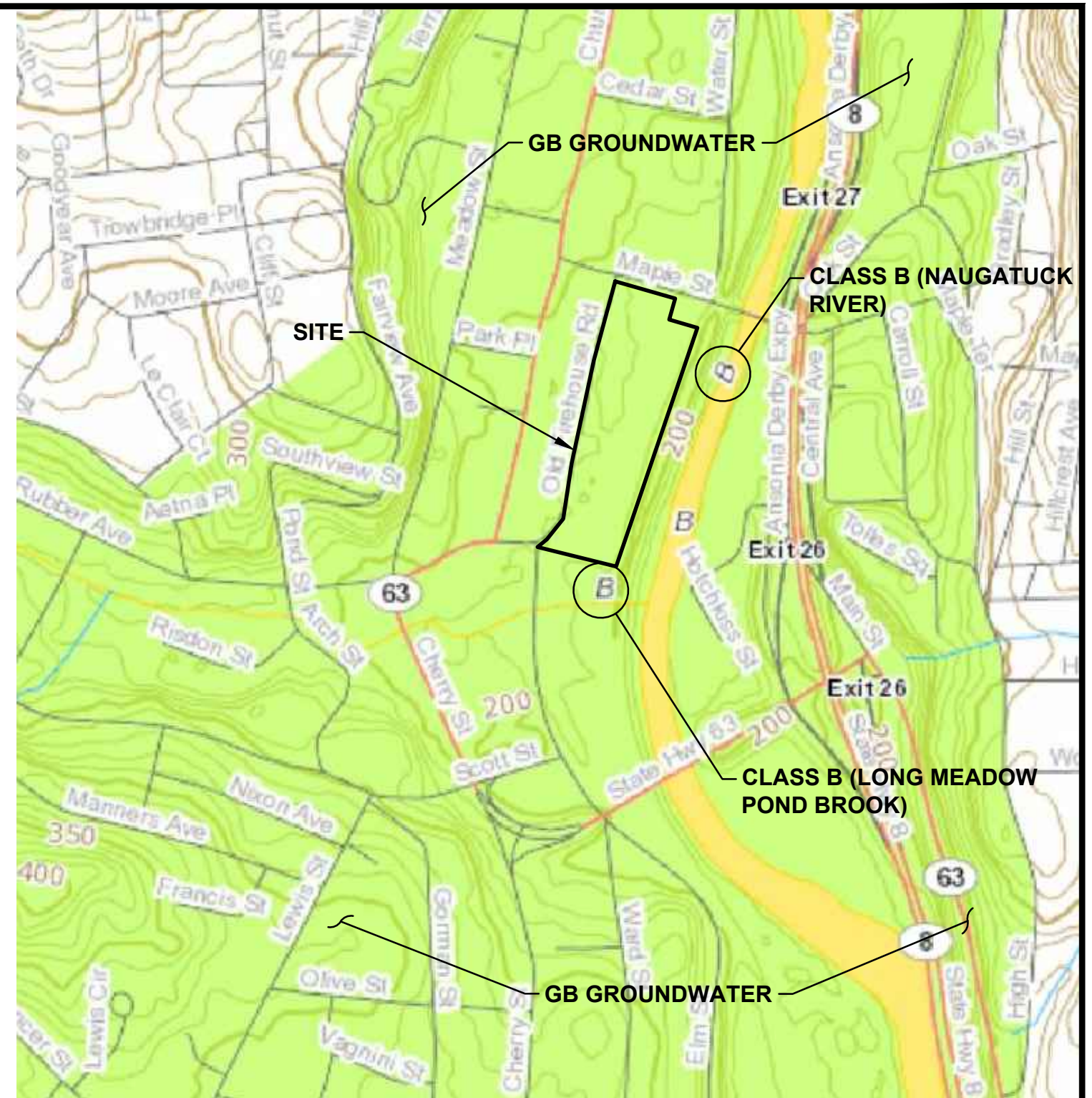
DOWN TO EARTH CONSULTING, LLC
 GEOTECHNICAL AND ENVIRONMENTAL ENGINEERING
 Down To Earth, LLC
 122 Church Street
 Naugatuck, Connecticut 06770

FIGURE 2	
SITE PLAN PARCEL B 0 MAPLE STREET NAUGATUCK, CONNECTICUT	
DRAWN BY: VTI	CHECKED BY: TFC
PROJECT NO.	DATE: JULY 2020

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SURFICIAL GEOLOGY



SURFACE AND GROUNDWATER CLASSIFICATION

NOTES:

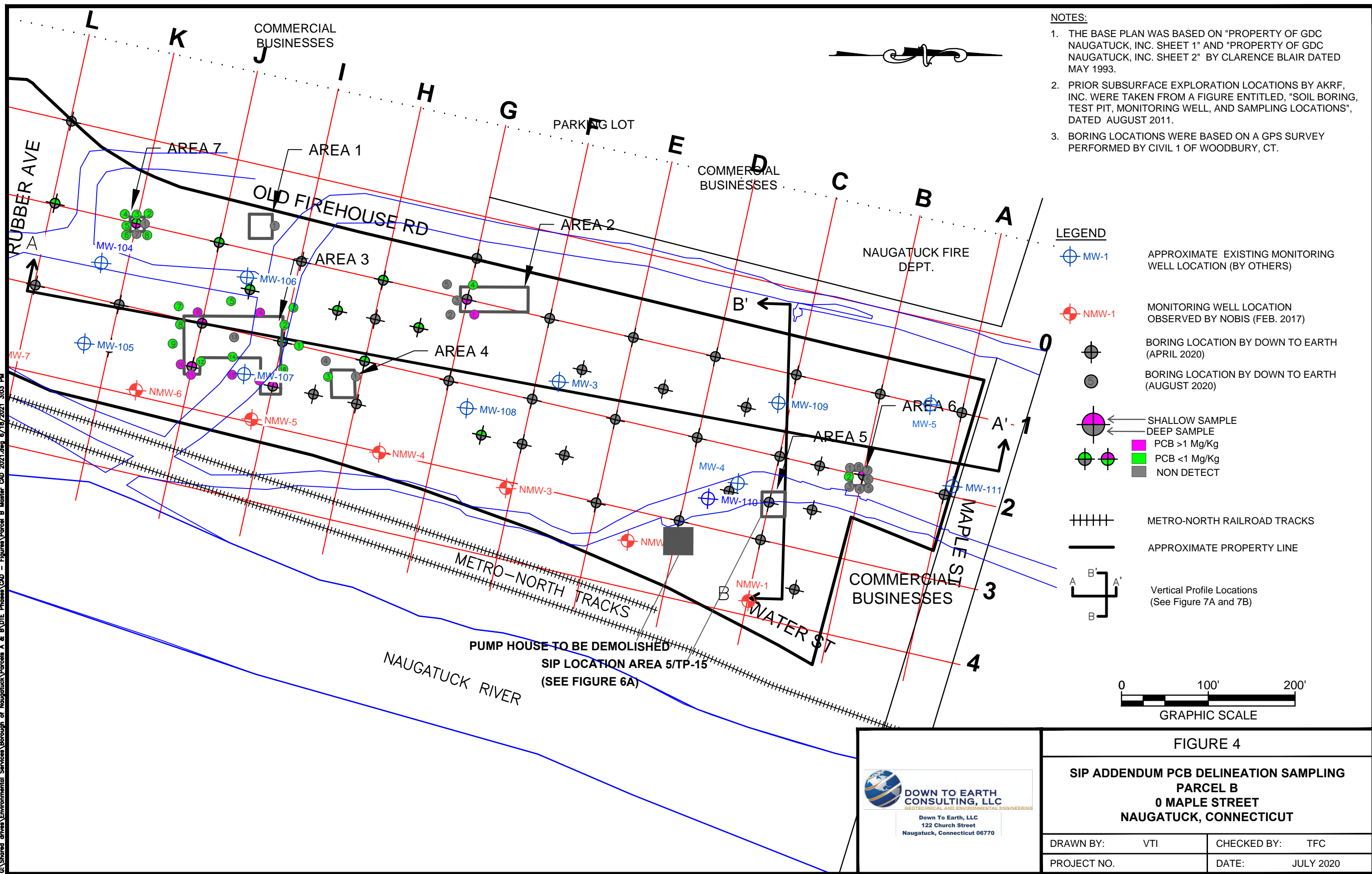
1. ENVIRONMENTAL CONDITIONS PLANS WERE DEVELOPED USING THE CONNECTICUT ENVIRONMENTAL CONDITIONS ONLINE (CTECO) ADVANCED MAP VIEWER WEB-BASED TOOL.
2. SITE DELINEATION DEPICTED IS APPROXIMATE AND GIVEN FOR ILLUSTRATIVE PURPOSES.



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Down To Earth, LLC
122 Church Street
Naugatuck, Connecticut 06770

FIGURE 3	
ENVIRONMENTAL CONDITIONS PLAN	
PARCEL B	
0 MAPLE STREET	
NAUGATUCK, CONNECTICUT	
DRAWN BY: VTI	CHECKED BY: TFC
PROJECT NO.	DATE: JULY 2020

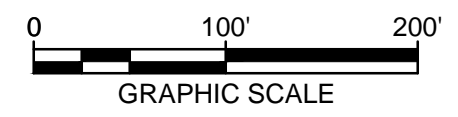
C:\Shared drives\Environmental Services\Borough of Naugatuck\Parcels A & B\DTIE Phases\CAD - Figures\Parcel B Master CAD 2021.dwg 6/18/2021 3:03 PM



- NOTES:**
1. THE BASE PLAN WAS BASED ON "PROPERTY OF GDC NAUGATUCK, INC. SHEET 1" AND "PROPERTY OF GDC NAUGATUCK, INC. SHEET 2" BY CLARENCE BLAIR DATED MAY 1993.
 2. PRIOR SUBSURFACE EXPLORATION LOCATIONS BY AKRF, INC. WERE TAKEN FROM A FIGURE ENTITLED, "SOIL BORING, TEST PIT, MONITORING WELL, AND SAMPLING LOCATIONS", DATED AUGUST 2011.
 3. BORING LOCATIONS WERE BASED ON A GPS SURVEY PERFORMED BY CIVIL 1 OF WOODBURY, CT.

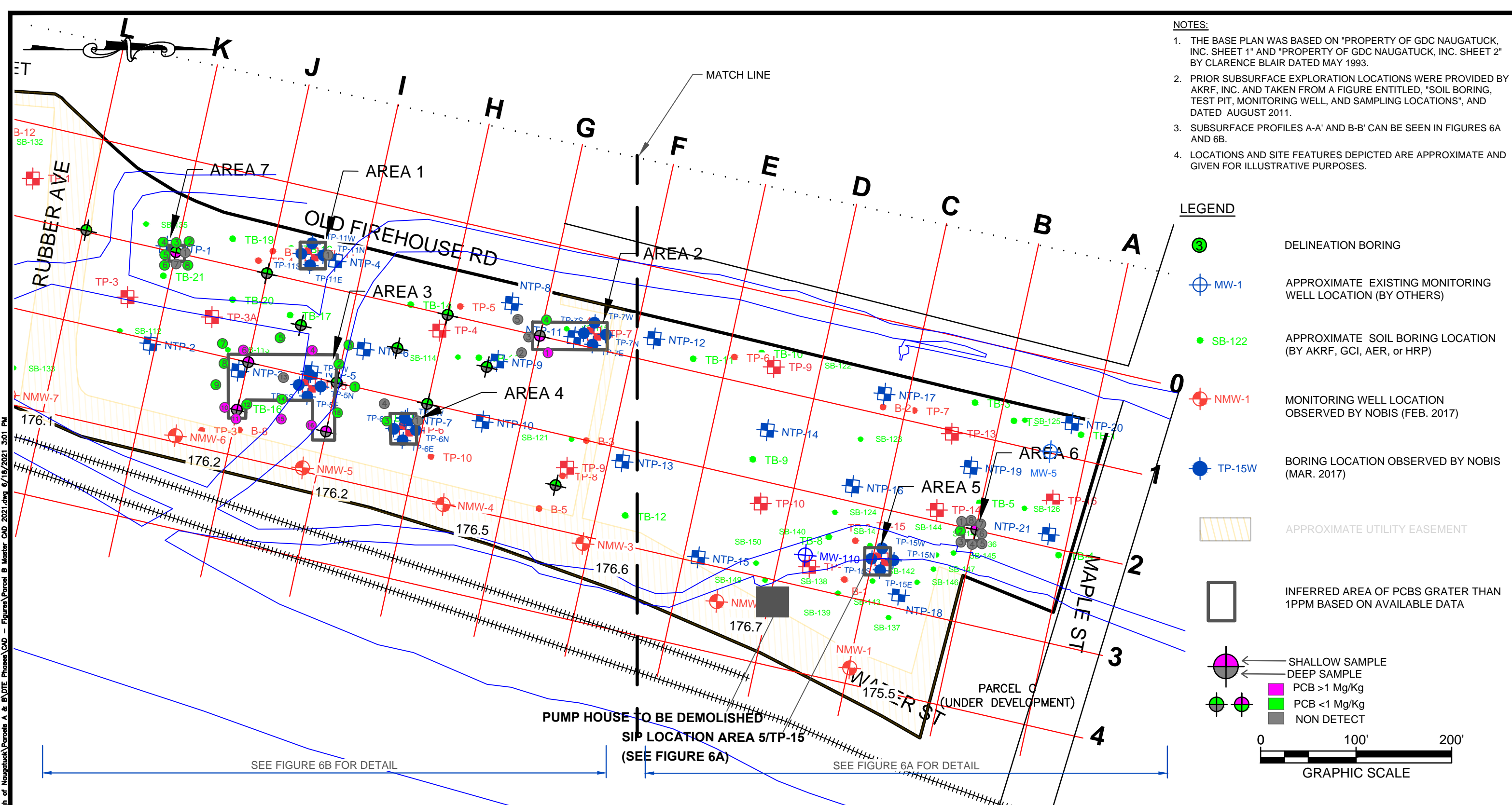
LEGEND

- MW-1 APPROXIMATE EXISTING MONITORING WELL LOCATION (BY OTHERS)
- NMW-1 MONITORING WELL LOCATION OBSERVED BY NOBIS (FEB. 2017)
- BORING LOCATION BY DOWN TO EARTH (APRIL 2020)
- BORING LOCATION BY DOWN TO EARTH (AUGUST 2020)
- SHALLOW SAMPLE
- DEEP SAMPLE
- PCB >1 Mg/Kg
- PCB <1 Mg/Kg
- NON DETECT
- METRO-NORTH RAILROAD TRACKS
- APPROXIMATE PROPERTY LINE
- Vertical Profile Locations (See Figure 7A and 7B)



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GEOTECHNICAL AND ENVIRONMENTAL ENGINEERING
 Down To Earth, LLC
 122 Church Street
 Naugatuck, Connecticut 06770

FIGURE 4	
SIP ADDENDUM PCB DELINEATION SAMPLING PARCEL B 0 MAPLE STREET NAUGATUCK, CONNECTICUT	
DRAWN BY: VTI	CHECKED BY: TFC
PROJECT NO.	DATE: JULY 2020



- NOTES:**
1. THE BASE PLAN WAS BASED ON "PROPERTY OF GDC NAUGATUCK, INC. SHEET 1" AND "PROPERTY OF GDC NAUGATUCK, INC. SHEET 2" BY CLARENCE BLAIR DATED MAY 1993.
 2. PRIOR SUBSURFACE EXPLORATION LOCATIONS WERE PROVIDED BY AKRF, INC. AND TAKEN FROM A FIGURE ENTITLED, "SOIL BORING, TEST PIT, MONITORING WELL, AND SAMPLING LOCATIONS", AND DATED AUGUST 2011.
 3. SUBSURFACE PROFILES A-A' AND B-B' CAN BE SEEN IN FIGURES 6A AND 6B.
 4. LOCATIONS AND SITE FEATURES DEPICTED ARE APPROXIMATE AND GIVEN FOR ILLUSTRATIVE PURPOSES.

LEGEND

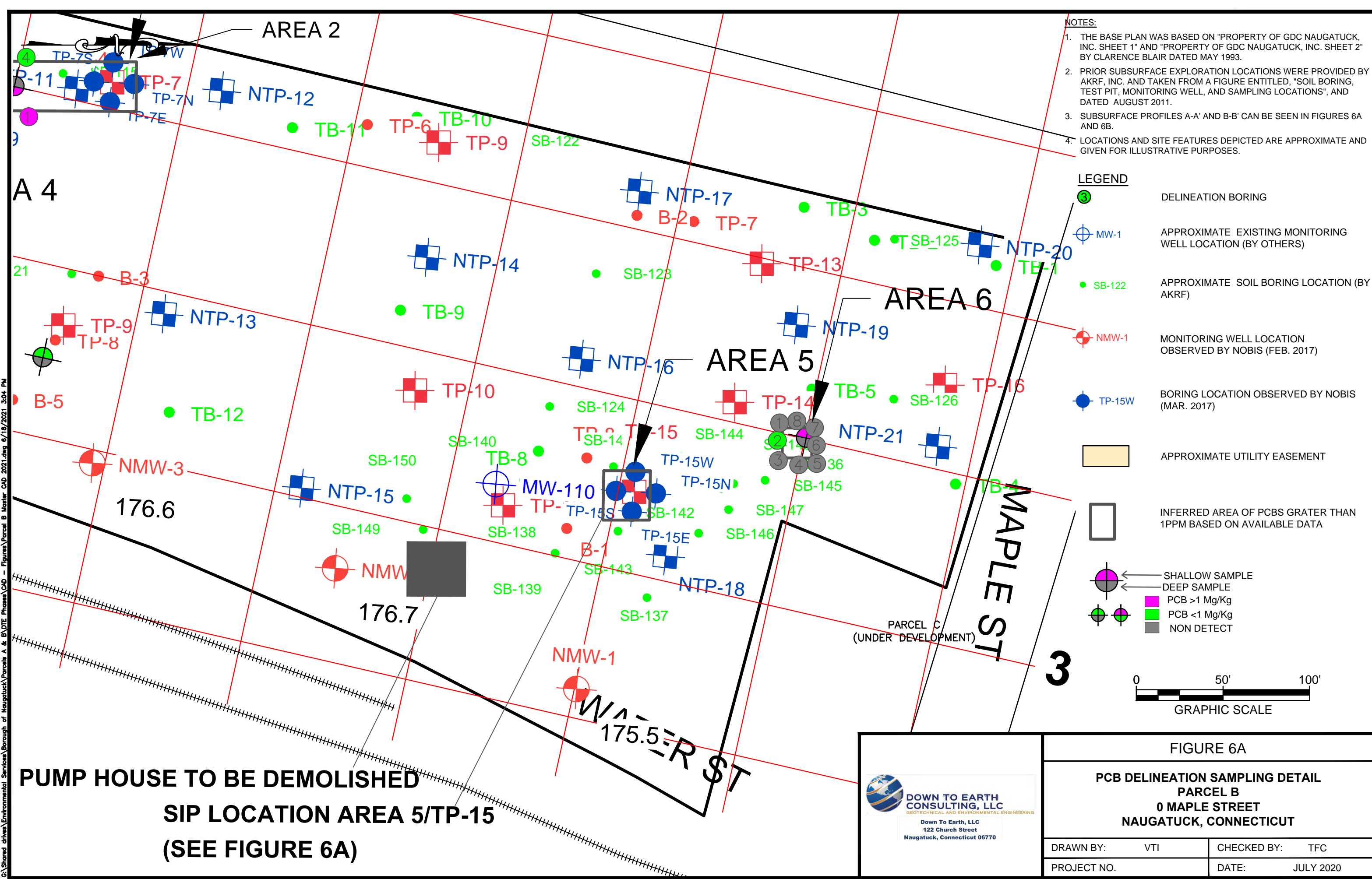
- DELINEATION BORING
- APPROXIMATE EXISTING MONITORING WELL LOCATION (BY OTHERS)
- APPROXIMATE SOIL BORING LOCATION (BY AKRF, GCI, AER, or HRP)
- MONITORING WELL LOCATION OBSERVED BY NOBIS (FEB. 2017)
- BORING LOCATION OBSERVED BY NOBIS (MAR. 2017)
- APPROXIMATE UTILITY EASEMENT
- INFERRED AREA OF PCBs GRATER THAN 1PPM BASED ON AVAILABLE DATA
- SHALLOW SAMPLE
- DEEP SAMPLE
- PCB >1 Mg/Kg
- PCB <1 Mg/Kg
- NON DETECT

0 100' 200'
GRAPHIC SCALE

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DOWN TO EARTH CONSULTING, LLC
 GEOTECHNICAL AND ENVIRONMENTAL ENGINEERING
 Down To Earth, LLC
 122 Church Street
 Naugatuck, Connecticut 06770

FIGURE 5	
SITE PLAN	
LOCATIONS OF PCB DETECTIONS >1 PPM	
PARCEL B	
0 MAPLE STREET	
NAUGATUCK, CONNECTICUT	
DRAWN BY: VTI	CHECKED BY: TFC
PROJECT NO.	DATE: JULY 2020



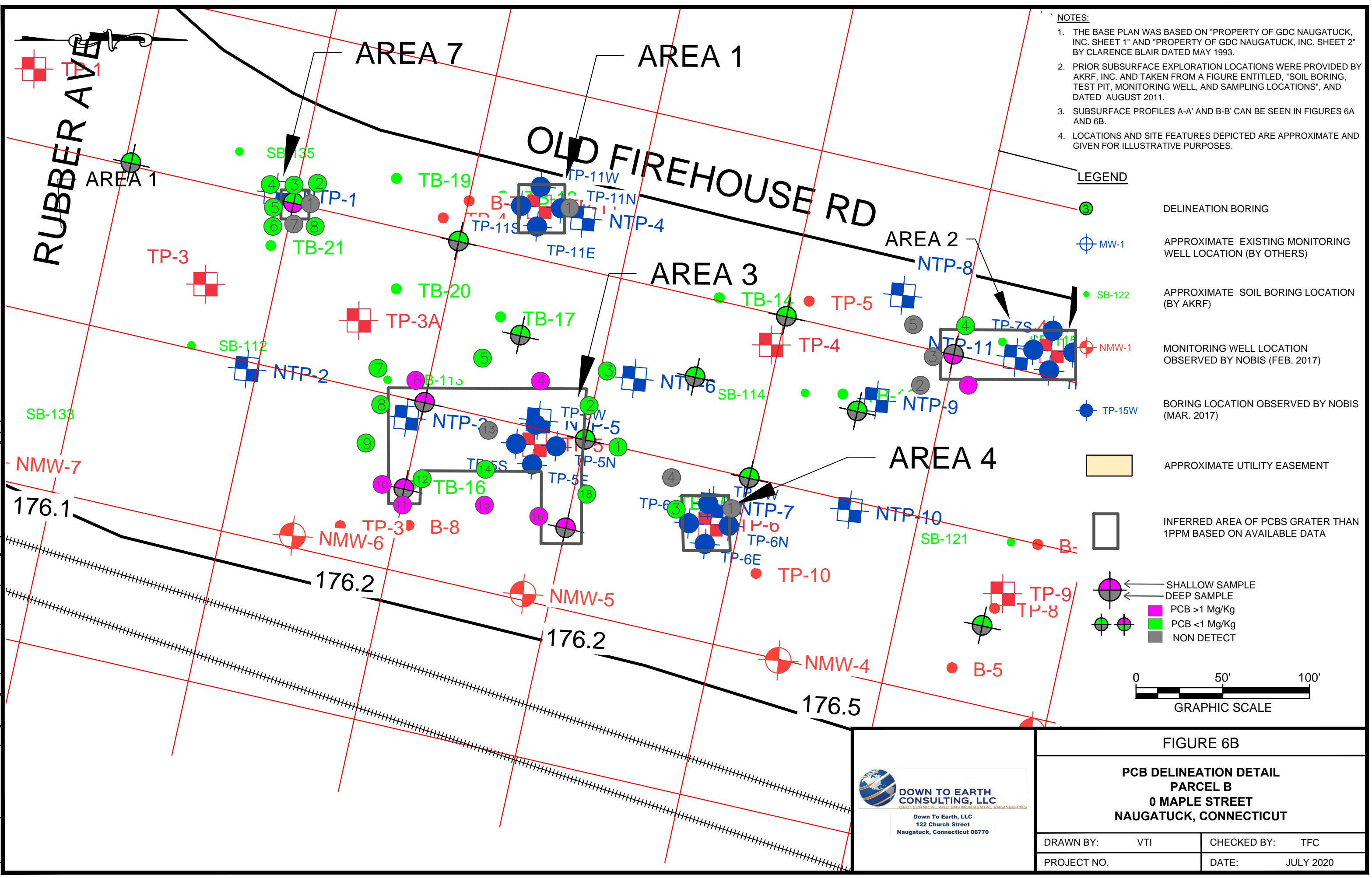
G:\Shared drives\Environmental Services\Borough of Naugatuck\Parcels A & B\DTTE Phases\CAD - Figures\Parcel B Master CAD 2021.dwg 6/18/2021 3:04 PM

**PUMP HOUSE TO BE DEMOLISHED
SIP LOCATION AREA 5/TP-15
(SEE FIGURE 6A)**

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122 Church Street
Naugatuck, Connecticut 06770

FIGURE 6A	
PCB DELINEATION SAMPLING DETAIL PARCEL B 0 MAPLE STREET NAUGATUCK, CONNECTICUT	
DRAWN BY: VTI	CHECKED BY: TFC
PROJECT NO.	DATE: JULY 2020

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- NOTES:**
1. THE BASE PLAN WAS BASED ON "PROPERTY OF GDC NAUGATUCK, INC. SHEET 1" AND "PROPERTY OF GDC NAUGATUCK, INC. SHEET 2" BY CLARENCE BLAIR DATED MAY 1993.
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 3. SUBSURFACE PROFILES A-A' AND B-B' CAN BE SEEN IN FIGURES 6A AND 6B.
 4. LOCATIONS AND SITE FEATURES DEPICTED ARE APPROXIMATE AND GIVEN FOR ILLUSTRATIVE PURPOSES.

