City of New London

Department of Finance-Purchasing Agent
13 Masonic Street • New London, CT 06320 • Phone (860) 447-5215 • Fax (860) 447-5297

Request for Proposals
Specifications and Proposal Documents Attached

Proposal No.: 2023-13 CONL

Opening Date and Time: May 19, 2023 @ 2:00 P.M. Title:

Environmental Services for 43 Hempstead Street

Special Instructions:

1. **There will be two dates available for the mandatory pre-bid walk through/site inspections. Potential contractors must attend ONE of the two walks. Dates are April 27, 2023 at 2:30 P.M. or April 28, 2023 9:30 A.M. Meet at 43 Hempstead Street, New London, CT 06320.**
2. **All questions shall be submitted via email to both Tom Bombria at tbombria@newlondonct.org and Joshua Montague at jmontague@newlondonct.org. Questions shall be submitted no later than May 15, 2023 at 4:00 P.M.**
3. **All proposals must include one hard copy and one digital USB copy.**
4. **Public bid opening will be held May 19, 2023 promptly at 2:00 P.M. at 13 Masonic Street, New London, CT 06320. Enter the single door to the right and the finance conference room is located upstairs.**

The following information must appear in the lower left-hand corner of the envelope:

Sealed Proposal No.: 2023-13 CONL

Not to be opened until May 19, 2023 at 2:00PM

Mail proposal to:

Joshua Montague; Accounting/Purchasing Agent
City of New London
13 Masonic Street
New London, CT 06320

Proposals shall not be accepted after the Opening Date and Time indicated above and will be returned unopened.

Affirmative Action – Equal Opportunity Employer

City of New London

Department of Finance-Purchasing Agent
13 Masonic Street • New London, CT 06320 • Phone (860) 447-5215 • Fax (860) 447-5297

PLEASE RETURN THIS FORM IMMEDIATELY

Acknowledgement: Receipt of Request for Proposals

Bid No.: **2023-13 CONL**
Environmental Services for 43 Hempstead Street

Please take a moment to acknowledge receipt of the attached documents. Your compliance with this request will help us to maintain proper follow-up procedures and will ensure that you receive any addendum that may be issued.

Date Issued: April 20, 2023

Date documents received: _____/_____/_____

Do you plan to submit a response? Yes_____ No_____

Print or type the following information:

Company Name: _____

Address: _____

_____

Telephone: _____ Fax: _____

E-mail: _____

Received by: _____

Note: E-mailed acknowledgements are requested.

E-mail: jmontague@newlondonct.org

A cover sheet is not required.

Affirmative Action – Equal Opportunity Employer

City of New London

Department of Finance-Purchasing Agent
13 Masonic Street • New London, CT 06320 • Phone (860) 447-5215 • Fax (860) 447-5297

Standard Request for Proposals (RFP) and Contract Terms and Conditions

All Invitations for Bids issued by the City of New London (City) will bind Bidders to the terms and conditions listed below, unless specified otherwise in any individual Invitation for Bids.

Incorporated by reference into this contract are the provisions of Section 2-66 through 2-71 and Section 2-73 of the Code of Ordinances of the City of New London.

The contractor agrees to comply with the Code of Ordinances as they exist on the date of the contract and as they may be adopted or amended from time to time during the term of this contract and any amendments thereto.

Submission of Bids

1. Bids must be submitted on forms supplied by the City of New London. Telephone, facsimile or e-mail bids will not be accepted in response to an Invitation for Bids. An original and one (1) copy of the Proposal Form shall be returned to the Purchasing Agent.

2. The date and time bids are to be opened are given in each Invitation for Bids issued. Bids received after the specified date and time of the bid opening given in each Invitation for Bids will not be considered. Bid envelopes must clearly indicate the bid number as well as the date and time of the bid opening. The name and address of the bidder should appear in the upper left-hand corner of the envelope.

3. Incomplete proposal forms may result in the rejection of the bid Amendments to bids received by the Purchasing Agent after the date and time specified for the bid opening shall not be considered. Bids shall be computer prepared, typewritten or handwritten in ink. Bids submitted in pencil shall be rejected. A person duly authorized to sign bids for the bidder shall sign all bids. Unsigned bids shall be rejected. The person signing the Proposal Form or their authorized designee must initial errors, alterations or corrections on both the original and copy of the Proposal Form to be returned. In the event an authorized designee initials a correction, there must be written authorization from the person signing the Proposal Form to the person initialing the erasure, alterations or corrections. Failure to do so shall result in rejection of the bid for those items erased, altered or corrected and not initialed.

4. Conditional bids are subject to rejection in whole or in part. A conditional bid is defined as one that limits, modifies, expands or supplements any of the terms and conditions and/or specifications of the Invitation for Bids.

5. Alternate bids will not be considered. An alternate bid is defined as one that is submitted in addition to the bidder's primary response to the Invitation for Bids.

6. Prices should be extended in decimal, not fraction, to be net and shall include delivery and transportation charges fully prepaid by the Contractor to the destination specified in the Invitation for Bids and subject only to cash discount.