LEGEND

- DELINEATION BORING
- ⊕ APPROXIMATE EXISTING MONITORING WELL LOCATION (BY OTHERS)
- APPROXIMATE SOIL BORING LOCATION (BY AKRF)
- ⊕ MONITORING WELL LOCATION OBSERVED BY NOBIS (FEB. 2017)
- ⊕ BORING LOCATION OBSERVED BY NOBIS (MAR. 2017)
- APPROXIMATE UTILITY EASEMENT
- INFERRED AREA OF PCBs GRATER THAN 1PPM BASED ON AVAILABLE DATA
- ← SHALLOW SAMPLE
- ← DEEP SAMPLE
- PCB >1 Mg/Kg
- PCB <1 Mg/Kg
- NON DETECT

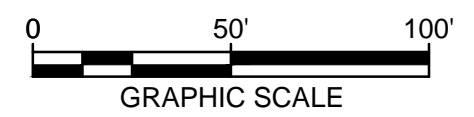
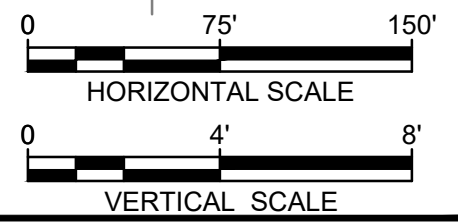
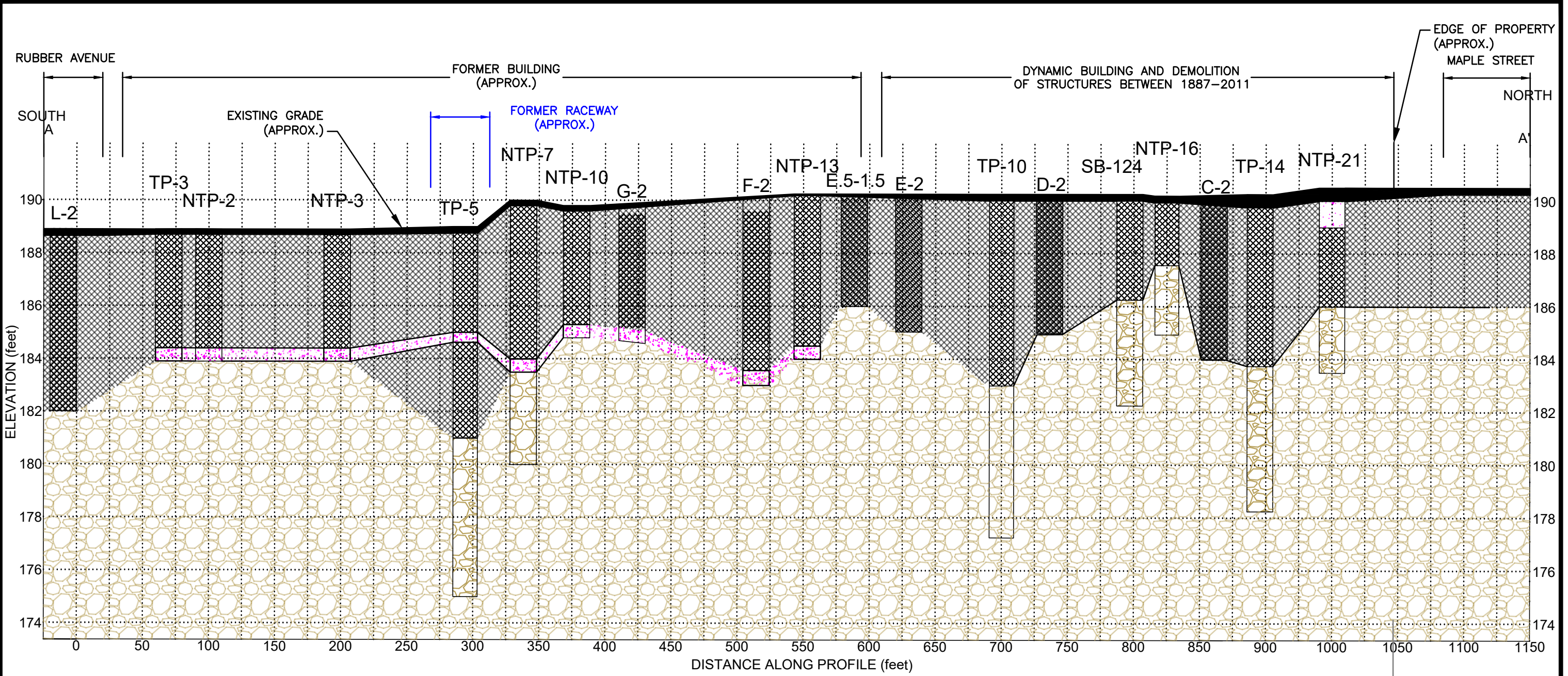


FIGURE 6B	
PCB DELINEATION DETAIL PARCEL B 0 MAPLE STREET NAUGATUCK, CONNECTICUT	
DRAWN BY: VTI	CHECKED BY: TFC
PROJECT NO.	DATE: JULY 2020

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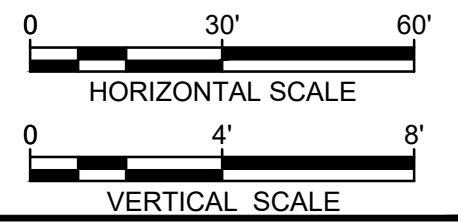
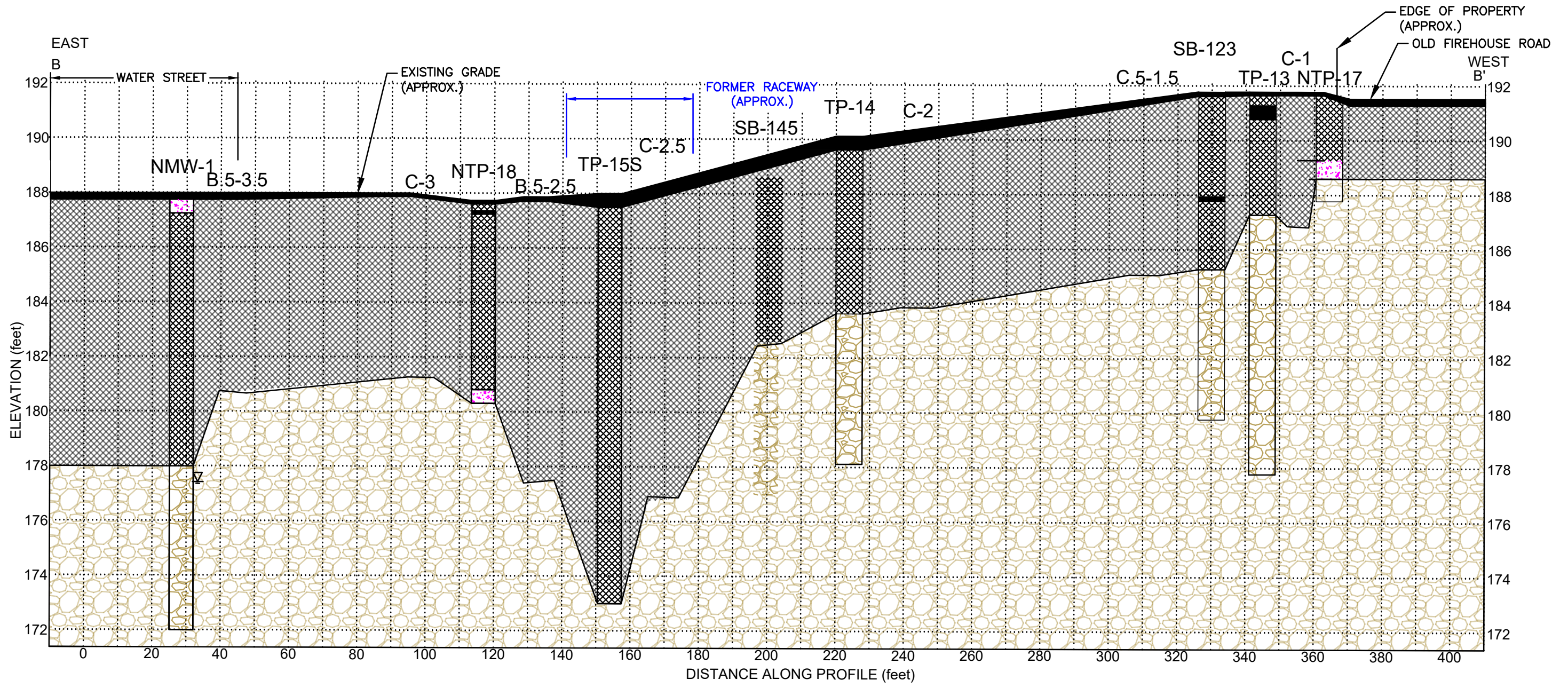
- NOTES:**
1. DATA CONCERNING THE VARIOUS STRATA HAVE BEEN INTERPRETED AT EXPLORATION LOCATIONS ONLY. STRATIGRAPHY BETWEEN EXPLORATIONS MAY VARY FROM THAT SHOWN.
 2. SEE FIGURE 2 FOR A PLAN VIEW OF SUBSURFACE PROFILE.

LEGEND	
	ASPHALT
	FILL
	SAND AND GRAVEL
	CONCRETE SLAB
	APPROXIMATE STRATIFICATION BOUNDARIES. ACTUAL TRANSITIONS WILL VARY.

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FIGURE 7A	
SUBSURFACE PROFILE	
VIEW A-A'	
PARCEL B	
0 MAPLE STREET	
NAUGATUCK, CONNECTICUT	
DRAWN BY: VTI	CHECKED BY: TFC
PROJECT NO.	DATE: JULY 2020

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- NOTES:**
1. DATA CONCERNING THE VARIOUS STRATA HAVE BEEN INTERPRETED AT EXPLORATION LOCATIONS ONLY. STRATIGRAPHY BETWEEN EXPLORATIONS MAY VARY FROM THAT SHOWN.
 2. SEE FIGURE 2 FOR A PLAN VIEW OF SUBSURFACE PROFILE.

LEGEND	
	ASPHALT
	FILL
	SAND AND GRAVEL
	CONCRETE SLAB
	WATER LEVEL READING AT TIME OF DRILLING
	APPROXIMATE STRATIFICATION BOUNDARIES. ACTUAL TRANSITIONS WILL VARY.

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FIGURE 7B	
SUBSURFACE PROFILE	
VIEW B-B'	
PARCEL B	
0 MAPLE STREET	
NAUGATUCK, CONNECTICUT	
DRAWN BY: VTI	CHECKED BY: TFC
PROJECT NO.	DATE: JULY 2020



TP-8/4-6 FBG
(.58 ppm)



TP-15W/6-7/12-13 FBG
(ND)



SB-141/6-8 FBG
(.5 ppm)



SB-142/6-8/10-12/13-15 FBG
(ND)



TP-15S/6.6-7.4/12-12.6 FBG
(ND)



TP-15/6-8 FBG
(47 ppm)



TP-15N/6-7/11-12 FBG
(ND)



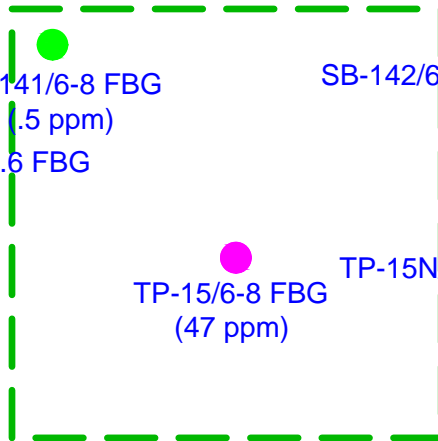
C-2.5/8-9/10-11 FBG
(ND)



TP-15E/6-7/12-13 FBG
(ND)



SB-143/8-10 FBG
(.65 ppm)



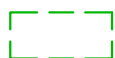
REFER TO TABLE 4 FOR SAMPLE RESULTS

APPROXIMATE SCALE 1"=15'

LEGEND

TP-15/6-8 FBG
(47 ppm)

SAMPLE DESIGNATION AND DEPTH
PCB RESULT (ppm)



APPROXIMATE LIMITS OF PCB REMEDIAL
EXCAVATIONS

- PCB >10 Mg/Kg
- PCB <1 Mg/Kg
- NON DETECT

NOTES:

1. THE EXTENTS OF PROPOSED EXCAVATION ARE APPROXIMATED AND BASED ON THE LABORATORY RESULTS IDENTIFIED ON THE TABLES.



FIGURE 8

**AREA 5 DETAIL
ESTIMATED EXTENT OF PCB IMPACT
PARCEL B
0 MAPLE STREET
NAUGATUCK, CONNECTICUT**

DRAWN BY:

VTI

CHECKED BY:

TFC

PROJECT NO.

DATE:

JULY 2020

APPENDIX 1
REGULATORY CORRESPONDANCE



Catherine H. Smith
Commissioner

Department of Economic and
Community Development

Connecticut
still revolutionary

November 7, 2017

N. Warren Hess III
Mayor
Borough of Naugatuck
229 Church Street,
Naugatuck, CT 06770

Re: Brownfield Remediation & Revitalization Program
Property Location – 6 Rubber Avenue and 0 Maple Street Naugatuck, CT

Dear Mayor Hess:

We are pleased to inform you that we have completed the review process for your application to the Brownfield Remediation & Revitalization Program. The Department of Economic and Community Development (DECD), working in consultation with the Department of Energy and Environmental Protection (DEEP), approves your application. The Borough of Naugatuck meets the definition of an innocent landowner as defined in CGS Section 32-760. Your property is now eligible for certain liability protections as you redevelop your brownfield site into productive use.

Acceptance into this program includes a fee equal to 5% of the assessed value of the land, which shall be taken from the municipality's most recently completed grand list. The fee shall be paid to DEEP in two installments, each equal to fifty percent of such fee, which may be subject to potential reductions specified in subsection (h) of CGS Section 32-769. No municipality seeking designation of eligibility shall be required to pay a fee, provided, upon transfer of the eligible property from the municipality to an eligible person, that eligible person shall pay to the Commissioner of Energy and Environmental Protection the fee in subsection (g) of this section in accordance with the applicable requirements in this subsection.

A Brownfield Investigation Plan and Remediation Schedule must be submitted to DEEP and DECD within 360 days after such applicant is notified that the application has been accepted by the commissioner. Please contact Mark Lewis at the Department of Energy and Environmental Protection at 860-424-3768 if you have any questions pertaining to the plan and schedule.

Thank you for your commitment to this program and for undertaking the steps necessary to redevelop this contaminated property.

Sincerely,


Tim Sullivan, Deputy Commissioner
For Catherine H. Smith, Commissioner

Catherine H. Smith
Commissioner



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION I

5 POST OFFICE SQUARE, SUITE 100
BOSTON, MA 02109-3912

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

November 13, 2017

The Honorable N. Warren Hess III
Mayor, Borough of Naugatuck
229 Church Street
Naugatuck, Connecticut 06770

Re: PCB Cleanup
Parcel B, 0 Maple Street


Dear Mayor Hess:

EPA has received a proposed plan dated October 3, 2017 ("Notification") to address PCB-contaminated soil on property owned by the Town of Naugatuck. The property, known as Parcel B, is located at 0 Maple Street. The Notification, received by EPA on October 6, 2017, was submitted on your behalf by Nobis Engineering, Inc. in accordance with 40 CFR § 761.61(a)(3). The primary cleanup objective as specified in the Notification is to remove all PCBs with greater than (" $>$ ") 1 part per million ("ppm"), with the contingency to leave up to 10 ppm PCBs, if the 1 ppm PCB cleanup standard cannot be achieved.

EPA has determined that the Notification does not meet the requirements as specified under 40 CFR § 761.61(a) with respect to delineation of PCB contamination at the property. If the Town would like to pursue the self-implementing cleanup and disposal approach, given that the source of the PCBs is believed to be associated with building debris, additional sampling will be necessary to ensure that the > 1 ppm PCBs at the property have been identified. The Town also may wish to consider the risk-based disposal option under § 761.61(c) given the overall size of the property.

Should you have any questions on the above or the PCB regulations, please feel free to call me at 617-918-1527 or Katherine Woodward at 617-918-1353.

Respectfully,


Kimberly N. Tisa, PCB Coordinator
Remediation and Restoration II Branch

cc: Stephen Vetere, Nobis
Gary Trombly, CTDEEP
James Byrne, EPA Brownfields
File

Cc: Tim Sullivan, DECD
Mark Lewis, DEEP
Pat DeRosa, DEEP
James Stewart, Borough of Naugatuck

**APPENDIX 3
LABORATORY DATA**

Project Location: Naugatuck, CT

Sample Description:

Work Order: 11A0018

Date Received: 12/30/2010

Field Sample #: GDCSB-141 (6-8)

Sampled: 12/29/2010 13:30

Sample ID: 11A0018-22

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:06	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:06	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:06	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:06	JMB
Aroclor-1248 [1]	0.30	0.11	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:06	JMB
Aroclor-1254 [1]	0.20	0.11	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:06	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:06	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:06	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:06	JMB
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		102	30-150					1/7/11 10:06	
Decachlorobiphenyl [2]		81.1	30-150					1/7/11 10:06	
Tetrachloro-m-xylene [1]		91.8	30-150					1/7/11 10:06	
Tetrachloro-m-xylene [2]		85.5	30-150					1/7/11 10:06	

Project Location: Naugatuck, CT

Sample Description:

Work Order: 11A0018

Date Received: 12/30/2010

Field Sample #: GDCSB-141 (6-8)

Sampled: 12/29/2010 13:30

Sample ID: 11A0018-22

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	250	0.82	mg/Kg dry	1		SW-846 6010B	1/4/11	1/5/11 15:37	OP

Project Location: Naugatuck, CT

Sample Description:

Work Order: 11A0018

Date Received: 12/30/2010

Field Sample #: GDCSB-141 (6-8)

Sampled: 12/29/2010 13:30

Sample ID: 11A0018-22

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.3		% Wt	1		SM 2540G	1/4/11	1/5/11 9:50	VAF

Project Location: Naugatuck, CT

Sample Description:

Work Order: 11A0018

Date Received: 12/30/2010

Field Sample #: GDCSB-141 (6-8)

Sampled: 12/29/2010 13:30

Sample ID: 11A0018-22

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1000	5.0	µg/L	5		SW-846 6020A	1/6/11	1/6/11 17:36	KSH

Project Location: Naugatuck, CT

Sample Description:

Work Order: 11A0018

Date Received: 12/30/2010

Field Sample #: GDCSB-142 (6-8)

Sampled: 12/29/2010 13:50

Sample ID: 11A0018-24

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	1/4/11	1/5/11 23:15	PJG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	1/4/11	1/5/11 23:15	PJG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	1/4/11	1/5/11 23:15	PJG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	1/4/11	1/5/11 23:15	PJG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	1/4/11	1/5/11 23:15	PJG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	1/4/11	1/5/11 23:15	PJG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	1/4/11	1/5/11 23:15	PJG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	1/4/11	1/5/11 23:15	PJG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	1/4/11	1/5/11 23:15	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		91.5	30-150					1/5/11 23:15	
Decachlorobiphenyl [2]		90.0	30-150					1/5/11 23:15	
Tetrachloro-m-xylene [1]		105	30-150					1/5/11 23:15	
Tetrachloro-m-xylene [2]		97.6	30-150					1/5/11 23:15	

Project Location: Naugatuck, CT

Sample Description:

Work Order: 11A0018

Date Received: 12/30/2010

Field Sample #: GDCSB-142 (6-8)

Sampled: 12/29/2010 13:50

Sample ID: 11A0018-24

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	4.0	2.8	mg/Kg dry	1		SW-846 6010B	1/4/11	1/5/11 13:58	OP
Lead	12	0.84	mg/Kg dry	1		SW-846 6010B	1/4/11	1/5/11 13:58	OP

Project Location: Naugatuck, CT

Sample Description:

Work Order: 11A0018

Date Received: 12/30/2010

Field Sample #: GDCSB-142 (6-8)

Sampled: 12/29/2010 13:50

Sample ID: 11A0018-24

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.0		% Wt	1		SM 2540G	1/4/11	1/5/11 9:50	VAF

Project Location: Naugatuck, CT

Sample Description:

Work Order: 11A0018

Date Received: 12/30/2010

Field Sample #: GDCSB-142 (6-8)

Sampled: 12/29/2010 13:50

Sample ID: 11A0018-24

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	1/6/11	1/6/11 17:40	KSH
Lead	ND	5.0	µg/L	5		SW-846 6020A	1/6/11	1/6/11 17:40	KSH

Project Location: Naugatuck, CT

Sample Description:

Work Order: 11A0018

Date Received: 12/30/2010

Field Sample #: GDCSB-142 (10-12)

Sampled: 12/29/2010 13:59

Sample ID: 11A0018-25

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:21	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:21	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:21	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:21	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:21	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:21	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:21	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:21	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:21	JMB
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		92.5	30-150					1/7/11 10:21	
Decachlorobiphenyl [2]		74.0	30-150					1/7/11 10:21	
Tetrachloro-m-xylene [1]		90.4	30-150					1/7/11 10:21	
Tetrachloro-m-xylene [2]		84.5	30-150					1/7/11 10:21	

Project Location: Naugatuck, CT

Sample Description:

Work Order: 11A0018

Date Received: 12/30/2010

Field Sample #: GDCSB-142 (10-12)

Sampled: 12/29/2010 13:59

Sample ID: 11A0018-25

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	230	1.1	mg/Kg dry	1		SW-846 6010B	1/4/11	1/5/11 15:40	OP

Project Location: Naugatuck, CT

Sample Description:

Work Order: 11A0018

Date Received: 12/30/2010

Field Sample #: GDCSB-142 (10-12)

Sampled: 12/29/2010 13:59

Sample ID: 11A0018-25

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.3		% Wt	1		SM 2540G	1/4/11	1/5/11 9:50	VAF

Project Location: Naugatuck, CT

Sample Description:

Work Order: 11A0018

Date Received: 12/30/2010

Field Sample #: GDCSB-142 (10-12)

Sampled: 12/29/2010 13:59

Sample ID: 11A0018-25

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	5.0	µg/L	5		SW-846 6020A	1/6/11	1/6/11 17:43	KSH

Project Location: Naugatuck, CT

Sample Description:

Work Order: 11A0018

Date Received: 12/30/2010

Field Sample #: GDCSB-142 (13-15)

Sampled: 12/29/2010 16:05

Sample ID: 11A0018-26

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	1.1	mg/Kg dry	4		SW-846 8270C	1/4/11	1/7/11 17:47	BGL
Acenaphthylene	ND	1.1	mg/Kg dry	4		SW-846 8270C	1/4/11	1/7/11 17:47	BGL
Anthracene	2.3	1.1	mg/Kg dry	4		SW-846 8270C	1/4/11	1/7/11 17:47	BGL
Benzo(a)anthracene	6.8	1.1	mg/Kg dry	4		SW-846 8270C	1/4/11	1/7/11 17:47	BGL
Benzo(a)pyrene	6.0	1.1	mg/Kg dry	4		SW-846 8270C	1/4/11	1/7/11 17:47	BGL
Benzo(b)fluoranthene	6.0	1.1	mg/Kg dry	4		SW-846 8270C	1/4/11	1/7/11 17:47	BGL
Benzo(g,h,i)perylene	3.7	1.1	mg/Kg dry	4		SW-846 8270C	1/4/11	1/7/11 17:47	BGL
Benzo(k)fluoranthene	3.5	1.1	mg/Kg dry	4		SW-846 8270C	1/4/11	1/7/11 17:47	BGL
Chrysene	7.9	1.1	mg/Kg dry	4		SW-846 8270C	1/4/11	1/7/11 17:47	BGL
Dibenz(a,h)anthracene	ND	1.1	mg/Kg dry	4		SW-846 8270C	1/4/11	1/7/11 17:47	BGL
Fluoranthene	15	1.1	mg/Kg dry	4	R-05	SW-846 8270C	1/4/11	1/7/11 17:47	BGL
Fluorene	1.3	1.1	mg/Kg dry	4		SW-846 8270C	1/4/11	1/7/11 17:47	BGL
Indeno(1,2,3-cd)pyrene	4.4	1.1	mg/Kg dry	4		SW-846 8270C	1/4/11	1/7/11 17:47	BGL
2-Methylnaphthalene	ND	1.1	mg/Kg dry	4		SW-846 8270C	1/4/11	1/7/11 17:47	BGL
Naphthalene	ND	1.1	mg/Kg dry	4		SW-846 8270C	1/4/11	1/7/11 17:47	BGL
Phenanthrene	11	1.1	mg/Kg dry	4		SW-846 8270C	1/4/11	1/7/11 17:47	BGL
Pyrene	13	1.1	mg/Kg dry	4		SW-846 8270C	1/4/11	1/7/11 17:47	BGL
Surrogates		% Recovery	Recovery Limits		Flag				
Nitrobenzene-d5		49.7	30-130					1/7/11 17:47	
2-Fluorobiphenyl		53.0	30-130					1/7/11 17:47	
Terphenyl-d14		58.1	30-130					1/7/11 17:47	

Project Location: Naugatuck, CT

Sample Description:

Work Order: 11A0018

Date Received: 12/30/2010

Field Sample #: GDCSB-142 (13-15)

Sampled: 12/29/2010 16:05

Sample ID: 11A0018-26

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.16	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:37	JMB
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:37	JMB
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:37	JMB
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:37	JMB
Aroclor-1248 [1]	ND	0.16	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:37	JMB
Aroclor-1254 [1]	ND	0.16	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:37	JMB
Aroclor-1260 [1]	ND	0.16	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:37	JMB
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:37	JMB
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:37	JMB
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		90.4	30-150					1/7/11 10:37	
Decachlorobiphenyl [2]		73.4	30-150					1/7/11 10:37	
Tetrachloro-m-xylene [1]		89.9	30-150					1/7/11 10:37	
Tetrachloro-m-xylene [2]		80.3	30-150					1/7/11 10:37	

Project Location: Naugatuck, CT

Sample Description:

Work Order: 11A0018

Date Received: 12/30/2010

Field Sample #: GDCSB-142 (13-15)

Sampled: 12/29/2010 16:05

Sample ID: 11A0018-26

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	4300	2000	mg/Kg dry	125		CTDEP ETPH	1/4/11	1/5/11 14:47	CJM
Surrogates	% Recovery		Recovery Limits		Flag				
o-Terphenyl		*	50-150		S-01			1/5/11 14:47	

Project Location: Naugatuck, CT

Sample Description:

Work Order: 11A0018

Date Received: 12/30/2010

Field Sample #: GDCSB-142 (13-15)

Sampled: 12/29/2010 16:05

Sample ID: 11A0018-26

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1600	1.3	mg/Kg dry	1		SW-846 6010B	1/4/11	1/5/11 15:45	OP

Project Location: Naugatuck, CT

Sample Description:

Work Order: 11A0018

Date Received: 12/30/2010

Field Sample #: GDCSB-142 (13-15)

Sampled: 12/29/2010 16:05

Sample ID: 11A0018-26

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	61.3		% Wt	1		SM 2540G	1/4/11	1/5/11 9:50	VAF

Project Location: Naugatuck, CT

Sample Description:

Work Order: 11A0018

Date Received: 12/30/2010

Field Sample #: GDCSB-142 (13-15)

Sampled: 12/29/2010 16:05

Sample ID: 11A0018-26

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	140	5.0	µg/L	5		SW-846 6020A	1/6/11	1/7/11 12:17	KSH

Project Location: Naugatuck, CT

Sample Description:

Work Order: 11A0018

Date Received: 12/30/2010

Field Sample #: GDCSB-143 (8-10)

Sampled: 12/29/2010 16:30

Sample ID: 11A0018-27

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:52	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:52	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:52	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:52	JMB
Aroclor-1248 [1]	0.34	0.12	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:52	JMB
Aroclor-1254 [2]	0.31	0.12	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:52	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:52	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:52	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082	1/4/11	1/7/11 10:52	JMB
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		89.6	30-150					1/7/11 10:52	
Decachlorobiphenyl [2]		72.6	30-150					1/7/11 10:52	
Tetrachloro-m-xylene [1]		77.4	30-150					1/7/11 10:52	
Tetrachloro-m-xylene [2]		70.6	30-150					1/7/11 10:52	

Project Location: Naugatuck, CT

Sample Description:

Work Order: 11A0018

Date Received: 12/30/2010

Field Sample #: GDCSB-143 (8-10)

Sampled: 12/29/2010 16:30

Sample ID: 11A0018-27

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	1/4/11	1/5/11 9:50	VAF

Project Location: 6 Rubber Ave., Naugatuck, CT

Sample Description:

Work Order: 10L0137

Date Received: 12/3/2010

Field Sample #: GDC-TP-15 (0-2)

Sampled: 12/3/2010 07:40

Sample ID: 10L0137-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	11	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Acenaphthene	ND	0.22	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Acenaphthylene	ND	11	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Acenaphthylene	ND	0.22	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Aniline	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Aniline	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Anthracene	ND	11	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Anthracene	0.39	0.22	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Benzo(a)anthracene	ND	11	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Benzo(a)anthracene	1.8	0.22	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Benzo(a)pyrene	ND	11	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Benzo(a)pyrene	2.1	0.22	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Benzo(b)fluoranthene	ND	11	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Benzo(b)fluoranthene	2.9	0.22	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Benzo(g,h,i)perylene	ND	11	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Benzo(g,h,i)perylene	1.0	0.22	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Benzo(k)fluoranthene	ND	11	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Benzo(k)fluoranthene	1.1	0.22	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Bis(2-chloroethoxy)methane	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Bis(2-chloroethoxy)methane	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Bis(2-chloroethyl)ether	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Bis(2-chloroethyl)ether	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Bis(2-chloroisopropyl)ether	ND	22	mg/Kg dry	50	V-04	SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Bis(2-chloroisopropyl)ether	ND	0.44	mg/Kg dry	1	V-04, V-05	SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Bis(2-Ethylhexyl)phthalate	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Bis(2-Ethylhexyl)phthalate	0.58	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
4-Bromophenylphenylether	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
4-Bromophenylphenylether	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Butylbenzylphthalate	110	43	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Butylbenzylphthalate	44	0.86	mg/Kg dry	1	E	SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Carbazole	ND	11	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Carbazole	ND	0.22	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
4-Chloroaniline	ND	43	mg/Kg dry	50	L-04	SW-846 8270C	12/6/10	12/13/10 11:12	BGL
4-Chloroaniline	ND	0.86	mg/Kg dry	1	L-04	SW-846 8270C	12/6/10	12/11/10 17:06	BGL
4-Chloro-3-methylphenol	ND	43	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
4-Chloro-3-methylphenol	ND	0.86	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
2-Chloronaphthalene	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
2-Chloronaphthalene	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
2-Chlorophenol	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
2-Chlorophenol	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
4-Chlorophenylphenylether	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
4-Chlorophenylphenylether	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Chrysene	ND	11	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL

Project Location: 6 Rubber Ave., Naugatuck, CT

Sample Description:

Work Order: 10L0137

Date Received: 12/3/2010

Field Sample #: GDC-TP-15 (0-2)

Sampled: 12/3/2010 07:40

Sample ID: 10L0137-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chrysene	1.8	0.22	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Dibenz(a,h)anthracene	ND	11	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Dibenz(a,h)anthracene	0.31	0.22	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Dibenzofuran	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Dibenzofuran	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Di-n-butylphthalate	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Di-n-butylphthalate	0.61	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
3,3-Dichlorobenzidine	ND	11	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
3,3-Dichlorobenzidine	ND	0.22	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
2,4-Dichlorophenol	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
2,4-Dichlorophenol	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Diethylphthalate	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Diethylphthalate	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
2,4-Dimethylphenol	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
2,4-Dimethylphenol	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Dimethylphthalate	ND	43	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Dimethylphthalate	ND	0.86	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
4,6-Dinitro-2-methylphenol	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
4,6-Dinitro-2-methylphenol	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
2,4-Dinitrophenol	ND	43	mg/Kg dry	50	V-04	SW-846 8270C	12/6/10	12/13/10 11:12	BGL
2,4-Dinitrophenol	ND	0.86	mg/Kg dry	1	V-04	SW-846 8270C	12/6/10	12/11/10 17:06	BGL
2,4-Dinitrotoluene	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
2,4-Dinitrotoluene	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
2,6-Dinitrotoluene	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
2,6-Dinitrotoluene	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Di-n-octylphthalate	ND	43	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Di-n-octylphthalate	ND	0.86	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Fluoranthene	ND	11	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Fluoranthene	2.8	0.22	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Fluorene	ND	11	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Fluorene	ND	0.22	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Hexachlorobenzene	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Hexachlorobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Hexachlorobutadiene	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Hexachlorobutadiene	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Hexachlorocyclopentadiene	ND	0.86	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Hexachlorocyclopentadiene	ND	43	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Hexachloroethane	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Hexachloroethane	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Indeno(1,2,3-cd)pyrene	1.3	0.22	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Indeno(1,2,3-cd)pyrene	ND	11	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Isophorone	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Isophorone	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL

Project Location: 6 Rubber Ave., Naugatuck, CT

Sample Description:

Work Order: 10L0137

Date Received: 12/3/2010

Field Sample #: GDC-TP-15 (0-2)

Sampled: 12/3/2010 07:40

Sample ID: 10L0137-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylnaphthalene	ND	11	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
2-Methylnaphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
2-Methylphenol	ND	22	mg/Kg dry	50	R-05	SW-846 8270C	12/6/10	12/13/10 11:12	BGL
2-Methylphenol	ND	0.44	mg/Kg dry	1	R-05	SW-846 8270C	12/6/10	12/11/10 17:06	BGL
3/4-Methylphenol	ND	22	mg/Kg dry	50	R-05	SW-846 8270C	12/6/10	12/13/10 11:12	BGL
3/4-Methylphenol	ND	0.44	mg/Kg dry	1	R-05	SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Naphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Naphthalene	ND	11	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
2-Nitroaniline	ND	22	mg/Kg dry	50	R-05	SW-846 8270C	12/6/10	12/13/10 11:12	BGL
2-Nitroaniline	ND	0.44	mg/Kg dry	1	R-05	SW-846 8270C	12/6/10	12/11/10 17:06	BGL
3-Nitroaniline	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
3-Nitroaniline	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
4-Nitroaniline	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
4-Nitroaniline	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Nitrobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Nitrobenzene	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
2-Nitrophenol	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
2-Nitrophenol	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
4-Nitrophenol	ND	43	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
4-Nitrophenol	ND	0.86	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
N-Nitrosodiphenylamine	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
N-Nitrosodiphenylamine	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
N-Nitrosodi-n-propylamine	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
N-Nitrosodi-n-propylamine	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Pentachloronitrobenzene	ND	0.44	mg/Kg dry	1	V-16	SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Pentachloronitrobenzene	ND	22	mg/Kg dry	50	V-16	SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Pentachlorophenol	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Pentachlorophenol	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Phenanthrene	1.6	0.22	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Phenanthrene	ND	11	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Phenol	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Phenol	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Pyrene	2.3	0.22	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Pyrene	ND	11	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
Pyridine	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Pyridine	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
1,2,4,5-Tetrachlorobenzene	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
1,2,4-Trichlorobenzene	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
1,2,4-Trichlorobenzene	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
2,4,5-Trichlorophenol	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL
2,4,5-Trichlorophenol	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
2,4,6-Trichlorophenol	ND	22	mg/Kg dry	50		SW-846 8270C	12/6/10	12/13/10 11:12	BGL

Project Location: 6 Rubber Ave., Naugatuck, CT

Sample Description:

Work Order: 10L0137

Date Received: 12/3/2010

Field Sample #: GDC-TP-15 (0-2)

Sampled: 12/3/2010 07:40

Sample ID: 10L0137-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4,6-Trichlorophenol	ND	0.44	mg/Kg dry	1		SW-846 8270C	12/6/10	12/11/10 17:06	BGL
Surrogates	% Recovery	Recovery Limits			Flag				
2-Fluorophenol	*	30-130			S-01			12/13/10 11:12	
2-Fluorophenol	66.0	30-130						12/11/10 17:06	
Phenol-d6	67.2	30-130						12/11/10 17:06	
Phenol-d6	*	30-130			S-01			12/13/10 11:12	
Nitrobenzene-d5	50.0	30-130						12/11/10 17:06	
Nitrobenzene-d5	*	30-130			S-01			12/13/10 11:12	
2-Fluorobiphenyl	*	30-130			S-01			12/13/10 11:12	
2-Fluorobiphenyl	55.9	30-130						12/11/10 17:06	
2,4,6-Tribromophenol	*	30-130			S-01			12/13/10 11:12	
2,4,6-Tribromophenol	72.2	30-130						12/11/10 17:06	
Terphenyl-d14	49.9	30-130						12/11/10 17:06	
Terphenyl-d14	*	30-130			S-01			12/13/10 11:12	

Project Location: 6 Rubber Ave., Naugatuck, CT

Sample Description:

Work Order: 10L0137

Date Received: 12/3/2010

Field Sample #: GDC-TP-15 (0-2)

Sampled: 12/3/2010 07:40

Sample ID: 10L0137-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	6.2	3.3	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:07	OP
Arsenic	5.3	3.3	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:07	OP
Barium	550	3.3	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:07	OP
Beryllium	ND	0.33	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:07	OP
Cadmium	1.3	0.33	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:07	OP
Chromium	14	0.66	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:07	OP
Copper	56	0.66	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:07	OP
Lead	530	1.0	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:07	OP
Mercury	0.71	0.015	mg/Kg dry	1		SW-846 7471A	12/6/10	12/7/10 14:15	CWB
Nickel	11	0.66	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:07	OP
Selenium	ND	6.6	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:07	OP
Silver	ND	0.66	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:07	OP
Thallium	ND	3.3	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:07	OP
Vanadium	33	1.3	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:07	OP
Zinc	520	1.3	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:07	OP

Project Location: 6 Rubber Ave., Naugatuck, CT

Sample Description:

Work Order: 10L0137

Date Received: 12/3/2010

Field Sample #: GDC-TP-15 (0-2)

Sampled: 12/3/2010 07:40

Sample ID: 10L0137-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.9		% Wt	1		SM 2540G	12/7/10	12/7/10 15:16	VAF

Project Location: 6 Rubber Ave., Naugatuck, CT

Sample Description:

Work Order: 10L0137

Date Received: 12/3/2010

Field Sample #: GDC-TP-15 (0-2)

Sampled: 12/3/2010 07:40

Sample ID: 10L0137-01

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	7.8	5.0	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:51	KSH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:51	KSH
Barium	62	50	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:51	KSH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:51	KSH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:51	KSH
Chromium	ND	5.0	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:51	KSH
Copper	ND	25	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:51	KSH
Lead	61	5.0	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:51	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	12/10/10	12/10/10 13:49	CWB
Nickel	ND	25	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:51	KSH
Selenium	ND	25	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:51	KSH
Silver	ND	2.5	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:51	KSH
Thallium	ND	1.0	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:51	KSH
Vanadium	ND	25	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:51	KSH
Zinc	66	50	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:51	KSH

Project Location: 6 Rubber Ave., Naugatuck, CT

Sample Description:

Work Order: 10L0137

Date Received: 12/3/2010

Field Sample #: GDC-TP-15 (6-8)

Sampled: 12/3/2010 07:50

Sample ID: 10L0137-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	mg/Kg dry	1	V-16	SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Acrylonitrile	ND	0.0070	mg/Kg dry	1	V-16	SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Benzene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Bromobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Bromodichloromethane	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Bromoform	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Bromomethane	ND	0.012	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
2-Butanone (MEK)	ND	0.047	mg/Kg dry	1	V-16	SW-846 8260B	12/6/10	12/6/10 15:31	MFF
n-Butylbenzene	ND	0.0047	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
sec-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
tert-Butylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Carbon Disulfide	ND	0.0070	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Carbon Tetrachloride	ND	0.0047	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Chlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Chlorodibromomethane	ND	0.0047	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Chloroethane	ND	0.023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Chloroform	ND	0.0047	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Chloromethane	ND	0.012	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
2-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
4-Chlorotoluene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Dibromomethane	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
1,2-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
1,3-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
1,4-Dichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
trans-1,4-Dichloro-2-butene	ND	0.0047	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
1,1-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
1,2-Dichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
1,1-Dichloroethylene	ND	0.0047	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
cis-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
trans-1,2-Dichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
1,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
1,3-Dichloropropane	ND	0.0012	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
2,2-Dichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
1,1-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
cis-1,3-Dichloropropene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
trans-1,3-Dichloropropene	ND	0.0047	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Ethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Hexachlorobutadiene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
2-Hexanone (MBK)	ND	0.023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Isopropylbenzene (Cumene)	ND	0.0047	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF

Project Location: 6 Rubber Ave., Naugatuck, CT

Sample Description:

Work Order: 10L0137

Date Received: 12/3/2010

Field Sample #: GDC-TP-15 (6-8)

Sampled: 12/3/2010 07:50

Sample ID: 10L0137-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
p-Isopropyltoluene (p-Cymene)	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0047	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Methylene Chloride	ND	0.023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Naphthalene	ND	0.0047	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
n-Propylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Styrene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Tetrachloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Tetrahydrofuran	ND	0.012	mg/Kg dry	1	V-16	SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Toluene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
1,2,3-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
1,2,4-Trichlorobenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
1,1,1-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
1,1,2-Trichloroethane	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Trichloroethylene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
1,2,3-Trichloropropane	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
1,2,4-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
1,3,5-Trimethylbenzene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
Vinyl Chloride	ND	0.012	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
m+p Xylene	ND	0.0047	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF
o-Xylene	ND	0.0023	mg/Kg dry	1		SW-846 8260B	12/6/10	12/6/10 15:31	MFF

Surrogates	% Recovery	Recovery Limits	Flag
1,2-Dichloroethane-d4	105	70-130	
Toluene-d8	94.4	70-130	
4-Bromofluorobenzene	93.8	70-130	

Project Location: 6 Rubber Ave., Naugatuck, CT

Sample Description:

Work Order: 10L0137

Date Received: 12/3/2010

Field Sample #: GDC-TP-15 (6-8)

Sampled: 12/3/2010 07:50

Sample ID: 10L0137-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Aniline	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Anthracene	0.27	0.21	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Benzo(a)anthracene	1.3	0.21	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Benzo(a)pyrene	1.6	0.21	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Benzo(b)fluoranthene	2.3	0.21	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Benzo(g,h,i)perylene	0.79	0.21	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Benzo(k)fluoranthene	0.84	0.21	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Bis(2-chloroethoxy)methane	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Bis(2-chloroethyl)ether	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Bis(2-chloroisopropyl)ether	ND	0.43	mg/Kg dry	1	V-04, V-05	SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
4-Bromophenylphenylether	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Butylbenzylphthalate	ND	0.83	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Carbazole	ND	0.21	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
4-Chloroaniline	ND	0.83	mg/Kg dry	1	L-04	SW-846 8270C	12/6/10	12/9/10 19:01	BGL
4-Chloro-3-methylphenol	ND	0.83	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
2-Chloronaphthalene	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
2-Chlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
4-Chlorophenylphenylether	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Chrysene	1.3	0.21	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1	V-06	SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Dibenzofuran	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Di-n-butylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
3,3-Dichlorobenzidine	ND	0.21	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
2,4-Dichlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Diethylphthalate	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
2,4-Dimethylphenol	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Dimethylphthalate	ND	0.83	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
4,6-Dinitro-2-methylphenol	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
2,4-Dinitrophenol	ND	0.83	mg/Kg dry	1	V-04	SW-846 8270C	12/6/10	12/9/10 19:01	BGL
2,4-Dinitrotoluene	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
2,6-Dinitrotoluene	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Di-n-octylphthalate	ND	0.83	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Fluoranthene	2.0	0.21	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Hexachlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Hexachlorobutadiene	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Hexachlorocyclopentadiene	ND	0.83	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Hexachloroethane	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Indeno(1,2,3-cd)pyrene	0.92	0.21	mg/Kg dry	1	V-06	SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Isophorone	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL

Project Location: 6 Rubber Ave., Naugatuck, CT

Sample Description:

Work Order: 10L0137

Date Received: 12/3/2010

Field Sample #: GDC-TP-15 (6-8)

Sampled: 12/3/2010 07:50

Sample ID: 10L0137-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
2-Methylphenol	ND	0.43	mg/Kg dry	1	R-05	SW-846 8270C	12/6/10	12/9/10 19:01	BGL
3/4-Methylphenol	ND	0.43	mg/Kg dry	1	R-05	SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
2-Nitroaniline	ND	0.43	mg/Kg dry	1	R-05	SW-846 8270C	12/6/10	12/9/10 19:01	BGL
3-Nitroaniline	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
4-Nitroaniline	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Nitrobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
2-Nitrophenol	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
4-Nitrophenol	ND	0.83	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
N-Nitrosodiphenylamine	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
N-Nitrosodi-n-propylamine	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Pentachloronitrobenzene	ND	0.43	mg/Kg dry	1	V-16	SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Pentachlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Phenanthrene	1.3	0.21	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Phenol	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Pyrene	1.6	0.21	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
Pyridine	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
1,2,4-Trichlorobenzene	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
2,4,5-Trichlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL
2,4,6-Trichlorophenol	ND	0.43	mg/Kg dry	1		SW-846 8270C	12/6/10	12/9/10 19:01	BGL

Surrogates	% Recovery	Recovery Limits	Flag
2-Fluorophenol	77.3	30-130	
Phenol-d6	86.3	30-130	
Nitrobenzene-d5	58.1	30-130	
2-Fluorobiphenyl	64.9	30-130	
2,4,6-Tribromophenol	62.4	30-130	
Terphenyl-d14	42.0	30-130	

Project Location: 6 Rubber Ave., Naugatuck, CT

Sample Description:

Work Order: 10L0137

Date Received: 12/3/2010

Field Sample #: GDC-TP-15 (6-8)

Sampled: 12/3/2010 07:50

Sample ID: 10L0137-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	6.2	mg/Kg dry	50		SW-846 8082	12/6/10	12/7/10 17:04	PJG
Aroclor-1221 [1]	ND	6.2	mg/Kg dry	50		SW-846 8082	12/6/10	12/7/10 17:04	PJG
Aroclor-1232 [1]	ND	6.2	mg/Kg dry	50		SW-846 8082	12/6/10	12/7/10 17:04	PJG
Aroclor-1242 [1]	47	6.2	mg/Kg dry	50		SW-846 8082	12/6/10	12/7/10 17:04	PJG
Aroclor-1248 [1]	ND	6.2	mg/Kg dry	50		SW-846 8082	12/6/10	12/7/10 17:04	PJG
Aroclor-1254 [1]	ND	6.2	mg/Kg dry	50		SW-846 8082	12/6/10	12/7/10 17:04	PJG
Aroclor-1260 [1]	ND	6.2	mg/Kg dry	50		SW-846 8082	12/6/10	12/7/10 17:04	PJG
Aroclor-1262 [1]	ND	6.2	mg/Kg dry	50		SW-846 8082	12/6/10	12/7/10 17:04	PJG
Aroclor-1268 [1]	ND	6.2	mg/Kg dry	50		SW-846 8082	12/6/10	12/7/10 17:04	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		*	30-150		S-01			12/7/10 17:04	
Decachlorobiphenyl [2]		*	30-150		S-01			12/7/10 17:04	
Tetrachloro-m-xylene [1]		*	30-150		S-01			12/7/10 17:04	
Tetrachloro-m-xylene [2]		*	30-150		S-01			12/7/10 17:04	

Project Location: 6 Rubber Ave., Naugatuck, CT

Sample Description:

Work Order: 10L0137

Date Received: 12/3/2010

Field Sample #: GDC-TP-15 (6-8)

Sampled: 12/3/2010 07:50

Sample ID: 10L0137-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	320	130	mg/Kg dry	10		CTDEP ETPH	12/6/10	12/7/10 3:39	CJM
Surrogates		% Recovery	Recovery Limits		Flag				
o-Terphenyl		60.0	50-150					12/7/10 3:39	

Project Location: 6 Rubber Ave., Naugatuck, CT

Sample Description:

Work Order: 10L0137

Date Received: 12/3/2010

Field Sample #: GDC-TP-15 (6-8)

Sampled: 12/3/2010 07:50

Sample ID: 10L0137-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	3.8	3.2	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:11	OP
Arsenic	28	3.2	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:11	OP
Barium	550	3.2	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:11	OP
Beryllium	ND	0.32	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:11	OP
Cadmium	1.3	0.32	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:11	OP
Chromium	11	0.64	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:11	OP
Copper	64	0.64	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:11	OP
Lead	410	0.96	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:11	OP
Mercury	1.8	0.051	mg/Kg dry	3		SW-846 7471A	12/6/10	12/7/10 14:38	CWB
Nickel	12	0.64	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:11	OP
Selenium	ND	6.4	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:11	OP
Silver	ND	0.64	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:11	OP
Thallium	ND	3.2	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:11	OP
Vanadium	39	1.3	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:11	OP
Zinc	540	1.3	mg/Kg dry	1		SW-846 6010B	12/7/10	12/8/10 15:11	OP

Project Location: 6 Rubber Ave., Naugatuck, CT

Sample Description:

Work Order: 10L0137

Date Received: 12/3/2010

Field Sample #: GDC-TP-15 (6-8)

Sampled: 12/3/2010 07:50

Sample ID: 10L0137-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.56	mg/Kg dry	1		SW846 9014	12/9/10	12/9/10 10:45	VAK
% Solids	79.4		% Wt	1		SM 2540G	12/7/10	12/7/10 15:16	VAF

Project Location: 6 Rubber Ave., Naugatuck, CT

Sample Description:

Work Order: 10L0137

Date Received: 12/3/2010

Field Sample #: GDC-TP-15 (6-8)

Sampled: 12/3/2010 07:50

Sample ID: 10L0137-02

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	6.5	5.0	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:55	KSH
Arsenic	6.6	2.0	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:55	KSH
Barium	71	50	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:55	KSH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:55	KSH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:55	KSH
Chromium	ND	5.0	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:55	KSH
Copper	ND	25	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:55	KSH
Lead	24	5.0	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:55	KSH
Mercury	0.00013	0.00010	mg/L	1		SW-846 7470A	12/10/10	12/10/10 13:53	CWB
Nickel	ND	25	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:55	KSH
Selenium	ND	25	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:55	KSH
Silver	ND	2.5	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:55	KSH
Thallium	ND	1.0	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:55	KSH
Vanadium	ND	25	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:55	KSH
Zinc	ND	50	µg/L	5		SW-846 6020A	12/10/10	12/10/10 13:55	KSH

Project Location: 6 Rubber Ave, Naugatuck, CT

Sample Description:

Work Order: 10L0090

Date Received: 12/2/2010

Field Sample #: GDC-TP-08 (4-6)

Sampled: 12/2/2010 09:15

Sample ID: 10L0090-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Aniline	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Anthracene	0.34	0.19	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Benzo(a)anthracene	1.6	0.19	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Benzo(a)pyrene	1.7	0.19	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Benzo(b)fluoranthene	2.4	0.19	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Benzo(g,h,i)perylene	1.1	0.19	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Benzo(k)fluoranthene	0.85	0.19	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1	V-04, V-05	SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Bis(2-Ethylhexyl)phthalate	2.3	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Butylbenzylphthalate	ND	0.72	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Carbazole	ND	0.19	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
4-Chloroaniline	ND	0.72	mg/Kg dry	1	L-04	SW-846 8270C	12/3/10	12/7/10 16:20	BGL
4-Chloro-3-methylphenol	ND	0.72	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
4-Chlorophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Chrysene	1.5	0.19	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Dibenz(a,h)anthracene	0.31	0.19	mg/Kg dry	1	V-06	SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Di-n-butylphthalate	1.6	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Dimethylphthalate	ND	0.72	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
4,6-Dinitro-2-methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
2,4-Dinitrophenol	ND	0.72	mg/Kg dry	1	V-04	SW-846 8270C	12/3/10	12/7/10 16:20	BGL
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Di-n-octylphthalate	ND	0.72	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Fluoranthene	3.2	0.19	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Hexachlorocyclopentadiene	ND	0.72	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Indeno(1,2,3-cd)pyrene	1.3	0.19	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL

Project Location: 6 Rubber Ave, Naugatuck, CT

Sample Description:

Work Order: 10L0090

Date Received: 12/2/2010

Field Sample #: GDC-TP-08 (4-6)

Sampled: 12/2/2010 09:15

Sample ID: 10L0090-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
2-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
3-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
4-Nitroaniline	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
4-Nitrophenol	ND	0.72	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
N-Nitrosodiphenylamine	1.6	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
N-Nitrosodi-n-propylamine	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Pentachloronitrobenzene	ND	0.37	mg/Kg dry	1	V-16	SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Phenanthrene	1.2	0.19	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Pyrene	2.2	0.19	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Pyridine	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270C	12/3/10	12/7/10 16:20	BGL
Surrogates		% Recovery	Recovery Limits		Flag				
2-Fluorophenol		85.8	30-130					12/7/10 16:20	
Phenol-d6		101	30-130					12/7/10 16:20	
Nitrobenzene-d5		68.0	30-130					12/7/10 16:20	
2-Fluorobiphenyl		96.1	30-130					12/7/10 16:20	
2,4,6-Tribromophenol		62.6	30-130					12/7/10 16:20	
Terphenyl-d14		72.6	30-130					12/7/10 16:20	

Project Location: 6 Rubber Ave, Naugatuck, CT

Sample Description:

Work Order: 10L0090

Date Received: 12/2/2010

Field Sample #: GDC-TP-08 (4-6)

Sampled: 12/2/2010 09:15

Sample ID: 10L0090-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	12/3/10	12/7/10 0:05	PJG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	12/3/10	12/7/10 0:05	PJG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	12/3/10	12/7/10 0:05	PJG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	12/3/10	12/7/10 0:05	PJG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	12/3/10	12/7/10 0:05	PJG
Aroclor-1254 [2]	0.58	0.11	mg/Kg dry	1		SW-846 8082	12/3/10	12/7/10 0:05	PJG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	12/3/10	12/7/10 0:05	PJG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	12/3/10	12/7/10 0:05	PJG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082	12/3/10	12/7/10 0:05	PJG
Surrogates		% Recovery	Recovery Limits		Flag				
Decachlorobiphenyl [1]		96.0	30-150					12/7/10 0:05	
Decachlorobiphenyl [2]		144	30-150					12/7/10 0:05	
Tetrachloro-m-xylene [1]		101	30-150					12/7/10 0:05	
Tetrachloro-m-xylene [2]		106	30-150					12/7/10 0:05	

Project Location: 6 Rubber Ave, Naugatuck, CT

Sample Description:

Work Order: 10L0090

Date Received: 12/2/2010

Field Sample #: GDC-TP-08 (4-6)

Sampled: 12/2/2010 09:15

Sample ID: 10L0090-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	310	110	mg/Kg dry	10		CTDEP ETPH	12/6/10	12/7/10 4:16	CJM
Surrogates		% Recovery	Recovery Limits		Flag				
o-Terphenyl		70.7	50-150					12/7/10 4:16	

Project Location: 6 Rubber Ave, Naugatuck, CT

Sample Description:

Work Order: 10L0090

Date Received: 12/2/2010

Field Sample #: GDC-TP-08 (4-6)

Sampled: 12/2/2010 09:15

Sample ID: 10L0090-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.6	mg/Kg dry	1		SW-846 6010B	12/3/10	12/7/10 16:57	OP
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010B	12/3/10	12/7/10 16:57	OP
Barium	270	2.6	mg/Kg dry	1		SW-846 6010B	12/3/10	12/7/10 16:57	OP
Beryllium	ND	0.26	mg/Kg dry	1		SW-846 6010B	12/3/10	12/7/10 16:57	OP
Cadmium	1.9	0.26	mg/Kg dry	1		SW-846 6010B	12/3/10	12/7/10 16:57	OP
Chromium	16	0.53	mg/Kg dry	1		SW-846 6010B	12/3/10	12/7/10 16:57	OP
Copper	42	0.53	mg/Kg dry	1		SW-846 6010B	12/3/10	12/7/10 16:57	OP
Lead	88	0.79	mg/Kg dry	1		SW-846 6010B	12/3/10	12/7/10 16:57	OP
Mercury	0.14	0.013	mg/Kg dry	1		SW-846 7471A	12/6/10	12/7/10 13:54	CWB
Nickel	11	0.53	mg/Kg dry	1		SW-846 6010B	12/3/10	12/7/10 16:57	OP
Selenium	ND	5.3	mg/Kg dry	1		SW-846 6010B	12/3/10	12/7/10 16:57	OP
Silver	ND	0.53	mg/Kg dry	1		SW-846 6010B	12/3/10	12/7/10 16:57	OP
Thallium	ND	2.6	mg/Kg dry	1		SW-846 6010B	12/3/10	12/7/10 16:57	OP
Vanadium	21	1.1	mg/Kg dry	1		SW-846 6010B	12/3/10	12/7/10 16:57	OP
Zinc	390	1.1	mg/Kg dry	1		SW-846 6010B	12/3/10	12/7/10 16:57	OP

Project Location: 6 Rubber Ave, Naugatuck, CT

Sample Description:

Work Order: 10L0090

Date Received: 12/2/2010

Field Sample #: GDC-TP-08 (4-6)

Sampled: 12/2/2010 09:15

Sample ID: 10L0090-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	ND	0.38	mg/Kg dry	1		SW846 9014	12/8/10	12/8/10 13:45	VAK
% Solids	91.1		% Wt	1		SM 2540G	12/6/10	12/7/10 9:13	VAF

Project Location: 6 Rubber Ave, Naugatuck, CT

Sample Description:

Work Order: 10L0090

Date Received: 12/2/2010

Field Sample #: GDC-TP-08 (4-6)

Sampled: 12/2/2010 09:15

Sample ID: 10L0090-02

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A	12/7/10	12/7/10 17:02	KSH
Arsenic	ND	2.0	µg/L	5		SW-846 6020A	12/7/10	12/7/10 17:02	KSH
Barium	70	50	µg/L	5		SW-846 6020A	12/7/10	12/7/10 17:02	KSH
Beryllium	ND	2.0	µg/L	5		SW-846 6020A	12/7/10	12/7/10 17:02	KSH
Cadmium	ND	2.5	µg/L	5		SW-846 6020A	12/7/10	12/7/10 17:02	KSH
Chromium	ND	5.0	µg/L	5		SW-846 6020A	12/7/10	12/7/10 17:02	KSH
Copper	ND	25	µg/L	5		SW-846 6020A	12/7/10	12/7/10 17:02	KSH
Lead	13	5.0	µg/L	5		SW-846 6020A	12/7/10	12/7/10 17:02	KSH
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	12/7/10	12/7/10 15:22	CWB
Nickel	ND	25	µg/L	5		SW-846 6020A	12/7/10	12/7/10 17:02	KSH
Selenium	ND	25	µg/L	5		SW-846 6020A	12/7/10	12/7/10 17:02	KSH
Silver	ND	2.5	µg/L	5		SW-846 6020A	12/7/10	12/7/10 17:02	KSH
Thallium	ND	1.0	µg/L	5		SW-846 6020A	12/7/10	12/7/10 17:02	KSH
Vanadium	ND	25	µg/L	5		SW-846 6020A	12/7/10	12/7/10 17:02	KSH
Zinc	75	50	µg/L	5		SW-846 6020A	12/7/10	12/7/10 17:02	KSH



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 02, 2020

FOR: Attn: Timothy Carr, LEP
 Down To Earth, LLC
 122 Church Street
 Naugatuck, CT 06770

Sample Information

Matrix: SOIL
 Location Code: DOWNDAS
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

04/23/20
 04/24/20

Time

14:30
 16:30

Laboratory Data

SDG ID: GCF79044
 Phoenix ID: CF79044

Project ID: PARCEL B 0 MAPLE ST NAUGATUCK
 Client ID: B.5-2/4-5`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		04/24/20	VT	SW846-%Solid
Extraction for PCB	Completed				04/24/20	S/B/V/T/KLSW3540C	

PCB (Soxhlet SW3540C)

PCB-1016	ND	370	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	04/28/20	SC	SW8082A

QA/QC Surrogates

% DCBP	104		%	10	04/28/20	SC	30 - 150 %
% DCBP (Confirmation)	102		%	10	04/28/20	SC	30 - 150 %
% TCMX	84		%	10	04/28/20	SC	30 - 150 %
% TCMX (Confirmation)	89		%	10	04/28/20	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.
If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 02, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 02, 2020

FOR: Attn: Timothy Carr, LEP
 Down To Earth, LLC
 122 Church Street
 Naugatuck, CT 06770

Sample Information

Matrix: SOIL
 Location Code: DOWNDAS
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

04/23/20
 04/24/20

Time

14:30
 16:30

Laboratory Data

SDG ID: GCF79044
 Phoenix ID: CF79045

Project ID: PARCEL B 0 MAPLE ST NAUGATUCK
 Client ID: B.5-2/7-8`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	97		%		04/24/20	VT	SW846-%Solid
Extraction for PCB	Completed				04/24/20	S/B/V/T/KLSW3540C	

PCB (Soxhlet SW3540C)

PCB-1016	ND	340	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1221	ND	340	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1232	ND	340	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1242	ND	340	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1248	ND	340	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1254	ND	340	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1260	ND	340	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1262	ND	340	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1268	ND	340	ug/Kg	10	04/28/20	SC	SW8082A

QA/QC Surrogates

% DCBP	100		%	10	04/28/20	SC	30 - 150 %
% DCBP (Confirmation)	99		%	10	04/28/20	SC	30 - 150 %
% TCMX	75		%	10	04/28/20	SC	30 - 150 %
% TCMX (Confirmation)	80		%	10	04/28/20	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

May 02, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 29, 2020

FOR: Attn: Timothy Carr, LEP
 Down To Earth, LLC
 122 Church Street
 Naugatuck, CT 06770

Sample Information

Matrix: SOIL
 Location Code: DOWNDAS
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

04/20/20
 04/21/20

Time

10:30
 15:50

Laboratory Data

SDG ID: GCF76552
 Phoenix ID: CF76561

Project ID: PARCEL B 0 MAPLE ST NAUGATUCK
 Client ID: B-5-2.5/3-4`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	65		%		04/21/20	VT	SW846-%Solid
Extraction for PCB	Completed				04/21/20	HH/KL/VT	SW3540C

PCB (Soxhlet SW3540C)

PCB-1016	ND	510	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1221	ND	510	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1232	ND	510	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1242	ND	510	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1248	ND	510	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1254	ND	510	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1260	ND	510	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1262	ND	510	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1268	ND	510	ug/Kg	10	04/22/20	SC	SW8082A

QA/QC Surrogates

% DCBP	88		%	10	04/22/20	SC	30 - 150 %
% DCBP (Confirmation)	82		%	10	04/22/20	SC	30 - 150 %
% TCMX	78		%	10	04/22/20	SC	30 - 150 %
% TCMX (Confirmation)	78		%	10	04/22/20	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

April 29, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 29, 2020

FOR: Attn: Timothy Carr, LEP
 Down To Earth, LLC
 122 Church Street
 Naugatuck, CT 06770

Sample Information

Matrix: SOIL
 Location Code: DOWNDAS
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

04/20/20
 04/21/20

Time

10:30
 15:50

Laboratory Data

SDG ID: GCF76552
 Phoenix ID: CF76595

Project ID: PARCEL B 0 MAPLE ST NAUGATUCK
 Client ID: B-5-2.5/7.8`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	85		%		04/21/20	VT	SW846-%Solid
Extraction for PCB	Completed				04/23/20	HH/VT/KL	SW3540C

PCB (Soxhlet SW3540C)

PCB-1016	ND	390	ug/Kg	10	04/25/20	SC	SW8082A	B
PCB-1221	ND	390	ug/Kg	10	04/25/20	SC	SW8082A	
PCB-1232	ND	390	ug/Kg	10	04/25/20	SC	SW8082A	
PCB-1242	ND	390	ug/Kg	10	04/25/20	SC	SW8082A	
PCB-1248	ND	390	ug/Kg	10	04/25/20	SC	SW8082A	
PCB-1254	ND	390	ug/Kg	10	04/25/20	SC	SW8082A	
PCB-1260	ND	390	ug/Kg	10	04/25/20	SC	SW8082A	
PCB-1262	ND	390	ug/Kg	10	04/25/20	SC	SW8082A	
PCB-1268	ND	390	ug/Kg	10	04/25/20	SC	SW8082A	

QA/QC Surrogates

% DCBP	101		%	10	04/25/20	SC	30 - 150 %
% DCBP (Confirmation)	99		%	10	04/25/20	SC	30 - 150 %
% TCMX	82		%	10	04/25/20	SC	30 - 150 %
% TCMX (Confirmation)	88		%	10	04/25/20	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

April 29, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 29, 2020

FOR: Attn: Timothy Carr, LEP
 Down To Earth, LLC
 122 Church Street
 Naugatuck, CT 06770

Sample Information

Matrix: SOIL
 Location Code: DOWNDAS
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

04/20/20
 04/21/20

Time

10:30
 15:50

Laboratory Data

SDG ID: GCF76552
 Phoenix ID: CF76596

Project ID: PARCEL B 0 MAPLE ST NAUGATUCK
 Client ID: B-5-2.500/7-8`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	82		%		04/21/20	VT	SW846-%Solid
Extraction for PCB	Completed				04/23/20	HH/VT/KL	SW3540C

PCB (Soxhlet SW3540C)

PCB-1016	ND	400	ug/Kg	10	04/24/20	SC	SW8082A	B
PCB-1221	ND	400	ug/Kg	10	04/24/20	SC	SW8082A	
PCB-1232	ND	400	ug/Kg	10	04/24/20	SC	SW8082A	
PCB-1242	ND	400	ug/Kg	10	04/24/20	SC	SW8082A	
PCB-1248	ND	400	ug/Kg	10	04/24/20	SC	SW8082A	
PCB-1254	ND	400	ug/Kg	10	04/24/20	SC	SW8082A	
PCB-1260	ND	400	ug/Kg	10	04/24/20	SC	SW8082A	
PCB-1262	ND	400	ug/Kg	10	04/24/20	SC	SW8082A	
PCB-1268	ND	400	ug/Kg	10	04/24/20	SC	SW8082A	

QA/QC Surrogates

% DCBP	71		%	10	04/24/20	SC	30 - 150 %
% DCBP (Confirmation)	67		%	10	04/24/20	SC	30 - 150 %
% TCMX	62		%	10	04/24/20	SC	30 - 150 %
% TCMX (Confirmation)	67		%	10	04/24/20	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

April 29, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 29, 2020

FOR: Attn: Timothy Carr, LEP
 Down To Earth, LLC
 122 Church Street
 Naugatuck, CT 06770

Sample Information

Matrix: SOIL
 Location Code: DOWNDAS
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

04/20/20
 04/21/20

Time

10:30
 15:50

Laboratory Data

SDG ID: GCF76552
 Phoenix ID: CF76562

Project ID: PARCEL B 0 MAPLE ST NAUGATUCK
 Client ID: B-5-2.5/13-14`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	61		%		04/21/20	VT	SW846-%Solid
Extraction for PCB	Completed				04/21/20	HH/KL/VT	SW3540C

PCB (Soxhlet SW3540C)

PCB-1016	ND	530	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1221	ND	530	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1232	ND	530	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1242	ND	530	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1248	ND	530	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1254	ND	530	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1260	ND	530	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1262	ND	530	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1268	ND	530	ug/Kg	10	04/22/20	SC	SW8082A

QA/QC Surrogates

% DCBP	59		%	10	04/22/20	SC	30 - 150 %
% DCBP (Confirmation)	69		%	10	04/22/20	SC	30 - 150 %
% TCMX	81		%	10	04/22/20	SC	30 - 150 %
% TCMX (Confirmation)	79		%	10	04/22/20	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

April 29, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 29, 2020

FOR: Attn: Timothy Carr, LEP
 Down To Earth, LLC
 122 Church Street
 Naugatuck, CT 06770

Sample Information

Matrix: SOIL
 Location Code: DOWNDAS
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

04/20/20
 04/21/20

Time

9:30
 15:50

Laboratory Data

SDG ID: GCF76552
 Phoenix ID: CF76567

Project ID: PARCEL B 0 MAPLE ST NAUGATUCK
 Client ID: C-2/3-4`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	83		%		04/21/20	VT	SW846-%Solid
Extraction for PCB	Completed				04/21/20	HH/KL/VT	SW3540C

PCB (Soxhlet SW3540C)

PCB-1016	ND	390	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1221	ND	390	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1232	ND	390	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1242	ND	390	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1248	ND	390	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1254	ND	390	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1260	ND	390	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1262	ND	390	ug/Kg	10	04/22/20	SC	SW8082A
PCB-1268	ND	390	ug/Kg	10	04/22/20	SC	SW8082A

QA/QC Surrogates

% DCBP	113		%	10	04/22/20	SC	30 - 150 %
% DCBP (Confirmation)	108		%	10	04/22/20	SC	30 - 150 %
% TCMX	98		%	10	04/22/20	SC	30 - 150 %
% TCMX (Confirmation)	100		%	10	04/22/20	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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Phyllis Shiller, Laboratory Director

April 29, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 29, 2020

FOR: Attn: Timothy Carr, LEP
 Down To Earth, LLC
 122 Church Street
 Naugatuck, CT 06770

Sample Information

Matrix: SOIL
 Location Code: DOWNDAS
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

04/20/20
 04/21/20

Time

9:30
 15:50

Laboratory Data

SDG ID: GCF76552
 Phoenix ID: CF76568

Project ID: PARCEL B 0 MAPLE ST NAUGATUCK
 Client ID: C-2/7-8`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	98		%		04/21/20	VT	SW846-%Solid
Extraction for PCB	Completed				04/22/20	HH/VT/KL	SW3540C

PCB (Soxhlet SW3540C)

PCB-1016	ND	330	ug/Kg	10	04/24/20	SC	SW8082A
PCB-1221	ND	330	ug/Kg	10	04/24/20	SC	SW8082A
PCB-1232	ND	330	ug/Kg	10	04/24/20	SC	SW8082A
PCB-1242	ND	330	ug/Kg	10	04/24/20	SC	SW8082A
PCB-1248	ND	330	ug/Kg	10	04/24/20	SC	SW8082A
PCB-1254	ND	330	ug/Kg	10	04/24/20	SC	SW8082A
PCB-1260	ND	330	ug/Kg	10	04/24/20	SC	SW8082A
PCB-1262	ND	330	ug/Kg	10	04/24/20	SC	SW8082A
PCB-1268	ND	330	ug/Kg	10	04/24/20	SC	SW8082A

QA/QC Surrogates

% DCBP	104		%	10	04/24/20	SC	30 - 150 %
% DCBP (Confirmation)	93		%	10	04/24/20	SC	30 - 150 %
% TCMX	99		%	10	04/24/20	SC	30 - 150 %
% TCMX (Confirmation)	99		%	10	04/24/20	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
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Phyllis Shiller, Laboratory Director

April 29, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 02, 2020

FOR: Attn: Timothy Carr, LEP
 Down To Earth, LLC
 122 Church Street
 Naugatuck, CT 06770

Sample Information

Matrix: SOIL
 Location Code: DOWNDAS
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

04/23/20
 04/24/20

Time

14:45
 16:30

Laboratory Data

SDG ID: GCF79044
 Phoenix ID: CF79082

Project ID: PARCEL B 0 MAPLE ST NAUGATUCK
 Client ID: C-2.5/2-4`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	85		%		04/24/20	VT	SW846-%Solid
Extraction for PCB	Completed				04/27/20	RB/KL/VT	SW3540C

PCB (Soxhlet SW3540C)

PCB-1016	ND	380	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1221	ND	380	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1232	ND	380	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1242	ND	380	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1248	ND	380	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1254	ND	380	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1260	ND	380	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1262	ND	380	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1268	ND	380	ug/Kg	10	04/28/20	SC	SW8082A

QA/QC Surrogates

% DCBP	105		%	10	04/28/20	SC	30 - 150 %
% DCBP (Confirmation)	101		%	10	04/28/20	SC	30 - 150 %
% TCMX	86		%	10	04/28/20	SC	30 - 150 %
% TCMX (Confirmation)	92		%	10	04/28/20	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

May 02, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 02, 2020

FOR: Attn: Timothy Carr, LEP
 Down To Earth, LLC
 122 Church Street
 Naugatuck, CT 06770

Sample Information

Matrix: SOIL
 Location Code: DOWNDAS
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

04/23/20
 04/24/20

Time

14:45
 16:30

Laboratory Data

SDG ID: GCF79044
 Phoenix ID: CF79083

Project ID: PARCEL B 0 MAPLE ST NAUGATUCK
 Client ID: C-2.5/8-9`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.50	0.50	mg/Kg	1	04/27/20	TH	SW6010D
Arsenic	6.9	1.0	mg/Kg	1	04/27/20	TH	SW6010D
Barium	230	0.50	mg/Kg	1	04/27/20	TH	SW6010D
Cadmium	0.81	0.50	mg/Kg	1	04/27/20	TH	SW6010D
Chromium	12.2	0.50	mg/Kg	1	04/27/20	TH	SW6010D
Mercury	0.65	0.09	mg/Kg	5	04/28/20	RS	SW7471B
Lead	576	0.50	mg/Kg	1	04/27/20	TH	SW6010D
Selenium	< 2.0	2.0	mg/Kg	1	04/27/20	TH	SW6010D
Percent Solid	70		%		04/24/20	VT	SW846-%Solid
Soil Extraction SVOA PAH	Completed				04/27/20	VV/MA	SW3545A
Extraction of CT ETPH	Completed				04/24/20	GG/MA	SW3545A
Mercury Digestion	Completed				04/28/20	RA/RA	SW7471B
Extraction for PCB	Completed				04/27/20	RB/KL/VT	SW3540C
Total Metals Digest	Completed				04/24/20	S/AG/MGF	SW3050B

TPH by GC (Extractable Products)

Ext. Petroleum H.C. (C9-C36)	ND	71	mg/Kg	1	04/25/20	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/25/20	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	66		%	1	04/25/20	JRB	50 - 150 %
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PCB (Soxhlet SW3540C)

PCB-1016	ND	470	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1221	ND	470	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1232	ND	470	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1242	ND	470	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1248	ND	470	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1254	ND	470	ug/Kg	10	04/28/20	SC	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1260	ND	470	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1262	ND	470	ug/Kg	10	04/28/20	SC	SW8082A
PCB-1268	ND	470	ug/Kg	10	04/28/20	SC	SW8082A
<u>QA/QC Surrogates</u>							
% DCBP	97		%	10	04/28/20	SC	30 - 150 %
% DCBP (Confirmation)	97		%	10	04/28/20	SC	30 - 150 %
% TCMX	82		%	10	04/28/20	SC	30 - 150 %
% TCMX (Confirmation)	87		%	10	04/28/20	SC	30 - 150 %
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
1,1,1-Trichloroethane	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	4.9	ug/Kg	1	04/25/20	JLI	SW8260C
1,1,2-Trichloroethane	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethane	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloroethene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
1,1-Dichloropropene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
1,2,3-Trichloropropane	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
1,2,4-Trimethylbenzene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
1,2-Dibromoethane	ND	7.0	ug/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichlorobenzene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloroethane	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
1,2-Dichloropropane	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichlorobenzene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
1,3-Dichloropropane	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
1,4-Dichlorobenzene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
2,2-Dichloropropane	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
2-Chlorotoluene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
2-Hexanone	ND	41	ug/Kg	1	04/25/20	JLI	SW8260C
2-Isopropyltoluene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
4-Chlorotoluene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
4-Methyl-2-pentanone	ND	41	ug/Kg	1	04/25/20	JLI	SW8260C
Acetone	ND	410	ug/Kg	1	04/25/20	JLI	SW8260C
Acrylonitrile	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Benzene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Bromobenzene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Bromochloromethane	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Bromodichloromethane	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Bromoform	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Bromomethane	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Carbon Disulfide	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Carbon tetrachloride	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Chlorobenzene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Chloroethane	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Chloroform	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Chloromethane	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,2-Dichloroethene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
cis-1,3-Dichloropropene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Dibromochloromethane	ND	4.9	ug/Kg	1	04/25/20	JLI	SW8260C
Dibromomethane	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Dichlorodifluoromethane	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Ethylbenzene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Hexachlorobutadiene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Isopropylbenzene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
m&p-Xylene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Methyl Ethyl Ketone	ND	49	ug/Kg	1	04/25/20	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	16	ug/Kg	1	04/25/20	JLI	SW8260C
Methylene chloride	ND	16	ug/Kg	1	04/25/20	JLI	SW8260C
Naphthalene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
n-Butylbenzene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
n-Propylbenzene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
o-Xylene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
p-Isopropyltoluene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
sec-Butylbenzene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Styrene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
tert-Butylbenzene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Tetrachloroethene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Tetrahydrofuran (THF)	ND	16	ug/Kg	1	04/25/20	JLI	SW8260C
Toluene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Total Xylenes	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
trans-1,2-Dichloroethene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
trans-1,3-Dichloropropene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	16	ug/Kg	1	04/25/20	JLI	SW8260C
Trichloroethene	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Trichlorofluoromethane	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
Trichlorotrifluoroethane	ND	16	ug/Kg	1	04/25/20	JLI	SW8260C
Vinyl chloride	ND	8.1	ug/Kg	1	04/25/20	JLI	SW8260C
<u>QA/QC Surrogates</u>							
% 1,2-dichlorobenzene-d4	102		%	1	04/25/20	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	04/25/20	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	04/25/20	JLI	70 - 130 %
% Toluene-d8	100		%	1	04/25/20	JLI	70 - 130 %
<u>Polynuclear Aromatic HC</u>							
2-Methylnaphthalene	ND	330	ug/Kg	1	04/28/20	AW	SW8270D
Acenaphthene	ND	330	ug/Kg	1	04/28/20	AW	SW8270D
Acenaphthylene	ND	330	ug/Kg	1	04/28/20	AW	SW8270D
Anthracene	ND	330	ug/Kg	1	04/28/20	AW	SW8270D
Benz(a)anthracene	ND	330	ug/Kg	1	04/28/20	AW	SW8270D
Benzo(a)pyrene	ND	330	ug/Kg	1	04/28/20	AW	SW8270D
Benzo(b)fluoranthene	ND	330	ug/Kg	1	04/28/20	AW	SW8270D
Benzo(ghi)perylene	ND	330	ug/Kg	1	04/28/20	AW	SW8270D
Benzo(k)fluoranthene	ND	330	ug/Kg	1	04/28/20	AW	SW8270D
Chrysene	ND	330	ug/Kg	1	04/28/20	AW	SW8270D
Dibenz(a,h)anthracene	ND	330	ug/Kg	1	04/28/20	AW	SW8270D
Fluoranthene	ND	330	ug/Kg	1	04/28/20	AW	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Fluorene	ND	330	ug/Kg	1	04/28/20	AW	SW8270D
Indeno(1,2,3-cd)pyrene	ND	330	ug/Kg	1	04/28/20	AW	SW8270D
Naphthalene	ND	330	ug/Kg	1	04/28/20	AW	SW8270D
Phenanthrene	ND	330	ug/Kg	1	04/28/20	AW	SW8270D
Pyrene	ND	330	ug/Kg	1	04/28/20	AW	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	62		%	1	04/28/20	AW	30 - 130 %
% Nitrobenzene-d5	53		%	1	04/28/20	AW	30 - 130 %
% Terphenyl-d14	79		%	1	04/28/20	AW	30 - 130 %
Field Extraction	Completed				04/23/20		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

May 02, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 02, 2020

FOR: Attn: Timothy Carr, LEP
 Down To Earth, LLC
 122 Church Street
 Naugatuck, CT 06770

Sample Information

Matrix: SOIL
 Location Code: DOWNDAS
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by:
 Received by: CP
 Analyzed by: see "By" below

Date

04/23/20
 04/24/20

Time

14:45
 16:30

Laboratory Data

SDG ID: GCF79044
 Phoenix ID: CF79084

Project ID: PARCEL B 0 MAPLE ST NAUGATUCK
 Client ID: C-2.5/10-11`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	75		%		04/24/20	VT	SW846-%Solid
Extraction for PCB	Completed				04/29/20	HH/KL	SW3540C

PCB (Soxhlet SW3540C)

PCB-1016	ND	440	ug/Kg	10	04/30/20	SC	SW8082A
PCB-1221	ND	440	ug/Kg	10	04/30/20	SC	SW8082A
PCB-1232	ND	440	ug/Kg	10	04/30/20	SC	SW8082A
PCB-1242	ND	440	ug/Kg	10	04/30/20	SC	SW8082A
PCB-1248	ND	440	ug/Kg	10	04/30/20	SC	SW8082A
PCB-1254	ND	440	ug/Kg	10	04/30/20	SC	SW8082A
PCB-1260	ND	440	ug/Kg	10	04/30/20	SC	SW8082A
PCB-1262	ND	440	ug/Kg	10	04/30/20	SC	SW8082A
PCB-1268	ND	440	ug/Kg	10	04/30/20	SC	SW8082A

QA/QC Surrogates

% DCBP	107		%	10	04/30/20	SC	30 - 150 %
% DCBP (Confirmation)	100		%	10	04/30/20	SC	30 - 150 %
% TCMX	86		%	10	04/30/20	SC	30 - 150 %
% TCMX (Confirmation)	91		%	10	04/30/20	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
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Phyllis Shiller, Laboratory Director

May 02, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 29, 2020

FOR: Attn: Timothy Carr, LEP
 Down To Earth, LLC
 122 Church Street
 Naugatuck, CT 06770

Sample Information

Matrix: SOIL
 Location Code: DOWNDAS
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

04/20/20
 04/21/20

Time

9:45
 15:50

Laboratory Data

SDG ID: GCF76552
 Phoenix ID: CF76571

Project ID: PARCEL B 0 MAPLE ST NAUGATUCK
 Client ID: C-3/3-4`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	95		%		04/21/20	VT	SW846-%Solid
Extraction for PCB	Completed				04/22/20	HH/VT/KL	SW3540C

PCB (Soxhlet SW3540C)

PCB-1016	ND	350	ug/Kg	10	04/23/20	SC	SW8082A
PCB-1221	ND	350	ug/Kg	10	04/23/20	SC	SW8082A
PCB-1232	ND	350	ug/Kg	10	04/23/20	SC	SW8082A
PCB-1242	ND	350	ug/Kg	10	04/23/20	SC	SW8082A
PCB-1248	ND	350	ug/Kg	10	04/23/20	SC	SW8082A
PCB-1254	ND	350	ug/Kg	10	04/23/20	SC	SW8082A
PCB-1260	ND	350	ug/Kg	10	04/23/20	SC	SW8082A
PCB-1262	ND	350	ug/Kg	10	04/23/20	SC	SW8082A
PCB-1268	ND	350	ug/Kg	10	04/23/20	SC	SW8082A

QA/QC Surrogates

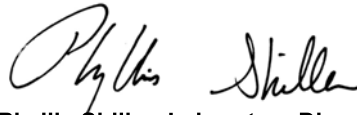
% DCBP	76		%	10	04/23/20	SC	30 - 150 %
% DCBP (Confirmation)	78		%	10	04/23/20	SC	30 - 150 %
% TCMX	83		%	10	04/23/20	SC	30 - 150 %
% TCMX (Confirmation)	82		%	10	04/23/20	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

April 29, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 29, 2020

FOR: Attn: Timothy Carr, LEP
 Down To Earth, LLC
 122 Church Street
 Naugatuck, CT 06770

Sample Information

Matrix: SOIL
 Location Code: DOWNDAS
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by:
 Received by: B
 Analyzed by: see "By" below

Date

04/20/20
 04/21/20

Time

9:45
 15:50

Laboratory Data

SDG ID: GCF76552
 Phoenix ID: CF76572

Project ID: PARCEL B 0 MAPLE ST NAUGATUCK
 Client ID: C-3/8-9`

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		04/21/20	VT	SW846-%Solid
Extraction for PCB	Completed				04/22/20	HH/VT/KL	SW3540C

PCB (Soxhlet SW3540C)

PCB-1016	ND	370	ug/Kg	10	04/23/20	SC	SW8082A
PCB-1221	ND	370	ug/Kg	10	04/23/20	SC	SW8082A
PCB-1232	ND	370	ug/Kg	10	04/23/20	SC	SW8082A
PCB-1242	ND	370	ug/Kg	10	04/23/20	SC	SW8082A
PCB-1248	ND	370	ug/Kg	10	04/23/20	SC	SW8082A
PCB-1254	ND	370	ug/Kg	10	04/23/20	SC	SW8082A
PCB-1260	ND	370	ug/Kg	10	04/23/20	SC	SW8082A
PCB-1262	ND	370	ug/Kg	10	04/23/20	SC	SW8082A
PCB-1268	ND	370	ug/Kg	10	04/23/20	SC	SW8082A

QA/QC Surrogates

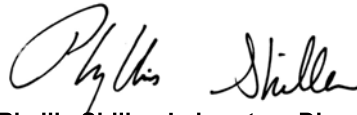
% DCBP	89		%	10	04/23/20	SC	30 - 150 %
% DCBP (Confirmation)	85		%	10	04/23/20	SC	30 - 150 %
% TCMX	89		%	10	04/23/20	SC	30 - 150 %
% TCMX (Confirmation)	93		%	10	04/23/20	SC	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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Phyllis Shiller, Laboratory Director

April 29, 2020

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 28, 2017

FOR: Attn: Pamela Lind
 Nobis Engineering, Inc
 122 Church Street
 Naugatuck CT 06770

Sample Information

Matrix: SOIL
 Location Code: NOBIS
 Rush Request: Standard
 P.O.#: 90341.02

Custody Information

Collected by: PL
 Received by: SW
 Analyzed by: see "By" below

Date

03/20/17
 03/21/17

Time

8:50
 16:01

Laboratory Data

SDG ID: GBX90556
 Phoenix ID: BX90576

Project ID: PARCELS A & B
 Client ID: TP-15N (1-2)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	03/22/17	TH	SW6010C
Arsenic	8.07	0.75	mg/Kg	1	03/22/17	TH	SW6010C
Barium	641	0.38	mg/Kg	1	03/22/17	TH	SW6010C
Cadmium	1.24	0.38	mg/Kg	1	03/22/17	TH	SW6010C
Chromium	14.0	0.38	mg/Kg	1	03/22/17	TH	SW6010C
Mercury	1.21	0.03	mg/Kg	1	03/22/17	MA	SW7471B
Lead	666	3.8	mg/Kg	10	03/23/17	LK	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	03/22/17	TH	SW6010C
Percent Solid	79		%		03/21/17	Q	SW846-%Solid
Mercury Digestion	Completed				03/22/17	W/W	SW7471B
Total Metals Digest	Completed				03/21/17	X/AG	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

March 28, 2017

Reviewed and Released by: Sarah Bell, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 28, 2017

FOR: Attn: Pamela Lind
 Nobis Engineering, Inc
 122 Church Street
 Naugatuck CT 06770

Sample Information

Matrix: SOIL
 Location Code: NOBIS
 Rush Request: Standard
 P.O.#: 90341.02

Custody Information

Collected by: PL
 Received by: SW
 Analyzed by: see "By" below

Date

03/20/17
 03/21/17

Time

8:54
 16:01

Laboratory Data

SDG ID: GBX90556
 Phoenix ID: BX90578

Project ID: PARCELS A & B
 Client ID: TP-15N (6-7)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	76		%		03/21/17	Q	SW846-%Solid
Soil Extraction for PCB	Completed				03/21/17	JC/V	SW3545A
Soil Extraction SVOA PAH	Completed				03/21/17	JJ/CKV	SW3545A

Polychlorinated Biphenyls

PCB-1016	ND	430	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1221	ND	430	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1232	ND	430	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1242	ND	430	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1248	ND	430	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1254	ND	430	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1260	ND	430	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1262	ND	430	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1268	ND	430	ug/Kg	10	03/23/17	AW	SW8082A

QA/QC Surrogates

% DCBP	69		%	10	03/23/17	AW	30 - 150 %
% TCMX	64		%	10	03/23/17	AW	30 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	300	ug/Kg	1	03/22/17	DD	SW8270D
Acenaphthene	ND	300	ug/Kg	1	03/22/17	DD	SW8270D
Acenaphthylene	ND	300	ug/Kg	1	03/22/17	DD	SW8270D
Anthracene	ND	300	ug/Kg	1	03/22/17	DD	SW8270D
Benz(a)anthracene	ND	300	ug/Kg	1	03/22/17	DD	SW8270D
Benzo(a)pyrene	ND	300	ug/Kg	1	03/22/17	DD	SW8270D
Benzo(b)fluoranthene	ND	300	ug/Kg	1	03/22/17	DD	SW8270D
Benzo(ghi)perylene	ND	300	ug/Kg	1	03/22/17	DD	SW8270D
Benzo(k)fluoranthene	ND	300	ug/Kg	1	03/22/17	DD	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	ND	300	ug/Kg	1	03/22/17	DD	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	03/22/17	DD	SW8270D
Fluoranthene	ND	300	ug/Kg	1	03/22/17	DD	SW8270D
Fluorene	ND	300	ug/Kg	1	03/22/17	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	1	03/22/17	DD	SW8270D
Naphthalene	ND	300	ug/Kg	1	03/22/17	DD	SW8270D
Phenanthrene	ND	300	ug/Kg	1	03/22/17	DD	SW8270D
Pyrene	ND	300	ug/Kg	1	03/22/17	DD	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	61		%	1	03/22/17	DD	30 - 130 %
% Nitrobenzene-d5	59		%	1	03/22/17	DD	30 - 130 %
% Terphenyl-d14	74		%	1	03/22/17	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

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Phyllis Shiller, Laboratory Director

March 28, 2017

Reviewed and Released by: Sarah Bell, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 28, 2017

FOR: Attn: Pamela Lind
 Nobis Engineering, Inc
 122 Church Street
 Naugatuck CT 06770

Sample Information

Matrix: SOIL
 Location Code: NOBIS
 Rush Request: Standard
 P.O.#: 90341.02

Custody Information

Collected by: PL
 Received by: SW
 Analyzed by: see "By" below

Date

03/20/17
 03/21/17

Time

8:56
 16:01

Laboratory Data

SDG ID: GBX90556
 Phoenix ID: BX90579

Project ID: PARCELS A & B
 Client ID: TP-15N (11-12)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	72		%		03/21/17	Q	SW846-%Solid
Soil Extraction for PCB	Completed				03/21/17	JC/V	SW3545A

Polychlorinated Biphenyls

PCB-1016	ND	460	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1221	ND	460	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1232	ND	460	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1242	ND	460	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1248	ND	460	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1254	ND	460	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1260	ND	460	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1262	ND	460	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1268	ND	460	ug/Kg	10	03/23/17	AW	SW8082A

QA/QC Surrogates

% DCBP	99		%	10	03/23/17	AW	30 - 150 %
% TCMX	94		%	10	03/23/17	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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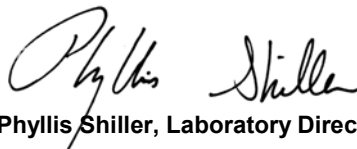
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Comments:

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Phyllis Shiller, Laboratory Director

March 28, 2017

Reviewed and Released by: Sarah Bell, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 28, 2017

FOR: Attn: Pamela Lind
 Nobis Engineering, Inc
 122 Church Street
 Naugatuck CT 06770

Sample Information

Matrix: SOIL
 Location Code: NOBIS
 Rush Request: Standard
 P.O.#: 90341.02

Custody Information

Collected by: PL
 Received by: SW
 Analyzed by: see "By" below

Date

03/20/17
 03/21/17

Time

10:17
 16:01

Laboratory Data

SDG ID: GBX90556
 Phoenix ID: BX90582

Project ID: PARCELS A & B
 Client ID: TP-15E (1.1-1.5)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	1.75	0.41	mg/Kg	1	03/22/17	TH	SW6010C
Arsenic	8.18	0.82	mg/Kg	1	03/22/17	TH	SW6010C
Barium	383	0.41	mg/Kg	1	03/22/17	TH	SW6010C
Cadmium	1.18	0.41	mg/Kg	1	03/22/17	TH	SW6010C
Chromium	13.3	0.41	mg/Kg	1	03/22/17	TH	SW6010C
Mercury	0.91	0.03	mg/Kg	1	03/22/17	MA	SW7471B
Lead	399	4.1	mg/Kg	10	03/23/17	LK	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	03/22/17	TH	SW6010C
Percent Solid	85		%		03/21/17	Q	SW846-%Solid
Mercury Digestion	Completed				03/22/17	W/W	SW7471B
Total Metals Digest	Completed				03/21/17	X/AG	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

March 28, 2017

Reviewed and Released by: Sarah Bell, Project Manager



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 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 28, 2017

FOR: Attn: Pamela Lind
 Nobis Engineering, Inc
 122 Church Street
 Naugatuck CT 06770

Sample Information

Matrix: SOIL
 Location Code: NOBIS
 Rush Request: Standard
 P.O.#: 90341.02

Custody Information

Collected by: PL
 Received by: SW
 Analyzed by: see "By" below

Date

03/20/17
 03/21/17

Time

10:24
 16:01

Laboratory Data

SDG ID: GBX90556
 Phoenix ID: BX90584

Project ID: PARCELS A & B
 Client ID: TP-15E (6-7)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	70		%		03/21/17	Q	SW846-%Solid
Soil Extraction for PCB	Completed				03/21/17	JC/V	SW3545A

Polychlorinated Biphenyls

PCB-1016	ND	470	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1221	ND	470	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1232	ND	470	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1242	ND	470	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1248	ND	470	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1254	ND	470	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1260	ND	470	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1262	ND	470	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1268	ND	470	ug/Kg	10	03/23/17	AW	SW8082A

QA/QC Surrogates

% DCBP	102		%	10	03/23/17	AW	30 - 150 %
% TCMX	94		%	10	03/23/17	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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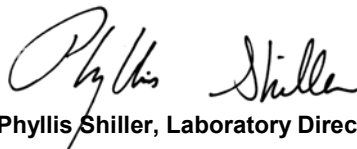
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

March 28, 2017

Reviewed and Released by: Sarah Bell, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 28, 2017

FOR: Attn: Pamela Lind
 Nobis Engineering, Inc
 122 Church Street
 Naugatuck CT 06770

Sample Information

Matrix: SOIL
 Location Code: NOBIS
 Rush Request: Standard
 P.O.#: 90341.02

Custody Information

Collected by: PL
 Received by: SW
 Analyzed by: see "By" below

Date

03/20/17
 03/21/17

Time

10:32
 16:01

Laboratory Data

SDG ID: GBX90556
 Phoenix ID: BX90586

Project ID: PARCELS A & B
 Client ID: TP-15E (12-13)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		03/21/17	Q	SW846-%Solid
Soil Extraction for PCB	Completed				03/21/17	JC/V	SW3545A
Soil Extraction SVOA PAH	Completed				03/21/17	JJ/CKV	SW3545A
Extraction of CT ETPH	Completed				03/21/17	CC/CKV	SW3545A

TPH by GC (Extractable Products)

Ext. Petroleum HC	200	59	mg/Kg	1	03/22/17	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	03/22/17	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	67		%	1	03/22/17	JRB	50 - 150 %
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Polychlorinated Biphenyls

PCB-1016	ND	400	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1221	ND	400	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1232	ND	400	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1242	ND	400	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1248	ND	400	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1254	ND	400	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1260	ND	400	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1262	ND	400	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1268	ND	400	ug/Kg	10	03/23/17	AW	SW8082A

QA/QC Surrogates

% DCBP	105		%	10	03/23/17	AW	30 - 150 %
% TCMX	100		%	10	03/23/17	AW	30 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	280	ug/Kg	1	03/22/17	DD	SW8270D
Acenaphthene	ND	280	ug/Kg	1	03/22/17	DD	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthylene	ND	280	ug/Kg	1	03/22/17	DD	SW8270D
Anthracene	ND	280	ug/Kg	1	03/22/17	DD	SW8270D
Benz(a)anthracene	370	280	ug/Kg	1	03/22/17	DD	SW8270D
Benzo(a)pyrene	330	280	ug/Kg	1	03/22/17	DD	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	03/22/17	DD	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	03/22/17	DD	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	03/22/17	DD	SW8270D
Chrysene	400	280	ug/Kg	1	03/22/17	DD	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	03/22/17	DD	SW8270D
Fluoranthene	730	280	ug/Kg	1	03/22/17	DD	SW8270D
Fluorene	ND	280	ug/Kg	1	03/22/17	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	03/22/17	DD	SW8270D
Naphthalene	ND	280	ug/Kg	1	03/22/17	DD	SW8270D
Phenanthrene	550	280	ug/Kg	1	03/22/17	DD	SW8270D
Pyrene	660	280	ug/Kg	1	03/22/17	DD	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	72		%	1	03/22/17	DD	30 - 130 %
% Nitrobenzene-d5	70		%	1	03/22/17	DD	30 - 130 %
% Terphenyl-d14	80		%	1	03/22/17	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

March 28, 2017

Reviewed and Released by: Sarah Bell, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 28, 2017

FOR: Attn: Pamela Lind
 Nobis Engineering, Inc
 122 Church Street
 Naugatuck CT 06770

Sample Information

Matrix: SOIL
 Location Code: NOBIS
 Rush Request: Standard
 P.O.#: 90341.02

Custody Information

Collected by: PL
 Received by: SW
 Analyzed by: see "By" below

Date

03/20/17
 03/21/17

Time

9:58
 16:01

Laboratory Data

SDG ID: GBX90556
 Phoenix ID: BX90587

Project ID: PARCELS A & B
 Client ID: TP-15S (1-1.7)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	03/22/17	TH	SW6010C
Arsenic	3.88	0.81	mg/Kg	1	03/22/17	TH	SW6010C
Barium	353	0.41	mg/Kg	1	03/22/17	TH	SW6010C
Cadmium	1.08	0.41	mg/Kg	1	03/22/17	TH	SW6010C
Chromium	15.1	0.41	mg/Kg	1	03/22/17	TH	SW6010C
Mercury	0.93	0.03	mg/Kg	1	03/22/17	MA	SW7471B
Lead	333	4.1	mg/Kg	10	03/23/17	LK	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	03/22/17	TH	SW6010C
Percent Solid	82		%		03/21/17	Q	SW846-%Solid
Mercury Digestion	Completed				03/22/17	W/W	SW7471B
Total Metals Digest	Completed				03/21/17	X/AG	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

March 28, 2017

Reviewed and Released by: Sarah Bell, Project Manager



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 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 28, 2017

FOR: Attn: Pamela Lind
 Nobis Engineering, Inc
 122 Church Street
 Naugatuck CT 06770

Sample Information

Matrix: SOIL
 Location Code: NOBIS
 Rush Request: Standard
 P.O.#: 90341.02

Custody Information

Collected by: PL
 Received by: SW
 Analyzed by: see "By" below

Date

03/20/17
 03/21/17

Time

10:06
 16:01

Laboratory Data

SDG ID: GBX90556
 Phoenix ID: BX90589

Project ID: PARCELS A & B
 Client ID: TP-15S (6.6-7.4)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		03/21/17	Q	SW846-%Solid
Soil Extraction for PCB	Completed				03/21/17	JC/V	SW3545A

Polychlorinated Biphenyls

PCB-1016	ND	370	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1221	ND	370	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1232	ND	370	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1242	ND	370	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1248	ND	370	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1254	ND	370	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1260	ND	370	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1262	ND	370	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1268	ND	370	ug/Kg	10	03/23/17	AW	SW8082A

QA/QC Surrogates

% DCBP	113		%	10	03/23/17	AW	30 - 150 %
% TCMX	96		%	10	03/23/17	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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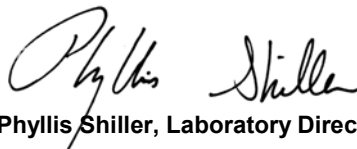
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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March 28, 2017

Reviewed and Released by: Sarah Bell, Project Manager



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 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 28, 2017

FOR: Attn: Pamela Lind
 Nobis Engineering, Inc
 122 Church Street
 Naugatuck CT 06770

Sample Information

Matrix: SOIL
 Location Code: NOBIS
 Rush Request: Standard
 P.O.#: 90341.02

Custody Information

Collected by: PL
 Received by: SW
 Analyzed by: see "By" below

Date

03/20/17
 03/21/17

Time

10:14
 16:01

Laboratory Data

SDG ID: GBX90556
 Phoenix ID: BX90591

Project ID: PARCELS A & B
 Client ID: TP-15S (12-12.6)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	70		%		03/21/17	Q	SW846-%Solid
Soil Extraction for PCB	Completed				03/21/17	JC/V	SW3545A
Soil Extraction SVOA PAH	Completed				03/21/17	JJ/CKV	SW3545A
Extraction of CT ETPH	Completed				03/21/17	CC/CKV	SW3545A

TPH by GC (Extractable Products)

Ext. Petroleum HC	420	70	mg/Kg	1	03/22/17	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	03/22/17	JRB	CTETPH 8015D

QA/QC Surrogates

% n-Pentacosane	57		%	1	03/22/17	JRB	50 - 150 %
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Polychlorinated Biphenyls

PCB-1016	ND	470	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1221	ND	470	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1232	ND	470	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1242	ND	470	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1248	ND	470	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1254	ND	470	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1260	ND	470	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1262	ND	470	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1268	ND	470	ug/Kg	10	03/23/17	AW	SW8082A

QA/QC Surrogates

% DCBP	98		%	10	03/23/17	AW	30 - 150 %
% TCMX	97		%	10	03/23/17	AW	30 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	330	ug/Kg	1	03/22/17	DD	SW8270D
Acenaphthene	ND	330	ug/Kg	1	03/22/17	DD	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthylene	ND	330	ug/Kg	1	03/22/17	DD	SW8270D
Anthracene	ND	330	ug/Kg	1	03/22/17	DD	SW8270D
Benz(a)anthracene	1200	330	ug/Kg	1	03/22/17	DD	SW8270D
Benzo(a)pyrene	1200	330	ug/Kg	1	03/22/17	DD	SW8270D
Benzo(b)fluoranthene	1200	330	ug/Kg	1	03/22/17	DD	SW8270D
Benzo(ghi)perylene	810	330	ug/Kg	1	03/22/17	DD	SW8270D
Benzo(k)fluoranthene	1100	330	ug/Kg	1	03/22/17	DD	SW8270D
Chrysene	1700	330	ug/Kg	1	03/22/17	DD	SW8270D
Dibenz(a,h)anthracene	ND	330	ug/Kg	1	03/22/17	DD	SW8270D
Fluoranthene	3500	330	ug/Kg	1	03/22/17	DD	SW8270D
Fluorene	ND	330	ug/Kg	1	03/22/17	DD	SW8270D
Indeno(1,2,3-cd)pyrene	840	330	ug/Kg	1	03/22/17	DD	SW8270D
Naphthalene	ND	330	ug/Kg	1	03/22/17	DD	SW8270D
Phenanthrene	1400	330	ug/Kg	1	03/22/17	DD	SW8270D
Pyrene	3100	330	ug/Kg	1	03/22/17	DD	SW8270D
<u>QA/QC Surrogates</u>							
% 2-Fluorobiphenyl	69		%	1	03/22/17	DD	30 - 130 %
% Nitrobenzene-d5	67		%	1	03/22/17	DD	30 - 130 %
% Terphenyl-d14	71		%	1	03/22/17	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
 QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

March 28, 2017

Reviewed and Released by: Sarah Bell, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 28, 2017

FOR: Attn: Pamela Lind
 Nobis Engineering, Inc
 122 Church Street
 Naugatuck CT 06770

Sample Information

Matrix: SOIL
 Location Code: NOBIS
 Rush Request: Standard
 P.O.#: 90341.02

Custody Information

Collected by: PL
 Received by: SW
 Analyzed by: see "By" below

Date

03/20/17
 03/21/17

Time

9:21
 16:01

Laboratory Data

SDG ID: GBX90556
 Phoenix ID: BX90592

Project ID: PARCELS A & B
 Client ID: TP-15W (1-1.8)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.46	0.46	mg/Kg	1	03/22/17	TH	SW6010C
Arsenic	4.69	0.93	mg/Kg	1	03/22/17	TH	SW6010C
Barium	943	0.46	mg/Kg	1	03/22/17	TH	SW6010C
Cadmium	1.71	0.46	mg/Kg	1	03/22/17	TH	SW6010C
Chromium	15.2	0.46	mg/Kg	1	03/22/17	TH	SW6010C
Mercury	1.82	0.16	mg/Kg	1	03/22/17	MA	SW7471B
Lead	823	4.6	mg/Kg	10	03/23/17	LK	SW6010C
Selenium	< 1.9	1.9	mg/Kg	1	03/22/17	TH	SW6010C
Percent Solid	74		%		03/21/17	Q	SW846-%Solid
Mercury Digestion	Completed				03/22/17	W/W	SW7471B
Total Metals Digest	Completed				03/21/17	X/AG	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

March 28, 2017

Reviewed and Released by: Sarah Bell, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 28, 2017

FOR: Attn: Pamela Lind
 Nobis Engineering, Inc
 122 Church Street
 Naugatuck CT 06770

Sample Information

Matrix: SOIL
 Location Code: NOBIS
 Rush Request: Standard
 P.O.#: 90341.02

Custody Information

Collected by: PL
 Received by: SW
 Analyzed by: see "By" below

Date

03/20/17
 03/21/17

Time

9:53
 16:01

Laboratory Data

SDG ID: GBX90556
 Phoenix ID: BX90595

Project ID: PARCELS A & B
 Client ID: TP-15W (6-7)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		03/21/17	Q	SW846-%Solid
Soil Extraction for PCB	Completed				03/21/17	JC/V	SW3545A

Polychlorinated Biphenyls

PCB-1016	ND	350	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1221	ND	350	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1232	ND	350	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1242	ND	350	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1248	ND	350	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1254	ND	350	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1260	ND	350	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1262	ND	350	ug/Kg	10	03/23/17	AW	SW8082A
PCB-1268	ND	350	ug/Kg	10	03/23/17	AW	SW8082A

QA/QC Surrogates

% DCBP	88		%	10	03/23/17	AW	30 - 150 %
% TCMX	80		%	10	03/23/17	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

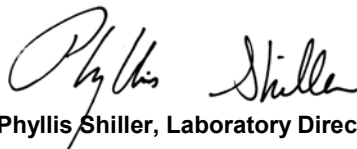
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

March 28, 2017

Reviewed and Released by: Sarah Bell, Project Manager



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 28, 2017

FOR: Attn: Pamela Lind
 Nobis Engineering, Inc
 122 Church Street
 Naugatuck CT 06770

Sample Information

Matrix: SOIL
 Location Code: NOBIS
 Rush Request: Standard
 P.O.#: 90341.02

Custody Information

Collected by: PL
 Received by: SW
 Analyzed by: see "By" below

Date

03/20/17
 03/21/17

Time

9:36
 16:01

Laboratory Data

SDG ID: GBX90556
 Phoenix ID: BX90597

Project ID: PARCELS A & B
 Client ID: TP-15W (12-13)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	88		%		03/21/17	Q	SW846-%Solid
Soil Extraction for PCB	Completed				03/21/17	JC/V	SW3545A

Polychlorinated Biphenyls

PCB-1016	ND	370	ug/Kg	10	03/22/17	AW	SW8082A
PCB-1221	ND	370	ug/Kg	10	03/22/17	AW	SW8082A
PCB-1232	ND	370	ug/Kg	10	03/22/17	AW	SW8082A
PCB-1242	ND	370	ug/Kg	10	03/22/17	AW	SW8082A
PCB-1248	ND	370	ug/Kg	10	03/22/17	AW	SW8082A
PCB-1254	ND	370	ug/Kg	10	03/22/17	AW	SW8082A
PCB-1260	ND	370	ug/Kg	10	03/22/17	AW	SW8082A
PCB-1262	ND	370	ug/Kg	10	03/22/17	AW	SW8082A
PCB-1268	ND	370	ug/Kg	10	03/22/17	AW	SW8082A

QA/QC Surrogates

% DCBP	76		%	10	03/22/17	AW	30 - 150 %
% TCMX	69		%	10	03/22/17	AW	30 - 150 %

APPENDIX 4
STANDARD OPERATING PROCEDURES

STANDARD OPERATING PROCEDURE

DECONTAMINATION OF PCB SURFACES

OBJECTIVE

To describe the procedures to be followed when decontaminating materials and equipment generated during routine PCB sampling, remediation and/or handling activities. This Standard Operating Procedure (SOP) was developed to ensure that decontamination is conducted in compliance with applicable Toxic Substances Control Act (TSCA) requirements. Additionally, if decontamination is performed properly, materials and equipment can, in some instances, be re-used. This SOP provides procedures for the decontamination of the following re-usable items that could be generated during PCB remediation activities: (1) sampling or remediation equipment or tools; (2) personal protective equipment (PPE); (3) vehicles and heavy equipment used for the loading and removal of PCB remediation waste; and (4) containers used to transport PCB remediation waste on-site. This SOP also specifies decontamination methods, cleanup levels, and disposal methods for materials generated during decontamination activities.

DECONTAMINATE OR DISPOSE

- Cleanup materials generated during PCB remediation waste activities must either be decontaminated in accordance with TSCA and this SOP, or shipped to a TSCA-approved facility for proper disposal.
- TSCA defines two types of decontamination: measurement-based decontamination and self-implementing decontamination. The type of decontamination chosen depends on the material to be decontaminated. The following sections describe the requirements for each.

DECONTAMINATION METHODS

Measurement-based decontamination involves decontaminating materials and then sampling or measuring the decontaminated materials to ensure that remaining PCB levels comply with levels specified in the regulations. Self-implementing decontamination (as opposed to measurement based decontamination) means using specific decontamination procedures specified in the regulations. The following decontamination methods can be used to decontaminate liquids, concrete, or non-porous surfaces:

- Chopping (including wire chopping);
- Distilling;
- Filtering;
- Oil/Water Separation;
- Spraying;
- Soaking;
- Wiping;
- Stripping of insulation;
- Scraping;
- Scarification; and
- Use of abrasives or solvents.

Table 1 describes the decontamination standards for measurement-based and self-implementing decontamination methods, organized by type of material to be decontaminated.

TABLE 1. DECONTAMINATION METHODS

TYPE OF MATERIAL	SPECIFIC MATERIAL TO BE DECONTAMINATED	DECONTAMINATION METHOD	TSCA DECONTAMINATION LEVEL
Water and Liquids	Water for non-contact use in a closed system where there are no releases.	One of the methods described in Section 5.1	<200 micrograms per liter ($\mu\text{g/L}$ or ppb) PCBs (see 40 CFR §761.79(b)(1))
	Water discharged to treatment works or to navigable waters	One of the methods described in Section 5.1	< 3 ppb PCBs, or a PCB discharge limit specified in a NPDES permit (see 40 CFR §761.79(b)(1))
	Water for unrestricted use	One of the methods described in Section 5.1	< 0.5 ppb ($\mu\text{g/L}$) PCBs (see 40 CFR §761.79(b)(2))
	Organic liquids and non-aqueous liquids containing PCBs	One of the methods described in Section 5.1	< 2 milligrams per liter (mg/L or ppm) PCBs (see 40 CFR §761.79(b)(2))
Non-Porous Surfaces	Non-porous surfaces previously in contact with liquid PCBs at any concentration where no free-flowing liquids are currently present	One of the methods described in Section 5.1	≤ 10 micrograms per 100 square centimeters ($\mu\text{g}/100\text{ cm}^2$) PCBs (see 40 CFR §761.79(b)(3)(i)(A)) Must be sampled and measured in accordance with specific TSCA requirements
	Non-porous surfaces in contact with non-liquid PCBs (including non-porous surfaces covered with a porous surface, such as paint or coating on metal)	One of the methods described in Section 5.1	Cleaning to the National Association of Corrosion Engineers' (NACE) Visual Standard No. 2, Near-White Blast Cleaned Surface Finish. Compliance with standard No. 2 must be verified by visually inspecting all cleaned areas. (see 40 CFR §761.79(b)(3)(i)(B))
Porous Surfaces	Concrete if decontamination is commenced within 72 hours of the initial spill of PCBs to the concrete	One of the methods described in Section 5.1	$\leq 10\ \mu\text{g}/100\text{ cm}^2$ as measured by a standard wipe test (see 40 CFR §761.123)
	Porous surface other than concrete where decontamination is commenced within 72 hours of the spill; and non-porous surfaces covered with a porous surface	Obtain an alternative decontamination approval (see 40 CFR §761.79 (h))	

TYPE OF MATERIAL	SPECIFIC MATERIAL TO BE DECONTAMINATED	DECONTAMINATION METHOD	TSCA DECONTAMINATION LEVEL
PCB Container	PCB Container	Flush the internal surface of the container three times with a solvent containing <500 ppm PCBs. Each rinse must use a volume of the flushing solvent equal to approximately 10% of the capacity of the PCB container. In other words, if you are rinsing out a 55-gallon drum, you must rinse three times and use at least 5.5 gallons of solvent during each rinse	Self-implementing (see 40 CFR §761.79(c)(1))
Equipment, Tools, Etc.	Movable equipment, tools, and sampling equipment that is contaminated with PCBs	Use one of the following methods: 1. Swabbing surfaces that have contacted PCBs with a solvent; 2. Double wash/rinse per 40 CFR §761 Subpart S; or 3. Another applicable decontamination procedure specified in the regulations (e.g. NACE Visual Standard No. 2, Near-White Blast Cleaned Surface Finish).	Self-implementing (see 40 CFR §761.79(c)(2))

SUMMARY OF 40 CFR SUBPART S – DOUBLE WASH/RINSE METHOD FOR DECONTAMINATING NON-POROUS SURFACES

- This procedure is for effectively removing PCBs from **Non-Porous Surfaces**
- This procedure includes two washing steps and two rinsing steps. The type of step used depends on whether the contaminated surface was relatively clean prior to the release or whether the surface was coated or covered with dust, dirt, grime, grease, or another absorbent material.
- Cleanup equipment used must consist of scrubbers and absorbent pads that meet the following criteria:
 - they are not dissolved by the solvents or cleaners used;
 - they do not shred, crumble, or leave visible fragments on the surface;
 - scrubbers and absorbent pads used to wash contaminated surfaces must not be reused;
 - if they are used for rinsing, they must not contain ≥ 2 ppm PCBs;
 - if they are used in the second rinse of contaminated surfaces, they may be reused to wash contaminated surfaces.

Table 2 describes the double-wash/rinse procedure for surfaces that do not appear dusty or grimy before a spill, such as glass, automobile surfaces, newly-poured concrete, and desk tops.

TABLE 2. DOUBLE WASH/RINSE PROCEDURE FOR “CLEAN” SURFACES

STEP	PROCEDURE	NOTES
Pre-Cleaning the Surface	Thoroughly wipe or mop the entire surface with absorbent paper or cloth until no liquid is visible on the surface.	Pre-cleaning is only necessary if PCB-containing liquid is visible on the surface to be cleaned.
First Wash	<ol style="list-style-type: none"> 1. Cover the entire surface with organic solvent (in which PCBs are soluble to at least 5% by weight). 2. Scrub rough surfaces with a scrub brush or disposable scrubbing pad and solvent such that each 900 cm² (1 square foot) of the surface is always very wet for 1 minute. 3. Wipe smooth surfaces with a solvent-soaked, disposable absorbent pad such that each 900 cm² (1 ft²) is wiped for 1 minute. Any surface < 1 ft² must also be wiped for 1 minute. 4. Wipe, mop, and/or sorb the solvent onto absorbent material until no visible traces of the solvent remain. 	Ensure that any runoff solvent is collected for proper disposal.
First Rinse	<ol style="list-style-type: none"> 1. Wet the surface with clean rinse solvent such that the entire surface is very wet for 1 minute. 2. Wipe the residual solvent off the drained surface using a clean, disposable absorbent pad until no liquid is visible on the surface. 	Ensure that solvent from the surface is drained and contained.
Second Wash	Repeat the wash (described above).	The rinse solvent from the first rinse (above) may be used.
Second Rinse	Repeat the rinse (described above).	

Table 3 describes the double-wash/rinse procedure for surfaces coated or covered with dust, dirt, grime, grease, or another absorbent material.

TABLE 3. DOUBLE WASH/RINSE PROCEDURE FOR “DIRTY” SURFACES

Step	Procedure	Notes
Pre-Cleaning the Surface	Thoroughly wipe or mop the entire surface with absorbent paper or cloth until no liquid is visible on the surface.	Pre-cleaning is only necessary if PCB-containing liquid is visible on the surface to be cleaned.
First Wash	<ol style="list-style-type: none"> 1. Cover the entire surface with concentrated or industrial strength detergent or non-ionic surfactant solution. 2. Scrub rough surfaces with a scrub brush or scrubbing pad, adding cleaning solution such that the surface is always very wet (each 900 cm² (1 ft²) is washed for 1 minute. 3. Wipe smooth surfaces with a cleaning solution-soaked dis-posable absorbent pad such that each 900 cm² (1 ft²) is wiped for 1 minute. Wash any surface < 1 ft² for 1 minute. 4. Mop up or absorb the residual cleaner solution and suds with a clean, disposable absorbent pad until the surface appears dry. This cleaning should remove any residual dirt, dust, grime, or other absorbent materials left on the surface during the first wash. 	Ensure that all cleaning solutions are contained and collected for proper disposal.
First Rinse	<ol style="list-style-type: none"> 1. Rinse off the wash solution with 1 gallon of clean water per square foot and capture the rinse water. 2. Mop up the wet surface with a clean, disposable, absorbent pad until the surface appears dry. 	
Second Wash	Follow the procedure for the First Wash described in Table 2, above.	
Second Rinse	Follow the procedure for the First Rinse described in Table 2, above.	

- All solvents and cleaners must be captured for reuse, decontamination, or proper disposal. Clean organic solvents contain < 2 ppm PCBs, and clean water contains < 3 ppb PCBs. A solvent may be reused provided its PCB concentration is < 50 ppm. Solvents for reuse must be stored in accordance with 40 CFR § 761.35.
- Equipment used in the double wash/rinse procedures can be reused or decontaminated. Decontamination should follow TSCA procedures (as described in this SOP). Equipment for reuse must be stored in accordance with 40 CFR § 761.35.
- Equipment, solvents, cleaners, and absorbent materials stored for disposal must be stored in accordance with 40 C.F.R § 761.65.

USING SOLVENTS FOR DECONTAMINATION

The solubility of PCBs in any solvent used for decontamination must be 5% or more by weight. Solvents can be re-used for PCB decontamination provided the concentration of PCBs in the solvent is < 50 ppm.

ALTERNATIVE DECONTAMINATION METHODS

If other decontamination methods are used, prior approval must be obtained from EPA Region 1. A written application must describe the material to be decontaminated and the proposed

decontamination method, and must demonstrate that the proposed method is capable of decontaminating the material to TSCA levels. Interactions and communications with personnel at EPA Region 1 should only be done by the EHS Manager.

EPA may request additional information necessary to evaluate the alternative decontamination method. EPA will then issue a written decision indicating if the proposed method is acceptable.

MANAGEMENT OF DECONTAMINATION WASTES AND RESIDUES

Wastes and residues generated during PCB decontamination activities must be managed in accordance with specific requirements. Table 4 summarizes the management and disposal requirements for decontamination wastes. As specified in SOP E-1, Waste Characterization and Disposal, the EHS Manager is responsible for approving all waste profiles and for properly characterizing all waste streams in accordance with applicable federal, state, and local requirements.

TABLE 4. DISPOSAL OF DECONTAMINATION WASTES AND RESIDUES

DECONTAMINATION WASTE/RESIDUE	MANAGEMENT/DISPOSAL
All decontamination wastes and residues.	Disposal method depends on the existing PCB concentration of the waste.
Distillation bottoms or residues and filter media.	Regulated for disposal as PCB Remediation Waste.
PCBs physically separated from regulated waste during chopping, shredding, scraping, abrading, or oil/water separation, as opposed to solvent rinsing and soaking.	Regulated for disposal at their original concentration.
Hydrocarbon solvent used or reused for decontamination that contains <50 ppm PCBs.	Must be burned and marketed in accordance with the requirements for used oil per 40 CFR § 761.20(e), disposed in accordance with 40 CFR § 761.60(a) or (e), or decontaminated.
Chlorinated solvent at any PCB concentration used for decontamination.	Must be disposed of in an incinerator operating in compliance with 40 CFR §761.70 or decontaminated.
Other solvents ≥ 50 ppm PCBs.	Must be disposed of in accordance with 40 CFR § 761.60(a) or de-contaminated.
Non-liquid cleaning materials and PPE at any PCB concentration, including non-porous surfaces and other non-liquid materials such as rags, gloves, booties, other disposable PPE, and similar materials resulting from decontamination.	Must be decontaminated or disposed of at: 1. A facility permitted, licensed, or registered by a State to manage municipal solid waste subject to 40 CFR Part 258. 2. A facility permitted, licensed, or registered by a State to manage non-municipal non-hazardous waste subject to 40 CFR § 257.5 through 257.30. 3. A permitted hazardous waste landfill. 4. An approved PCB disposal facility.

EXPOSURE AND RELEASES

Persons conducting PCB decontamination activities must: (1) take the necessary actions to prevent releases to the environment from the decontamination area; and (2) wear or use protective clothing or equipment to protect against dermal contact or inhalation of PCBs or materials containing PCBs.

SELECTED REGULATIONS

The following is a list of portions of 40 CFR Part 761 (Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution in Commerce, and Use Prohibitions) that pertain to PCB decontamination requirements:

- § 761.3 Definitions
- § 761.61 PCB remediation waste
- § 761.79 Decontamination standards and procedures
- Subpart P—Sampling Non-Porous Surfaces for Measurement-Based Use, Reuse, and On-Site or Off-Site Disposal Under §761.61(a)(6) and Decontamination Under §761.79(b)(3)
- Subpart Q—Self-Implementing Alternative Extraction and Chemical Analysis Procedures for Non-liquid PCB Remediation Waste Samples
- Subpart R—Sampling Non-Liquid, Non-Metal PCB Bulk Product Waste for Purposes of Characterization for PCB Disposal in Accordance With §761.62, and Sampling PCB Remediation Waste Destined for Off-Site Disposal, in Accordance With §761.61
- Subpart S—Double Wash/Rinse Method for Decontaminating Non-Porous Surfaces

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 1
5 Post Office Square, Suite 100
Boston, MA 02109-3912



**STANDARD OPERATING PROCEDURE FOR SAMPLING POROUS
SURFACES FOR POLYCHLORINATED BIPHENYLS (PCBs)**

May 2011



SDMS DocID 484692

**STANDARD OPERATING PROCEDURE
FOR SAMPLING POROUS SURFACES
FOR POLYCHLORINATED BIPHENYLS (PCBs)**

**The Office of Environmental Measurement and Evaluation
EPA New England – Region 1
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Attachments:

- Example of Custody Seal and Sample Label
- Example of Chain of Custody Form

1.0 Scope and Application

1.1 This Standard Operating Procedure (SOP) is suitable for collection of a porous matrix sample for analysis of Polychlorinated Biphenyls (PCBs).

1.2 This SOP describes sampling techniques for both hard and soft porous surfaces.

1.2.1 Hard surfaces, and most soft surfaces, can be sampled using an impact hammer drill to generate a uniform, finely ground, powder to be extracted and analyzed for PCBs. This procedure is primarily geared at providing enough sample quantity for two analyses. Hard porous surfaces include concrete, brick, asphalt, cement, sandstone, limestone, unglazed ceramics, and other possible PCB suspected material. This procedure may also be used on other softer porous surfaces, such as wood.

1.2.2 Soft surfaces can be sampled using a chisel or sharp knife to generate a representative sample to be extracted and analyzed for PCBs. Soft porous surfaces include wood, wall plasterboard, low density plastics, rubber, caulking, and other PCB suspected material.

1.3 This SOP provides for collection of surface samples (0 – 0.5 inches) and delineation of PCB contamination throughout the core of the porous surface. The procedure can be used to sample the porous surface at distinctly different depth zones.

2.0 Method Summary

A one-inch or other sized diameter carbide drill bit is used in a rotary impact hammer drill to generate a fine powder, or other representative sample, suitable for extraction and analysis of PCBs from porous surfaces. This method also allows the use of chisels or knives for the collection of samples from soft porous surfaces for PCB analysis.

3.0 Definitions

3.1 Field/Bottle Blank: A sample container of the same lot as the containers used for the environmental samples. This evaluates PCB contamination introduced from the sample container(s) from a common lot.

3.2 Equipment/Rinse/Rinsate Blanks: A sample that is collected by pouring hexane over the sample collection equipment after decontamination and before sample collection. The sample is collected in the appropriate sample container identical to the sample containers. This represents background contamination resulting from the field equipment, sampling procedure, sample container, and shipment.

- 3.3 Field Replicates/Duplicates: Two or more samples collected at the same sampling location. Field replicates should be samples collected side by side. Field replicates represent the precision of the whole method, site heterogeneity, field sampling, and the laboratory analysis.
- 3.4 Field Split Samples: Two or more representative subsamples taken from one environmental sample in the field. Prior to splitting, the environmental sample is homogenized to correct for sample heterogeneity that would adversely impact data comparability. Field split samples are usually analyzed by different laboratories (interlaboratory comparison) or by the same laboratory (intralaboratory comparison). Field splits are used to assess sample handling procedures from field to laboratory and laboratory comparability.
- 3.5 Laboratory Quality Samples: Additional samples that will be collected for the laboratory's quality control program: matrix spike, matrix spike duplicate, laboratory duplicates, etc.
- 3.6 Proficiency Testing (PT)/Performance Evaluation (PE) Sample: A sample, the composition of which is unknown to the laboratory or analyst, provided to the analyst or laboratory to assess the capability to produce results within acceptable criteria. This is optional depending on the data quality objectives. If possible, it is recommended that the PE sample be of similar matrix as the porous surface(s) being sampled.
- 3.7 Porous Surface: Any surface that allows PCBs to penetrate or pass into itself including, but not limited to, paint or coating on metal; corroded metal; fibrous glass or glass wool; unglazed ceramics; ceramics with porous glaze; porous building stone such as sandstone, travertine, limestone, or coral rock; low density plastics such as Styrofoam and low density polyethylene; coated (varnished or painted) or uncoated wood; painted or unpainted concrete or cement; plaster; plasterboard; wallboard; rubber; caulking; fiberboard; chipboard; asphalt; or tar paper.
- 3.8 Shipping Container Temperature Blank: A water sample that is transported to the laboratory to measure the temperature of the samples in the cooler.
- 4.0 Health and Safety**
- 4.1 Eye, respiratory, and hearing protection are required at all times during sample drilling. A properly fitted respirator is required for hard porous surface sampling. A respirator is recommended whenever there is a risk of inhalation of either particulate or volatilized PCBs during sampling.
- 4.2 All proper personal protection clothing and equipment must be worn.

4.3 When working with potentially hazardous materials or situations, follow EPA, OSHA, and specific health or safety procedures.

4.4 Care must be exercised when using an electrical drill and sharp cutting objects.

5.0 Interferences and Potential Problems

5.1 This sampling technique produces a finely ground uniform powder, which minimizes the physical matrix effects from variations in the sample consistency (i.e., particle size, uniformity, homogeneity, and surface condition). Matrix spike analysis of a sample is highly recommended to monitor for any matrix related interferences.

5.2 Nitrile gloves are recommended. Latex gloves must not be used due to possible phthalate contamination.

5.3 Interferences may result from using contaminated equipment, solvents, reagents, sample containers, or sampling in a disturbed area. The drill bit must be decontaminated between samples. (see Section 11.0.)

5.4 Cross contamination problems can be eliminated or minimized through the use of dedicated sampling equipment.

6.0 Personnel Qualifications

6.1 All field samplers working at hazardous materials/waste sites are required to take a 40 hour health and safety training course prior to engaging in any field activities. Subsequently, an 8 hour refresher health and safety course is required annually.

6.2 The field sampler should be trained by an experienced sampler before initiating this procedure.

6.3 All personnel shall be responsible for complying with all quality assurance/quality control requirements that pertain to their organizational/technical function.

7.0 Equipment and Supplies

7.1 This list varies with the matrix and if depth profiling is required

- Rotary impact hammer variable speed drill
- 1-inch or other suitable (1/2, 3/4, etc.) diameter carbide tip drill bits
- Steel chisel or sharp cutting knife, and hammer
- Brush and cloths to clean area
- Stainless steel scoopulas

Aluminum foil to collect the powder sample
1 quart Cubitainer with the top cut out to collect the powder sample
Aluminum weighing pans to collect the powder sample
Cleaned glass container (2 oz or 40 mL) with Teflon lined cap
Decontamination supplies: hexane, two small buckets, a scrub brush, detergent, deionized water, hexane squirt bottle, and paper towels
Dedicated vacuum cleaner with a disposable filter or a vacuum pump with a dust filter
Polyethylene tubing and Pasteur pipettes
Sample tags/labels, custody seals, and Chain-of-Custody form

8.0 Sampling Design

8.1 A sufficient number of samples must be collected to meet the data quality objectives of the project. If the source of the PCB contamination is regulated under the federal TSCA PCB Regulations at 40 CFR Part 761, the sampler should insure that the sampling design is sufficient to meet any investigation or verification sampling requirements. At a minimum, the following is recommended:

8.1.1 Suspected stained area (s) should be sampled.

8.1.2 At each separate location, collect at least 3 samples of each type of porous surface, regardless of the amount of each type of porous surface present.

8.1.3 In areas where PCB equipment was used or where PCBs were stored, samples should be collected at a frequency of 1 sample/100 square feet (ft²).

9.0 Sample Collection

9.1 Hard Porous Surfaces

9.1.1 Lock a 1-inch or another size diameter carbide drill bit into the impact hammer drill and plug the drill into an appropriate power source. For easy identification, sample locations may be pre-marked using a marker or paint. (Note: the actual drilling point must not be marked.) Remove any debris with a clean brush or cloth prior to drilling. All sampling decisions of this nature should be noted in the sampling logbook.

9.1.2 Use a Cubitainer with the top cut off or aluminum foil to contain the powdered sample. Begin drilling in the designated location. Apply steady even pressure and let the drill do the work. Applying too much pressure will generate excessive heat and dull the drill bit prematurely. The drill will provide a finely ground powder that can be easily collected.

- 9.1.3 Samples should be collected at ½-inch depth intervals. Thus, the initial surface sample should be collected from 0 – 0.5 inches. A ½-inch deep hole generates about 10 grams (20 mL) of powder. Multiple holes located closely adjacent to each other, may be needed to generate sufficient sample volumes for a PCB determination. It is strongly recommended that the analytical laboratory be consulted on the minimum sample size needed for PCB extraction and analysis.
- 9.1.4 Wall and Ceiling Sampling: A team of two samplers will be required for wall and ceiling sampling. The second person will hold a clean catch surface (e.g. an aluminum pan) below the drill to collect the falling powder. Alternatively, use the chuck-end of the drill bit and punch a hole through the center of the collection pan. The drill bit is then mounted through the pan and into the drill. For ceilings, the drill may be held at an angle to collect the powder. Thus the driller can be drilling at an angle while the assistant steadies the pan to catch the falling powder. As a precaution, it may be advantageous to tape a piece of plastic around the drill, just below the chuck, to avoid dust contaminating the body of the drill and entering the drill's cooling vents. Caution must be taken to prevent obstruction of the drill's cooling vents.

9.2 Soft Porous Surfaces

- 9.2.1 The procedure for the hard porous surface may be used for certain soft porous surfaces, such as wood.
- 9.2.2 Samples should be collected at no more than ½-inch depth intervals using a metal chisel or sharp cutting knife. Thus, the initial surface sample should be collected from 0 – 0.5 inches. It is important to collect at least 10 grams for analysis.
- 9.2.3 For soft porous surfaces, such as caulking and rubber, a representative sample can be collected using a metal chisel or sharp cutting knife.

9.3 Multiple Depth Sampling

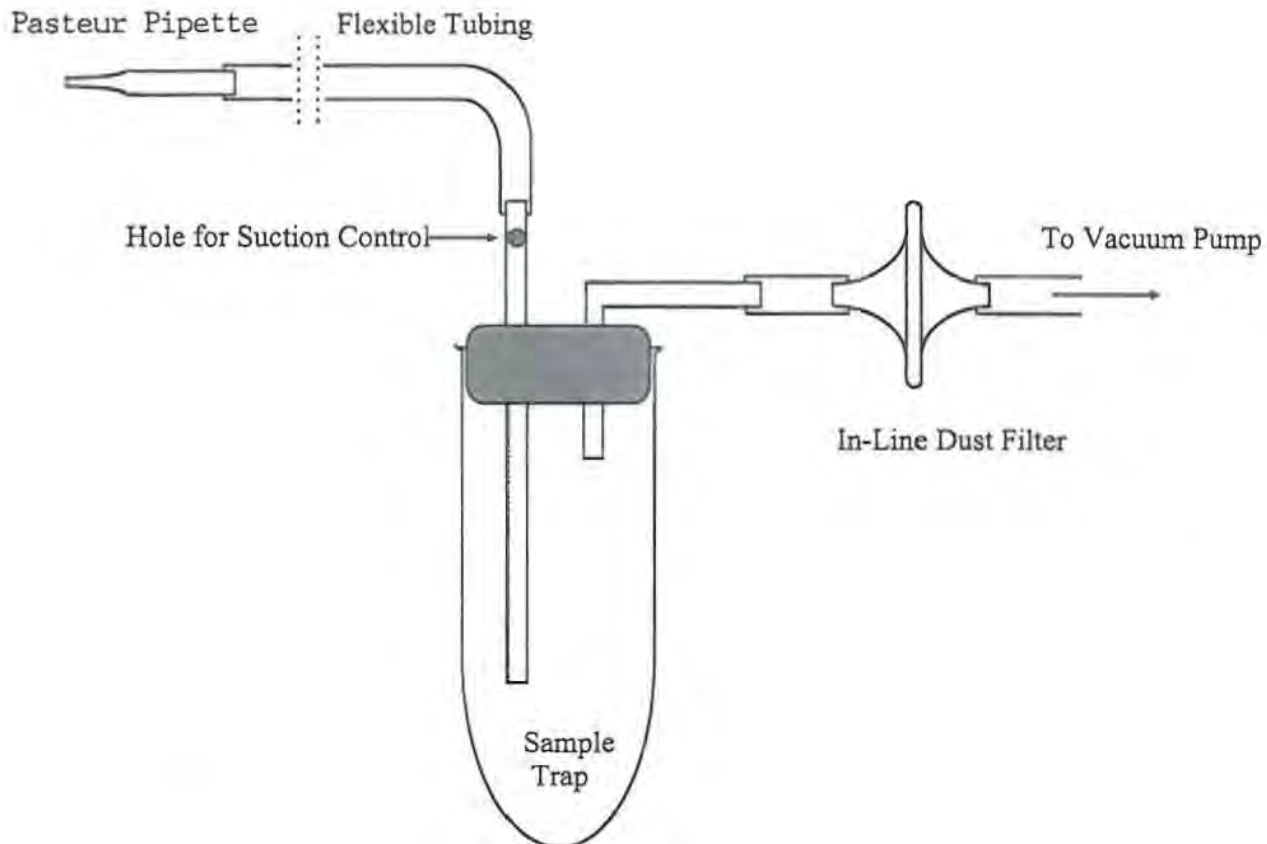
- 9.3.1 Multiple Depth Sampling may not be applicable to certain porous surfaces, such as caulking.
- 9.3.2 Collect the surface sample as outlined in Section 9.1 or 9.2.
- 9.3.3 Use the vacuum pump or cleaner to clean out the hole.
- 9.3.4 To collect multiple depths there are two options.

- 9.3.4.1 Option one: drill sequentially ½-inch increments with the 1 inch drill.
- 9.3.4.2 Option two: drill with the 1 inch bit and either make the hole larger or use a smaller bit to take the next ½- inch sample.
- 9.3.5 A stainless steel scoopula will make it easier to collect the sample from the bottom of the hole.

9.4 Vacuum Trap Design and Clean-out

The trap presented in Figure 1 is a convenient and thorough way for collecting and removing concrete powder from drilled holes. The trap system is designed to allow for control of the suction from the vacuum pump and easy trap clean-out between samples. Note, by placing a hole in the inlet tube (see Figure 1), a finger on the hand holding the trap can be used to control the suction at the sampling tip. Thus, when this hole is left completely open, there will be no suction, and the sampler can have complete control over where and what to sample. To change-out between samples the following steps should be taken: 1) the Pasteur pipette and piece of polyethylene tubing at the sample inlet should be replaced with new materials, 2) the portion of the rubber stopper and glass tubing that was in the trap should be wiped down with a clean damp paper towel (wetted with deionized water) and then dried with a fresh paper towel, 3) a clean pipe cleaner should be drawn through the glass inlet tube to remove any concrete dust present, and 4) the glass tube or flask used to collect the sample should swapped out with a clean decontaminated sample trap. Having several clean tubes or flasks on hand will facilitate change-out between samples.

Figure 1



Note: the holes should be vacuumed thoroughly to minimize any cross-contamination between sample depths and the bits should be decontaminated between samples. (See Section 11.0)

10.0 Sample Handling, Preservation, and Storage

- 10.1 Samples must be collected in glass containers for PCB analyses. In general, a 2-ounce sample container with a Teflon-lined cap (wide-mouth jars are preferred) will hold sufficient mass for most analyses. A 2-ounce jar can hold roughly 90 grams of sample.
- 10.2 Samples are to be shipped refrigerated and maintained at $\leq 6^{\circ}\text{C}$ until the time of extraction and analysis.
- 10.3 The suggested holding time for PCB samples is 14 days to extraction.

11.0 Decontamination

- 11.1 Assemble two decontamination buckets. The first bucket contains a detergent and potable water solution, and the second bucket is for rinsate. Place all used drill bits, hose for the vacuum cleaner, and utensils in the detergent and water bucket. Scrub each piece thoroughly using the scrub brush. Note, the powder does cling to the metal surfaces, so care should be taken during this step, especially with the twists and curves of the drill bits. Next, rinse each piece with water and hexane. Place the rinsed pieces on clean paper towels and individually dry and inspect each piece. Note: all pieces should be dry prior to reuse.
- 11.2 Lightly contaminated drill bits and utensils may be wiped with a hexane soaked cloth and hexane rinsed for decontamination.

12.0 Data and Record Management

- 12.1 All data and information collection should follow a Field Data Management SOP or Quality Assurance Project Plan (QAPP).
- 12.2 Follow the chain of custody procedures to release the samples to the laboratory. A copy is kept with the sampling records.
- 12.3 The field data is stored for at least 3 years.

13.0 Quality Control and Quality Assurance

- 13.1 Representative samples are required. The sampler will evaluate the site specific conditions to assure the sample will be representative.
- 13.2 All sampling equipment must be decontaminated prior to use and between each discrete sample.
- 13.3 All field Quality Control (QC) sample requirements in a Sample and Analysis Plan (SAP) or QAPP must be followed. The SAP or QAPP may involve field blanks, equipment blanks, field duplicates and/or the collection of extra samples for the laboratory's quality control program.
- 13.4 Field duplicates should be collected at a minimum frequency of 1 per 20 samples or 1 per non-related porous matrix, whichever is greater.

14.0 Waste Management and Pollution Prevention


- 14.1 During field sampling events there may be PCB and/or hazardous waste produced from the sample collection. The waste must be handled and disposed of in accordance with federal, state, and local regulations. The dust filter, and tubing if a vacuum pump is used, is disposed after each site investigation. This waste will be treated as PCB waste if the samples are positive for PCBs. It may be possible to manage or dispose of the waste produced at the site where the work was performed. If the site does not meet regulatory requirements for these types of activities, the waste must be transported to a facility permitted to manage and/or dispose of the waste.

15.0 References

1. Guidance for the Preparation of Standard Operating Procedures for Quality-Related Operations, QA/G-6, EPA/600/R-96/027, November 1995.
2. 40 CFR Part 761 – Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution In Commerce, and Use Prohibitions
3. Sample Container and Holding Time: RCRA SW 846, Chapter 4, Table 4.1, Revision 4, February, 2007.

Example of Sample Label and Custody Seal

LABEL	U.S. ENVIRONMENTAL PROTECTION AGENCY – REGION I BOSTON, MASS.	
	NAME OF UNIT AND ADDRESS	DATE: YR/MO/DAY
SAMPLE	ENVIRONMENTAL SERVICES DIVISION 60 WESTVIEW STREET LEXINGTON, MASSACHUSETTS 02173	TIME
	SOURCE OF SAMPLE	STATION NO.
		SAMPLE NO.
		SUB NO.
	SAMPLING CREW(FIRST, INITIAL, LAST NAME)	PRESERVATIVE
		AMOUNT
	ANALYSIS	

 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY OFFICIAL SAMPLE SEAL	SAMPLE NO.	DATE
	SIGNATURE	
	PRINT NAME AND TITLE <i>(Inspector, Analyst or Technician)</i>	
	SEAL BROKEN BY	DATE

EPA FORM 7500-2 (R7-75)

APPENDIX 3

USEPA PCB Cleanup and Disposal Approval



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION I

5 POST OFFICE SQUARE, SUITE 100
BOSTON, MASSACHUSETTS 02109-3912

VIA ELECTRONIC MAIL

Mr. James Stewart
Borough of Naugatuck
229 Church Street
Naugatuck, CT 06770

Re: PCB Cleanup and Disposal Approval under 40 CFR § 761.61(a)
Borough of Naugatuck

Dear Mr. Stewart:

This is in response to the Notification¹ by the Borough of Naugatuck (the Borough) for approval of a proposed PCB cleanup and disposal plan at Area 5 (the Site) of the Former Uniroyal Parcel B property located at 0 Maple Street in Naugatuck, Connecticut. The Site contains PCB-contaminated soils that exceed the allowable PCB level for *high occupancy use* under 40 CFR § 761.61(a).

The Borough is proposing the following PCB cleanup and disposal activities at the Site under § 761.61(a) to meet the *high occupancy area* PCB cleanup standard:

- Remove *PCB remediation waste* (i.e., soil) and dispose as a greater than or equal to (\geq) 50 parts per million (ppm) PCB waste in accordance with 40 CFR § 761.61(a)(5)(i)(B)(2)(iii)
- Conduct soil verification sampling in accordance with 40 CFR Part 761 Subpart O to confirm that the less than or equal to (\leq) 1 ppm PCB cleanup standards have been met

The Borough's Notification meets the requirements at 40 CFR § 761.61(a)(3). The Borough may proceed with its cleanup and disposal in accordance with 40 CFR § 761.61(a), its Notification, and this Approval, subject to the conditions of Attachment 1.

This Approval does not release the Borough from any applicable requirements of federal, state or local law, including the requirements related to cleanup and disposal of *PCB remediation waste* under Connecticut Department of Energy and Environmental Protection (CTDEEP) regulations.

¹ The Notification was prepared by Down to Earth, LLC on behalf of the Borough of Naugatuck (the Borough) to satisfy the requirements under 40 CFR § 761.61(a)(3). Information was submitted dated June 23, 2021 (Self-Implementing Cleanup and Disposal of PCB Remediation Waste Notification); January 18, 2022 (Response to EPA comments); January 24, 2022 (Revised Notification); March 17, 2022 (meeting between EPA and Down to Earth, LLC via Microsoft Teams); and March 17, 2022 (2nd Response to EPA Comments). These submittals together shall be referred to as the "Notification".

This Approval only addresses cleanup and disposal of *PCB remediation waste* located within the Site as identified in the Notification. In the event that the Borough identifies other PCB-contaminated wastes subject to cleanup and disposal under the PCB regulations, the Borough will be required to notify EPA and cleanup the PCB-contaminated wastes in accordance with 40 CFR Part 761 (see Attachment 1, Condition 1).

Questions and correspondence regarding this Approval should be directed to:

Katherine A. Woodward, PE, Project Manager
United States Environmental Protection Agency
5 Post Office Square, Suite 100, Mail Code: LCRD07-2
Boston, Massachusetts 02109-3912
Telephone: (617) 918-1353
woodward.katherine@epa.gov

EPA encourages the compliance with greener cleanup practices for all cleanup projects and recommends adherence to the ASTM Standard Guide to Greener Cleanups E2893-16 (“Guide”) for work conducted under this Approval and the Notification. Greener Cleanups is the practice of integrating options that minimize the environmental impacts of cleanup actions in order to incorporate practices that maximize environmental and human benefit. Please see Section 6 of the Guide for the Best Management Practices (“BMP”) Process dated May 2016. (See www.astm.org/Standards/E2893.htm for additional information). EPA encourages you to review the Guide and implement any practices that are feasible. If implemented, the PCB completion report (see Attachment 1, Condition 22) should include a section on BMP Documentation, as described in Section 6.6.5 of the Guide.

EPA shall not consider this project to be complete until it has received all submittals required under this Approval. Please be aware that upon receipt and review of the submittals, EPA may request any additional information necessary to establish that the work has been completed in accordance with 40 CFR Part 761, the Notification, and this Approval.

Sincerely,

Ginny Lombardo, Chief
Land, Chemicals and Redevelopment Branch

Attachment 1: PCB Cleanup and Disposal Approval Conditions

cc: Timothy Carr, LEP, Down to Earth, LLC tim@downtoearthconsulting.com
Amber Trahan, CTDEEP amber.trahan@ct.gov

ATTACHMENT 1

**PCB CLEANUP AND DISPOSAL APPROVAL CONDITIONS
BOROUGH OF NAUGATUCK
AREA 5 (THE SITE), FORMER UNIROYAL PARCEL B
0 MAPLE STREET
NAUGATUCK, CONNECTICUT**

GENERAL CONDITIONS

1. This Approval is granted under the authority of Section 6(e) of the Toxic Substances Control Act (TSCA), 15 U.S.C. § 2605(e), and the PCB regulations at 40 CFR Part 761, and applies solely to the *PCB remediation waste* located at Area 5 and identified in the Notification.
 - a. In the event that the Borough identifies other PCB-contaminated wastes (i.e., PCBs not identified in the Notification) subject to cleanup and disposal under the PCB regulations, the Borough will be required to notify EPA and to clean up the PCB-contaminated wastes in accordance with 40 CFR Part 761.
 - b. The Borough may submit a separate plan to address the PCB contamination or may propose to modify the Notification to incorporate cleanup of the PCBs under this Approval in accordance with Condition 17.
2. The Borough shall conduct on-site activities in accordance with the conditions of this Approval and with the Notification.
3. In the event that the cleanup plan described in the Notification differs from the conditions specified in this Approval, the conditions of this Approval shall govern.
4. The terms and abbreviations used herein shall have the meanings as defined in 40 CFR § 761.3 unless otherwise defined within this Approval.
5. The Borough must comply with all applicable federal, state and local regulations in the storage, handling, and disposal of all PCB wastes, including PCBs, PCB Items and decontamination wastes generated under this Approval. In the event of a new spill during response actions, the Borough shall contact EPA within 24 hours for direction on PCB cleanup and sampling requirements.
6. The Borough is responsible for the actions of all officers, employees, agents, contractors, subcontractors, and others who are involved in activities conducted under this Approval. If at any time the Borough has or receives information indicating that the Borough or any other person has failed, or may have failed, to comply with any provision of this Approval, it must report the information to EPA in writing within 24 hours of having or receiving the information.

7. This Approval does not constitute a determination by EPA that the transporters or disposal facilities selected by the Borough are authorized to conduct the activities set forth in the Notification. The Borough is responsible for ensuring that its selected transporters and disposal facilities are authorized to conduct these activities in accordance with all applicable federal, state and local statutes and regulations.
8. This Approval does not: 1) waive or compromise EPA's enforcement and regulatory authority; 2) release the Borough from compliance with any applicable requirements of TSCA or of other federal, state or local law; or, 3) release the Borough from liability for, or otherwise resolve any violations of TSCA or of any other federal, state or local law.
9. Failure to comply with the Approval conditions specified herein shall constitute a violation of the requirement in 40 CFR § 761.50(a) to store or dispose of PCB waste in accordance with 40 CFR Part 761 Subpart D.

NOTIFICATION AND CERTIFICATION CONDITIONS

10. This Approval may be revoked if the EPA does not receive written notification from the Borough of its acceptance of the conditions of this Approval within 10 business days of receipt.
11. The Borough shall notify EPA in writing of the scheduled date of commencement of on-site activities at least 1 business day prior to conducting any work under this Approval. Such notification shall include an estimated schedule for completion of the PCB cleanup and disposal actions authorized under this Approval.
12. Prior to initiation of work authorized under this Approval, the Borough shall submit the following information to EPA:
 - a. a certification signed by its selected remediation contractor, stating that the contractor(s) has read and understands the Notification, and agrees to abide by the conditions specified in this Approval; and,
 - b. a certification signed by the selected analytical laboratory, stating that the laboratory has read and understands the extraction and analytical method requirements and quality assurance requirements specified in the Notification and in this Approval

CLEANUP AND DISPOSAL CONDITIONS

13. To the maximum extent practical, engineering controls shall be utilized to minimize the potential for PCB releases during work within the Site. In addition, to the maximum extent possible, disposable equipment and materials, including PPE, will be used to reduce the amount of decontamination necessary.
14. The cleanup level for *PCB remediation waste* (i.e., soil) at the Site shall be less than or equal to (\leq) 1 part per million (ppm) as required under 40 CFR § 761.61(a)(4)(i)(A) to meet the *high occupancy area* PCB cleanup standard without further restriction.
 - a. Post-excavation *PCB remediation waste* (i.e., soil) samples shall be collected on a bulk basis (i.e., mg/kg) and PCB results reported on a dry-weight basis. Samples shall be collected in accordance with 40 CFR Part 761 Subpart O to confirm PCB concentrations that remain are \leq 1 ppm. Soil samples shall be collected from both excavation bottoms and sidewalls, as applicable.
 - b. Should PCBs greater than ($>$) 10 ppm be found at the maximum excavation depth of 10 feet, the Borough shall contact EPA to discuss further remediation options.
 - c. Should the Borough encounter any water intrusion into the excavation (e.g., from groundwater, a weather event, etc.), the Borough shall contact EPA to discuss further remediation options.
 - d. Chemical extraction for PCBs shall be conducted using Methods 3500B/3540C of SW-846 for solid matrices and Method 3500B/3510C of SW-846 for aqueous matrices; and chemical analysis for PCBs shall be conducted using Method 8082 of SW-846, unless another extraction or analytical method(s) is validated according to Subpart Q.
15. All PCB waste (regardless of concentration) generated as a result of the activities described in the Notification, excluding any decontaminated materials, shall be marked in accordance with 40 CFR § 761.40; stored in a manner consistent with 40 CFR § 761.65; and, disposed of in accordance with 40 CFR § 761.61(a)(5), unless otherwise specified below.
 - a. Decontamination wastes and residues shall be disposed of in accordance with 40 CFR § 761.79(g).
 - b. Moveable equipment, tools, and sampling equipment shall be decontaminated in accordance with either 40 CFR § 761.79(b)(3)(i)(A), § 761.79(b)(3)(ii)(A), or § 761.79(c)(2).
 - c. PCB-contaminated water generated during decontamination shall be decontaminated in accordance with 40 CFR § 761.79(b)(1) or disposed of under § 761.60.

INSPECTION, MODIFICATION AND REVOCATION CONDITIONS

16. The Borough shall allow any authorized representative of the Administrator of the EPA to inspect the Site and to inspect records and take samples as may be necessary to determine compliance with the PCB regulations and this Approval. Any refusal by the Borough to allow such an inspection (as authorized by Section 11 of TSCA) shall be grounds for revocation of this Approval.
17. Any proposed modification(s) in the plan, specifications, or information in the Notification must be submitted to EPA no less than 14 calendar days prior to the proposed implementation of the change. Such proposed modifications will be subject to the procedures of 40 CFR § 761.61(a)(3)(ii).
18. Any departure from the conditions of this Approval without prior, written authorization from the EPA may result in the revocation, suspension and/or modification of the Approval, in addition to any other legal or equitable relief or remedy the EPA may choose to pursue.
19. Any misrepresentation or omission of any material fact in the Notification or in any records or reports may result in the EPA's revocation, suspension and/or modification of the Approval, in addition to any other legal or equitable relief or remedy the EPA may choose to pursue.
20. Approval for these activities may be revoked, modified or otherwise altered: if EPA finds a violation of the conditions of this Approval or of 40 CFR Part 761, including EPA's PCB Spill Cleanup Policy, or other applicable rules and regulations; or, if EPA finds that these activities present an unreasonable risk of injury to health or the environment.

RECORDKEEPING AND REPORTING CONDITIONS

21. The Borough shall prepare and maintain all records and documents required by 40 CFR Part 761, including but not limited to the records required under Subparts J and K. A written record of the cleanup and disposal and the analytical sampling shall be established and maintained by the Borough in one centralized location, until such time as EPA approves in writing a request for an alternative disposition of such records. All records shall be made available for inspection to authorized representatives of EPA.

22. The Borough shall submit a PCB completion report as an electronic version to the EPA within 60 days of completion of the activities authorized under this Approval. At a minimum, this completion report shall include: a short narrative of the project activities with photographic documentation and Greener Cleanups BMP documentation, if implemented; characterization and confirmation sampling analytical results; copies of the accompanying analytical chains of custody; field and laboratory quality control/quality assurance checks; an estimate of the quantity of PCB waste disposed of; copies of manifests and bills of lading; copies of certificates of disposal or similar certifications issued by the disposer; and, the estimated cost of the PCB remediation work conducted under this Approval.
23. Required submittals shall be emailed to:
- Katherine A. Woodward, PE, Project Manager
United States Environmental Protection Agency
5 Post Office Square, Suite 100
Boston, Massachusetts 02109-3912
woodward.katherine@epa.gov
24. No record, report or communication required under this Approval shall qualify as a self-audit or voluntary disclosure under EPA audit, self-disclosure or penalty policies.

END OF ATTACHMENT

APPENDIX 4

Prevailing Wage Rates



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.

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. 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.

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;
- (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.

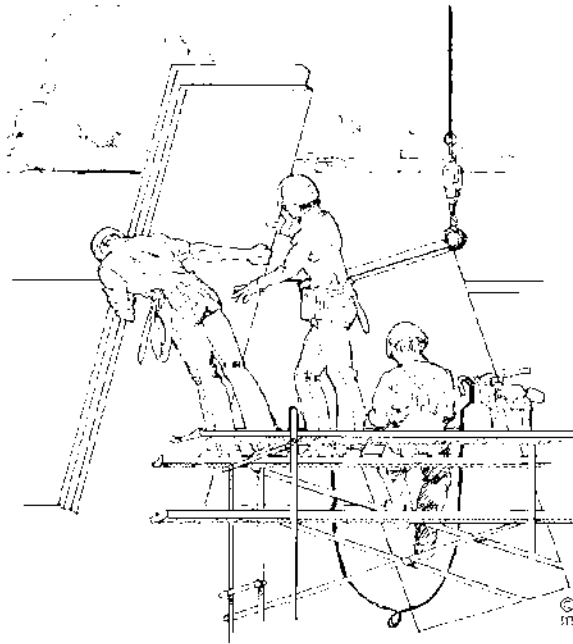
~NOTICE~

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): _____

***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.

_____ (Signature) _____ (Title) _____ Submitted on (Date)

**Weekly Payroll Certification For
Public Works Projects (Continued)**

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	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					FICA	FEDERAL WITH- HOLDING	STATE WITH- HOLDING	OTHER					

*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								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
		DAY AND DATE												Total O/T Hours	FICA	FEDERAL WITH-HOLDING	STATE WITH-HOLDING		
PERSON/WORKER, ADDRESS and SECTION	APPR RATE %	MALE/FEMALE AND RACE*	WORK CLASSIFICATION	S	M	T	W	TH	F	S									
			Trade License Type & Number - OSHA 10 Certification Number	20	21	22	23	24	25	26									
HOURS WORKED EACH DAY																			
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	\$ 30.75 Base Rate	1. \$ 5.80 2. \$ 3. \$ 2.01	\$1,582.80				P-xxxx \$ xxx.xx
											O-TIME	\$ 8.82 Cash Fringe	4. \$ 5. \$ 6. \$						
Ronald Jones 212 Elm Street Norwich, CT 06360	65%	M/B	Electrical Apprentice OSHA 234567		8	8	8	8	8			S-TIME 40	\$ 19.99 Base Rate	1. \$ 2. \$ 3. \$	\$1,464.80	xx.xx	xxx.xx	xx.xx	G-xxx \$xxx.xx
											O-TIME	\$ 16.63 Cash Fringe	4. \$ 5. \$ 6. \$						
Franklin T. Smith 234 Washington Rd. New London, CT 06320 SECTION B		M/H	Project Manager			8						S-TIME 8	\$ Base Rate	1. \$ 2. \$ 3. \$	\$1,500.00	xx.xx	xx.xx	xx.xx	M-xx.x xxx.xx
											O-TIME	\$ Cash Fringe	4. \$ 5. \$ 6. \$						
7/13/2009 *IF REQUIRED *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 4th, 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.

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

ID#: 22-39094

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

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: Project Town: Naugatuck
State#: FAP#:
Project: Excavation and Disposal of Controlled Materials Parcel B, Area 5 On Old Fire House Road

CLASSIFICATION	Hourly Rate	Benefits
1) Boilermaker	44.46	28.51
1a) Bricklayer, Cement Masons, Cement Finishers, Plasterers, Stone Masons	38.27	34.47
2) Carpenters, Piledrivermen	36.07	26.15
2a) Diver Tenders	36.07	26.15
3) Divers	44.53	26.15
03a) Millwrights	36.32	26.81
4) Painters: (Bridge Construction) Brush, Roller, Blasting (Sand, Water, etc.), Spray	55.0	23.75
4a) Painters: Brush and Roller	37.22	23.40
4b) Painters: Spray Only	40.22	23.40
4c) Painters: Steel Only	39.22	23.40

4d) Painters: Blast and Spray	40.22	23.40
4e) Painters: Tanks, Tower and Swing	39.22	23.40
4f) Elevated Tanks (60 feet and above)	46.22	23.40
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)	41.4	31.07+3% of gross wage
6) Ironworkers: Ornamental, Reinforcing, Structural, and Precast Concrete Erection	39.7	38.77 + 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)	47.03	34.05
----LABORERS-----		
8) Group 1: Laborer (Unskilled), Common or General, acetylene burner, concrete specialist	32.0	24.40
9) Group 2: Chain saw operators, fence and guard rail erectors, pneumatic tool operators, powdermen	32.25	24.40
10) Group 3: Pipelayers	32.5	24.40
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	32.5	24.40
12) Group 5: Toxic waste removal (non-mechanical systems)	34.0	24.40
13) Group 6: Blasters	33.75	24.40

Group 7: Asbestos/lead removal, non-mechanical systems (does not include leaded joint pipe)	33.0	24.40
Group 8: Traffic control signalmen	18.0	24.40
Group 9: Hydraulic Drills	32.75	24.40
----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	34.23	24.40 + a
13b) Brakemen, Trackmen, Miners' Helpers and all other men	33.26	24.40 + a
----CLEANING, CONCRETE AND CAULKING TUNNEL----		
14) Concrete Workers, Form Movers, and Strippers	33.26	24.40 + a
15) Form Erectors	33.59	24.40 + a
----ROCK SHAFT LINING, CONCRETE, LINING OF SAME AND TUNNEL IN FREE AIR:----		
16) Brakemen, Trackmen, Tunnel Laborers, Shaft Laborers, Miners Helpers	33.26	24.40 + a
17) Laborers Topside, Cage Tenders, Bellman	33.15	24.40 + a
18) Miners	34.23	24.40 + a
----TUNNELS, CAISSON AND CYLINDER WORK IN COMPRESSED AIR: ----		

18a) Blaster	40.72	24.40 + a
19) Brakemen, Trackmen, Groutman, Laborers, Outside Lock Tender, Gauge Tenders	40.52	24.40 + a
20) Change House Attendants, Powder Watchmen, Top on Iron Bolts	38.54	24.40 + a
21) Mucking Machine Operator, Grout Boss, Track Boss	41.31	24.40 + a
----TRUCK DRIVERS----(*see note below)		
Two Axle Trucks, Helpers	31.16	28.78 + a
Three Axle Trucks; Two Axle Ready Mix	31.27	28.78 + a
Three Axle Ready Mix	31.33	28.78 + a
Four Axle Trucks	31.39	28.78 + a
Four Axle Ready-Mix	31.44	28.78 + a
Heavy Duty Trailer (40 tons and over)	33.66	28.78 + a
Specialized earth moving equipment other than conventional type on-the road trucks and semi-trailer (including Euclids)	31.44	28.78 + a
Heavy Duty Trailer (up to 40 tons)	32.39	28.78 + a
Snorkle Truck	31.54	28.78 + a
----POWER EQUIPMENT OPERATORS----		

Group 1: Crane Handling or Erecting Structural Steel or Stone, Hoisting Engineer (2 drums or over). (Trade License Required)	50.27	26.80 + a
Group 1a: Front End Loader (7 cubic yards or over); Work Boat 26 ft. and over.	46.07	26.80 + a
Group 2: Cranes (100 ton rate capacity and over); Bauer Drill/Caisson. (Trade License Required)	49.91	26.80 + a
Group 2a: Cranes (under 100 ton rated capacity).	49.06	26.80 + a
Group 2b: Excavator over 2 cubic yards; Pile Driver (\$3.00 premium when operator controls hammer).	45.71	26.80 + a
Group 3: Excavator; 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)	44.86	26.80 + a
Group 4: Trenching Machines; Lighter Derrick; CMI Machine or Similar; Koehring Loader (Skooper).	44.42	26.80 + a
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" mandrel)	43.73	26.80 + a
Group 5 continued: Side Boom; Combination Hoe and Loader; Directional Driller.	43.73	26.80 + a
Group 6: Front End Loader (3 up to 7 cubic yards); Bulldozer (rough grade dozer).	43.38	26.80 + 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)	42.99	26.80 + a
Group 8: Mechanic, Grease Truck Operator, Hydroblaster, Barrier Mover, Power Stone Spreader; Welder; Work Boat under 26 ft.; Transfer Machine.	42.54	26.80 + 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), Vacuum Excavation Truck and Hydrovac Excavation Truck (27 HG pressure or greater).	42.04	26.80 + a
Group 10: Vibratory Hammer, Ice Machine, Diesel and Air Hammer, etc.	39.7	26.80 + a
Group 11: Conveyor, Earth Roller; Power Pavement Breaker (whiphammer), Robot Demolition Equipment.	39.7	26.80 + a
Group 12: Wellpoint Operator.	39.63	26.80 + a
Group 13: Compressor Battery Operator.	38.97	26.80 + a
Group 14: Elevator Operator; Tow Motor Operator (Solid Tire No Rough Terrain).	37.66	26.80 + a
Group 15: Generator Operator; Compressor Operator; Pump Operator; Welding Machine Operator; Heater Operator.	37.2	26.80 + a
Group 16: Maintenance Engineer.	36.46	26.80 + a
Group 17: Portable Asphalt Plant Operator; Portable Crusher Plant Operator; Portable Concrete Plant Operator., Portable Grout Plant Operator, Portable Water Filtration Plant Operator.	41.39	26.80 + a
Group 18: Power Safety Boat; Vacuum Truck; Zim Mixer; Sweeper; (minimum for any job requiring CDL license).	38.61	26.80 + a

**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
22) Equipment Operator, Tractor Trailer Driver, Material Men	40.96	6.5% + 19.21
23) Driver Groundmen	26.5	6.5% + 9.00
23a) Truck Driver	40.96	6.5% + 17.76
----LINE CONSTRUCTION----		
24) Driver Groundmen	30.92	6.5% + 9.70
25) Groundmen	22.67	6.5% + 6.20
26) Heavy Equipment Operators	37.1	6.5% + 10.70
27) Linemen, Cable Splicers, Dynamite Men	41.22	6.5% + 12.20
28) Material Men, Tractor Trailer Drivers, Equipment Operators	35.04	6.5% + 10.45

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*

- 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. 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.

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

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: September 6, 2022

APPENDIX 5

CHRO Information

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.

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.

2) Description of Job Categories (as used in Part IV Bidder Employment Information) (Page 2)

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.

3) Definition of Racial and Ethnic Terms (as used in Part IV Bidder Employment Information) (Page 3)

<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 1 – Bidder Information

<p>Company Name: Street Address: City & State: Chief Executive:</p>	<p>Bidder Federal Employer Identification Number: Or Social Security Number:</p>
<p>Major Business Activity: (brief description)</p>	<p>Bidder Identification (response optional/definitions on page 1)</p> <p>-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 is certified as above by State of CT? Yes No</p>
<p>Bidder Parent Company: (If any)</p>	
<p>Other Locations in CT: (If any)</p>	

PART II - Bidder Nondiscrimination Policies and Procedures

<p>1. Does your company have a written Affirmative Action/Equal Employment Opportunity statement posted on company bulletin boards? Yes No</p>	<p>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</p>
<p>2. Does your company have the state-mandated sexual harassment prevention in the workplace policy posted on company bulletin boards? Yes No</p>	<p>8. Do you, upon request, provide reasonable accommodation to employees, or applicants for employment, who have physical or mental disability? Yes No</p>
<p>3. Do you notify all recruitment sources in writing of your company's Affirmative Action/Equal Employment Opportunity employment policy? Yes No</p>	<p>9. Does your company have a mandatory retirement age for all employees? Yes No</p>
<p>4. Do your company advertisements contain a written statement that you are an Affirmative Action/Equal Opportunity Employer? Yes No</p>	<p>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 N/A</p>
<p>5. Do you notify the Ct. State Employment Service of all employment openings with your company? Yes No</p>	<p>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 N/A</p>
<p>6. Does your company have a collective bargaining agreement with workers? Yes No</p> <p>6a. If yes, do the collective bargaining agreements contain non-discrimination clauses covering all workers? Yes No</p> <p>6b. Have you notified each union in writing of your commitments under the nondiscrimination requirements of contracts with the state of CT? Yes No</p>	<p>12. Does your company have a written affirmative action Plan? Yes No If no, please explain.</p> <p>13. Is there a person in your company who is responsible for equal employment opportunity? Yes No If yes, give name and phone number:</p>

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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SELF-PERFORMING MBEs MUST DEMONSTRATE GOOD FAITH EFFORTS TO EMPLOY OTHER MBEs AS SUBCONTRACTORS AND SUPPLIERS OF MATERIALS.

Several features of contracting practices law point toward expecting self-performing minority business enterprises (MBE)¹ to follow the same rules that apply to other contractors. In the case of a minority contractor who self-performs, simply being an MBE would often be enough to comply with the law. All the contractor would need to do would be to “perform not less than thirty per cent of the work with the workforces of such contractor” and make sure “that not less than fifty per cent of the work be performed by contractors or subcontractors eligible for awards under” CONN. GEN. STAT. § 4a-60g(e).

Normally when goals are met we don’t look behind that and address good faith efforts. By meeting goals we assume the contractor’s efforts were good enough--that goal attainment speaks for itself. There are exceptions to this rule of course. We will consider good faith efforts despite goal attainment where we suspect a contractor was deceiving us, such as the company used was a sham or a contractor was not actually soliciting the entities it claimed to have solicited. A situation where an MBE self-performs presents another special circumstance where an inquiry into good faith efforts can be made. While no statute directly says as much, language in several statutes indirectly leads to this conclusion.

As an administrative agency, the CHRO doesn’t make law. We apply or enforce the law we’re given by the legislature. “In areas where the legislature has spoken...the primary responsibility for formulating public policy must remain with the legislature”. (Citation and internal quotation marks omitted.) Mayer v. Historic District Commission,

¹ References to MBE include ethnic minority-owned businesses, women owned businesses and businesses owned by individuals with disabilities.

325 Conn. 765, 780 (2017). That policy resides in statutes. Thibodeau v. Design Group One Architects, LLC, 260 Conn. 691, 720 (2002).

In CONN. GEN. STAT. § 4a-60g(b) the legislature included an explanation for the set-aside program:

It is found and determined that there is a serious need to help small contractors, minority business enterprises, nonprofit organizations and individuals with disabilities to be considered for and awarded state contracts for the purchase of goods and services, public works contracts, municipal public works contracts and contracts for quasi-public agency projects. Accordingly, the necessity of awarding such contracts in compliance with the provisions of this section, sections 4a-60h to 4a-60j, inclusive, and sections 32-9i to 32-9p, inclusive, for advancement of the public benefit and good, is declared as a matter of legislative determination.

The legislature intended the set-aside program to have a broad reach. It considered the lack of MBE participation to be “serious”, and made compliance a “necessity” that would lead to a “public benefit and good”. One way to achieve that purpose is to help as many MBEs as possible and not to confine the program’s benefits to a few beneficiaries.

Some of this philosophy carries over into CONN. GEN. STAT. § 4a-60. CONN. GEN. STAT. § 4a-60(b) requires contractors to “make good faith efforts to employ minority business enterprises as subcontractors and suppliers of materials on such public works or quasi-public agency project.” Good faith efforts are not optional; the contractor “agrees and warrants” to make these efforts. Nothing here or elsewhere excludes MBEs, WBEs or DisBEs from the good faith requirement, and the CHRO can’t read in an exception that the legislature did not think right to provide by word or implication. Caulkins v. Petrillo, 200 Conn. 713, 719 (1986).

Further, as a remedial statute, any exception would have to be read narrowly. Fairchild Heights, Inc. v. Dickal, 305 Conn. 488, 502 (2012). Statutes under the CHRO’s

jurisdiction are remedial. Thames Talent, Ltd. v. CHRO, 265 Conn. 127, 138 (2003); CHRO v. Sullivan Associates, 250 Conn. 763, 782 (1999) (CT's housing statute). "The principles of statutory construction direct us to construe remedial statutes 'liberally in order to effectuate the legislature's intent.'" (Citations omitted.) Id.

Among other things, CONN. GEN. STAT. § 4a-60(f) defines "good faith efforts" to include the "contractor's employment and subcontracting policies, patterns and practices". Although the subsection (f) indicia of good faith are not exclusive, it would be anomalous to find a self-performing contractor satisfied its statutory responsibility to "make good faith efforts to employ minority business enterprises as subcontractors and suppliers of materials" when the contractor has in fact made no such efforts. Statutes are interpreted to produce a sensible result. Curry v. Alan S. Goodman, Inc., 286 Conn. 390, 412-13 (2008).

In the absence of clear statutory language, the best interpretation here is that CONN. GEN. STAT. § 4a-60 holds every contractor to the same obligation to employ MBEs as subcontractors and suppliers of materials and that the CHRO, in evaluating a contractor's good faith efforts, will consider a contractor's subcontracting policies, patterns and practices regardless of the contractor's MBE status. The lack of an exemption for MBEs and the legislature's expansive notions about the scope of the set-aside program both point in this direction.

**STATE OF CONNECTICUT
COMMISSION ON HUMAN RIGHTS AND OPPORTUNITIES**

NOTICE CONCERNING CONTRACT COMPLIANCE RESPONSIBILITIES

TO ALL LABOR UNIONS, WORKERS REPRESENTATIVES AND VENDORS:

Any contract this contractor has with the State of Connecticut or political subdivisions of the state, other than municipalities, shall be performed in accordance with CONN. GEN. STAT. Section 4a-60 and Section 4a-60a.

This means that this contractor:

1. Agrees to provide the Commission on Human Rights and Opportunities (CHRO) with any information concerning this contractor's employment practices and procedures which relates to the Commission's responsibilities under CONN. GEN. STAT. Sections 4a-60 or 46a-56 or Section 4a-60a.; and
2. Agrees to include the provisions of CONN. GEN. STAT. Section 46a-60(a) and Section 4a-60a in each and every subcontract and purchase order and to take whatever action the CHRO deems necessary to enforce these provisions.

WITH REGARD TO RACE, COLOR, RELIGIOUS CREED, AGE, MARITAL STATUS, NATIONAL ORIGIN, ANCESTRY, SEX, MENTAL RETARDATION OR PHYSICAL DISABILITY, this means that this contractor:

1. Shall not discriminate or permit discrimination against anyone;
2. Shall take affirmative action so that persons applying for employment are hired on the basis of job-related qualifications and that employees once hired are treated without regard to their race, color, religious creed, age, marital status, national origin, ancestry, sex, mental retardation or physical disability, unless the contractor can show that the disability prevents performance of the work involved;
3. Shall state in all advertisements for employees that it is an affirmative action-equal opportunity employer;
4. Shall comply with CONN. GEN. STAT. Sections 4a-60, 46a-68e and 46a-68f and with each regulation or relevant order issued by the CHRO under CONN. GEN. STAT. Sections 46a-56, 46a-68e and 46a-68f; and
5. Shall make, if the contract is a public works contract, good faith efforts to employ minority business enterprises as subcontractors and suppliers of materials.

WITH REGARD TO SEXUAL ORIENTATION, GENDER IDENTITY OR EXPRESSION:

1. The contractor will not discriminate or permit discrimination against anyone, and employees will be treated without regard to their sexual orientation, gender identity or expression once employed; and
2. The contractor agrees to fully comply with Section 4a-60a and each regulation or relevant order issued by the CHRO under CONN. GEN. STAT. Section 46a-56.

Persons having questions about this notice or their rights under the law are urged to contact the:

COMMISSION ON HUMAN RIGHTS AND OPPORTUNITIES
AFFIRMATIVE ACTION AND CONTRACT COMPLIANCE
UNIT

450 Columbus Boulevard, Suite 2
Hartford, CT 06103
(860) 541-4709

COPIES OF THIS NOTICE SHALL BE POSTED IN CONSPICUOUS PLACES
AVAILABLE TO ALL EMPLOYEES AND APPLICANTS FOR EMPLOYMENT



State of Connecticut COMMISSION ON HUMAN RIGHTS AND OPPORTUNITIES

Central Office ~ 450 Columbus Boulevard, Hartford, CT 06103

Promoting Equality and Justice for all People

Good Faith Efforts

How does the CHRO analyze a contractor's good faith efforts to solicit Small Business Enterprises (SBEs) and/or Minority Business Enterprises (MBEs)?

Remember - The goal is to use small businesses for at least 25% of the work and to use Department of Administrative Services (DAS) certified Connecticut businesses owned by women, minorities, and persons with disabilities for at least 6.25% of the work.

Here are the factors the CHRO looks at to determine whether a contractor has made a good faith effort to provide opportunities for DAS certified Connecticut small businesses to work on state funded projects.

- Has the contractor actually achieved its goal?
- If the contractor has failed to achieve its goals, the CHRO will evaluate whether the contractor has taken reasonable steps to achieve those goals. Evidence of taking reasonable steps to achieve the goals would include, but not be limited to, following the CHRO's best suggested practices such as:
 - Drawing from MBE/WBE/DisBE by consulting with various sources, including the State of Connecticut DAS Supplier Diversity Program (<http://www.biznet.ct.gov/SDSearch/SDSearch.aspx>);
 - Allowing minority and small businesses to competitively bid against each other by soliciting for the trades/materials/services, or provide an explanation as to why the trade/material/service was not solicited to SBE/MBE/WBE/DisBEs;
 - Using concise responses for bid results (avoid vague responses such as "did not bid" or "no response"; use responses to show follow-up);
 - Soliciting bids only from those subcontractors and/or vendors who can provide the trade/material service;

Main (860) 541-3400 ~ Fax (860) 246-5419

www.ct.gov/chro ~ Toll Free in Connecticut (800) 477-5737 ~ TDD (860) 541-3459

Affirmative Action/Equal Opportunity Employer

- Including trades/materials/services within the company's bidding process or provide an explanation with reference as to why the trades/materials/services were not solicited to SBE/MBE/WBE/DisBEs;
 - Break larger jobs into smaller packages.
- The CHRO will also look for “red flags” that might show lack of good faith. These will be looked at on a case-by-case basis. These include, but are not limited to, the following:
 - Incomplete submissions;
 - Inaccurate submissions;
 - Submissions lack required specificity;
 - A Contractor Solicited but did not award any companies for a trade/material/service;
 - Soliciting from contractors that do not actually provide the good or service needed;
 - Soliciting from contractors that are geographically too far away from the project, making them unlikely to bid;
 - Trades/Materials/Services needed but never solicited for;
 - Listing contractors that were not actually solicited as solicited;
 - Awarding a contractor that wasn't solicited;
 - Unaccounted for contract money;
 - False submissions.

Instructions for Filing CHRO Reporting Forms

Please note, all reports filed with CHRO must have the original signature (blue ink preferred) and official title of the company's authorized agent. A copy must be sent to the Awarding Agency/CMR and a copy should be kept for your records.

Form 257	<p>Monthly Employment Utilization Report</p> <ul style="list-style-type: none"> To be completed every month from the date that the project started. For the months employee(s) did not work on the project site, fill out one form for each month & check the box located at the bottom of the form marked, "Did not perform work on this project for this month." The last month the employee(s) worked on the job (i.e. the month the company walked off the project site) please fill out a Form 257 & write at the bottom of the form in BIG BOLD letters "FINAL".
Form 257a	<p>Monthly Employment Utilization Report for non-trade workers on site (i.e. Bookkeeper, Project Manager, Receptionist)</p> <ul style="list-style-type: none"> To be completed every month from the date that the project started only if "On Site Personnel (Other than Trade Workers)" worked on the job. Follow instructions above for Form 257 when a non-trade worker employee is on the site. If there are no non-trade worker employee(s) on the site, do not submit Form 257a.
Form 257b	<p>Cumulative Employment Utilization Report</p> <ul style="list-style-type: none"> The last month the employee(s) worked at the project site, please fill out a Form 257b (as well as the FINAL Form 257 mentioned above) & write at the bottom of the form in BIG BOLD letters "FINAL". Form 257b is a total of all the work hours the employees have worked on the project. Therefore, if you add up all of the hours from each of the Form 257's that have been filed for this project, that number should correspond with the number of total work hours reported on the Form 257b.
Revised Forms 257 & 257b	<p>Punch List Items or Other Events</p> <ul style="list-style-type: none"> If a sub returns to the job to do punch list items or other events after filling out FINAL filings, a Revised Final Form 257 for the months that they worked on the punch list items, as well as a Revised Form 257b must be filed. These revised reports should be marked in BIG BOLD letters "REVISED MM/DD/YYYY."
Form 258	<p>Quarterly Payment Status Report (project > 12 months)</p> <ul style="list-style-type: none"> Effective January 1, 2017, the Commission has suspended the use of Form 258 Quarterly Payment Status Report. Thereafter, only Form 258a Monthly Payment Status Report will be used for all projects, regardless of their duration. Going forward, all reporting requirements will be on a monthly basis. This measure is being implemented to facilitate the reporting requirements.
Form 258a	<p>Monthly Payment Status Report</p> <ul style="list-style-type: none"> Effective January 1, 2017, Form 258a Monthly Payment Status Report is required for all projects. If you are filling out a Form 258a for the last month of the project, write at the bottom of the form in BIG BOLD letters "FINAL".
Form 259	<p>Monthly Materials Consumption Report</p> <ul style="list-style-type: none"> Material/Service Supplier submits every month from the date that the project started until the final delivery of material/service. The officer of the company signs in the box that corresponds as to whether they "Did Supply Materials" that month or they "Did Not Supply Materials" that month. At the end of the last month in which the material/service provider provided material or service for this project, write at the bottom of the form in BIG BOLD letters "FINAL".

Copies of CHRO reports can be obtained by logging onto www.ct.gov/chro and go to "Forms" and select the required form under the second heading "Forms and Reports for Construction Workers."

Commission on Human Rights and Opportunities Contract Compliance Unit 450 Columbus Blvd Ste 2 Hartford CT 06103	1. MONTHLY EMPLOYMENT UTILIZATION REPORT <i>(FORM chro cc-257)</i>	PROJECT AREA (MSA): _____ 2. EMPLOYERS FEIN NO. _____	3. PROJECT AAP GOALS MINORITY: _____ FEMALE: _____	4. REPORTING PERIOD FROM: _____ TO: _____
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GENERAL CONTRACTOR: PROJECT NAME: CONTRACT NUMBER:	NAME AND LOCATION OF CONTRACTOR (submitting report):	STATE AWARDING AGENCY:
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5. CONSTRUCTION TRADE (please identify)	6. WORK HOURS OF TRADE WORKERS EMPLOYED ON PROJECT CLASSIFICATION	6. WORK HOURS OF TRADE WORKERS EMPLOYED ON PROJECT										9. TOTAL NUMBER OF EMPLOYEES		10. TOTAL NUMBER OF MINORITY EMPLOYEES			
		6a. TOTAL HOURS BY TRADE		6b. BLACK (Not of Hispanic Origin)		6c. HISPANIC		6d. ASIAN OR PACIFIC ISLANDERS		6e. AMERICAN INDIAN OR ALASKAN NATIVE						7. MINORITY PERCENT	8. FEMALE PERCENT
		M	F	M	F	M	F	M	F	M	F						
	Journey Worker Apprentice Trainee SUB-TOTAL																
	Journey Worker Apprentice Trainee SUB-TOTAL																
	Journey Worker Apprentice Trainee SUB-TOTAL																
	Journey Worker Apprentice Trainee SUB-TOTAL																
	Journey Worker Apprentice Trainee SUB-TOTAL																
	TOTAL JOURNEY WORKERS																
	TOTAL APPRENTICES																
	TOTAL TRAINEES																
	GRAND TOTAL																

11. COMPANY OFFICIALS SIGNATURE , PRINTED NAME AND PRINTED TITLE	12. TELEPHONE NUMBER (Including area code)	13. DATE SIGNED	PAGE _____ OF _____
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Did not perform work on this project for this month (Please place an "X" in the box if your company did not perform work on this project for this month only.)

Commission on Human Rights and Opportunities Contract Compliance Unit 450 Columbus Blvd Ste 2 Hartford CT 06103	1. MONTHLY EMPLOYMENT UTILIZATION REPORT (FORM chro cc-257A)	PROJECT AREA (MSA): _____ 2. EMPLOYER'S FEIN NO.	3. PROJECT AAP GOALS MINORITY: _____ FEMALE: _____	4. REPORTING PERIOD FROM: _____ TO: _____												
GENERAL CONTRACTOR: PROJECT NAME: CONTRACT NUMBER:		NAME AND LOCATION OF CONTRACTOR (submitting report):		STATE AWARDING AGENCY:												
5. ON SITE PERSONNEL (OTHER THAN TRADE WORKERS) <i>(please identify specific job title)</i>	6. WORK HOURS OF WORKERS (OTHER THAN TRADE WORKERS) EMPLOYED ON PROJECT								9. TOTAL NUMBER OF EMPLOYEES	10. TOTAL NUMBER OF MINORITY EMPLOYEES						
	6a. TOTAL HOURS BY TRADE		6b. BLACK (Not of Hispanic Origin)		6c. HISPANIC		6d. ASIAN OR PACIFIC ISLANDERS		6e. AMERICAN INDIAN OR ALASKAN NATIVE		7. MINORITY PERCENT	8. FEMALE PERCENT	M F	M F	M F	
GRAND TOTAL WORKERS																
11. COMPANY OFFICIALS SIGNATURE , PRINTED NAME AND PRINTED TITLE					12. TELEPHONE NUMBER (Including area code)					13. DATE SIGNED			PAGE _____ OF _____			

APPENDIX 6

Insurance Agreement

BOROUGH OF NAUGATUCK: INSURANCE AGREEMENT

1. Indemnification and Insurance

_____ ('The Contractor') shall indemnify, defend and hold harmless the State of Connecticut, Borough of Naugatuck, its officials, officers, employees and designees caused in whole or in part to the fullest extent permitted by law from and against any and all claims, suits, actions, obligations, liabilities, damages, losses or injury (including the resulting death of a person), penalties, and expenses (including reasonable attorneys' fees) to the extent arising out of the performance of this Agreement or due to the Contractor's negligence or willful misconduct or omissions of the Contractor or its employees, agents, subcontractors or representatives.

Prior to the commencement of the work, and until final completion and acceptance of the work, the Contractor shall procure and maintain the following types of insurance and maintain all insurance coverage for the life of the contract, from an insurance company or companies with an A.M. Best Rating of A- (IX) or better. Such insurance will protect and indemnify the Borough of Naugatuck from all claims which may arise out of or result from the Contractor's obligations under this agreement, whether caused by the contractor or by a subcontractor or any person or entity directly or indirectly employed by the Contractor or by anyone for whose acts said Contractor may be liable.

- A. *Workers Compensation*: The Contractor shall provide workers compensation and employer's liability insurance that complies with the regulations of the State of Connecticut with limits no less than \$100,000 each accident by bodily injury; \$100,000 each accident by disease and a policy limit of \$500,000. Such policy shall contain a 'waiver of our right to recover from other endorsement' in favor of the Borough of Naugatuck.
- B. *Commercial General Liability Insurance*: The Contractor shall provide commercial general liability insurance policy that includes products, operations and completed operations as follows: Bodily injury & property damage with an occurrence limit of \$1,000,000: Personal & advertising injury limit of \$1,000,000 per occurrence: General aggregate limit of \$2,000,000 (other than products and completed operations): Products and completed operations aggregate limit of \$2,000,000. The policy shall name the Borough of Naugatuck as an additional insured on an ongoing basis.
In addition,
 - Such policy will be provided on an occurrence basis and will be primary and shall not contribute in any way to any insurance or self-insured retention carried by the additional insured.
 - Such policy shall contain a broad form contractual liability endorsement or similar wording within the policy form.
 - Such policy shall contain a waiver of subrogation in favor to the Borough of Naugatuck.
 - Such policy shall include coverage for the Contractor's sub-contractors, or any person or entity directly or indirectly employed by said Contractor or by anyone for whose acts said Contractor may be liable.
- C. *Commercial Automobile Insurance*: The Contractor shall provide commercial automobile insurance for any owned autos (symbol 1 or equivalent) in the amount of \$1,000,000 each accident covering bodily injury and property damage on a combined single limit. Such coverage shall also include hired and non-owned automobile coverage.
- D. *Umbrella Liability Insurance*: The Contractor shall provide commercial umbrella liability with limits no less than \$5,000,000 each occurrence and \$5,000,000 in the aggregate which shall be following form, without restriction or limitation, providing coverage over items (A), (B), (C), as noted above on a primary and non-contributory basis.
- E. *Pollution/Environmental Liability Insurance*: The Contractor shall provide pollution liability insurance with limits no less than \$1,000,000 each occurrence, and \$1,000,000 in the aggregate, that will cover clean up and remediation costs, as well as bodily injury. This can be covered under the general liability policy, or a standalone policy.

Prior to the issuing of any notice to proceed by the Borough of Naugatuck, the Contractor shall furnish the Borough of Naugatuck with Certificates of Insurance evidencing such insurance as set forth above. Said policies shall not be cancelled or permitted to lapse until final completion and approval of the performance of the work until ten (10) days after the Borough of Naugatuck has received written notice, by certified or registered mail, that the cancellation or change of such policy is contemplated.

The Contractor shall advise all their insurers of the contract provisions regarding insurance. The failure of the Contractor to notify insurers of the contract provision shall not relieve the Contractor from its insurance obligations under the Agreement. Non-fulfillment of the insurance provisions shall constitute a breach of this agreement and the Borough of Naugatuck retains the right to stop work until proper evidence of insurance is provided.

This document must be signed by an owner or officer of the company.

Signed by Contractor: _____ Date: _____

Printed Name of Contractor: _____ Title: _____

Address of Contractor: _____

Signed by *Borough of Naugatuck*: _____ Date: _____

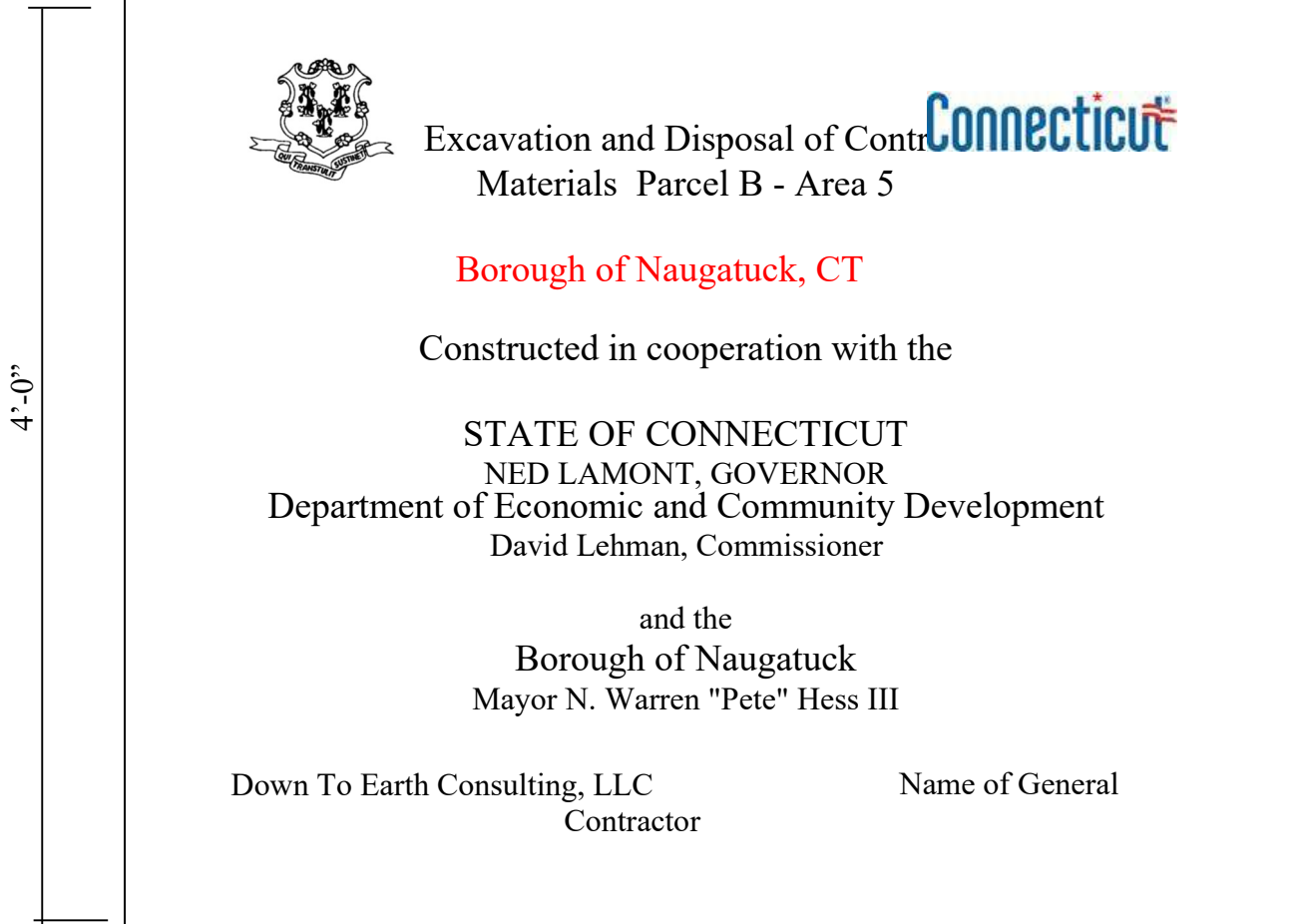
Printed Name of *Borough of Naugatuck*: _____ Title: _____

APPENDIX 7

Project Sign

**DEPARTMENT OF ECONOMIC & COMMUNITY DEVELOPMENT
PROJECT SIGN**

8'-0"



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