7. Pursuant to Sections 12-412 and 12-412(1) of the Connecticut General Statutes, the City of New London is exempt from the payment of excise, transportation and sales taxes imposed by the Federal Government and/or the State. Such taxes must not be included in the bid prices.

8. In the event of a discrepancy between the unit price and the extension, the unit price shall govern.

9. By its submission the Bidder represents that the bid is not made in connection with any other Bidder submitting a bid for the same commodity or commodities and is in all respects fair and without collusion or fraud.

10. All bids will be opened and read publicly and upon award are subject to public inspection.

Guaranty or Surety

11. Bid bonds, performance bonds, and labor and material bonds will be required as specified below. Guaranty or surety may be in the form of certified check. Bonds must meet the following requirements: Corporation – must be signed by an official of the corporation above their official title and the corporate seal must be affixed over the signature; Firm or Partnership - must be signed by all of the partners and indicate they are "doing business as"; Individual – must be signed by the owner and indicated as "Owner". The surety company executing the bond or countersigning must be licensed in Connecticut and an official of the surety company must sign the bond with the corporate seal affixed over the signature. Signatures of two (2) witnesses for both the principal and the surety must appear on the bond. Power of attorney for the official signing the bond for the surety company must be submitted with the bond.

    Bid Bond – Ten percent (10%) due at time of bid for all contract services and public works/construction projects that exceed twenty thousand dollars ($20,000.00)

    Performance Bond – One hundred percent (100%) of contract price for projects that exceed fifty thousand dollars ($50,000.00).

    Labor and Material Payment Bonds – One hundred percent (100%) of contract price for projects that exceed fifty thousand dollars ($50,000.00).

Award

12. Award of this contract will be made to the lowest responsible, qualified bidder and will be based on net cost and City specifications. The City of New London reserves the right to award this contract to other than the low bidder and to make multiple awards if deemed in the best interest of the City.

13. The City of New London allows a fifteen percent (15%) local vendor preference. A New London based business will be considered the lowest responsible bidder if its bid is within fifteen percent (15%) of the low bid and it is willing to accept the award at the low bid price. Any bidder claiming to be a New London based business must provide documentation that all of its motor vehicles are registered in New London and that payment of all of its property and motor vehicle taxes are current.

14. The City of New London may reject any bidder in default of any prior contract or guilty of misrepresentation or any bidder with a member of its firm in default or guilty of misrepresentation.

15. The Purchasing Agent may correct inaccurate awards resulting from clerical or administrative errors.

Other Requirements

16. The City has an employment preference goal that jobs be offered to local residents on public prevailing wage projects with thresholds great than $100,000 for renovation and $1,000,000 for new construction. For such projects, it is understood that contractors shall make a good faith effort to employ a participating workforce comprised of twenty-five (25%) local residents of New London County, CT, with residents of the City of New London, CT getting a priority representing fifty percent (50%) of said participation, which will include twenty-five percent (25%) female and minority.

17. The City has an employee training preference goal that apprenticeship opportunities be made available for state licensed trades on public prevailing wage projects with thresholds greater than $100,000 for renovation and $1,000,000 for new construction. For such projects, it is understood that contractors shall make a good faith effort to employ a minimum of ten percent (10%) of the workforce per state licensed trade as apprentices and, of this number, a minimum of fifty percent (50) shall be in the first year of apprenticeship training.

Contract

18. The existence of a contract shall be determined in accordance with the requirements set forth above.

19. The Contractor shall not assign or otherwise dispose its contract or its right, title or interest, or its power to execute such contract to any other person, firm or corporation without the prior written consent of the City of New London.

20. Failure of a Contractor to deliver commodities or perform services as specified will constitute authority for the City of New London to purchase these commodities or services on the open market. The contractor agrees to promptly reimburse the City of New London for excess cost of these purchases. The purchases will be deducted from the contracted quantities.

21. The Contractor agrees to hold the City of New London harmless from liability of any kind for the use of any copyrighted or uncopyrighted composition, secret process, patented or unpatented invention furnished or used in the performance of the Contract; Guarantee its products against defective material or workmanship; repair damages of any kind, for which it is responsible to the premises or equipment, to its own work or to the work of other contractors; obtain and pay for all licenses, permits, fees etc., and to give all notices and comply with all requirements of the City of New London, the State of Connecticut and the U.S. Government.

22. Insurance requirements generally apply to contract services, professional services and public works improvement/construction projects. The Contractor will carry commercial general liability insurance to protect the City of New London from loss. The following minimum limits shall be met:

    Bodily Injury and Property Damage – One million dollars ($1,000,000.00) each occurrence; two million dollars ($2,000,000.00) aggregate

    Products or Completed Operations - One million dollars ($1,000,000.00) each occurrence; two million dollars ($2,000,000.00) aggregate

    Professional Liability (Errors and Omissions) Coverage appropriate to the contractor's operations – Two million dollars ($2,000,000.00) each occurrence

    Commercial Automobile Coverage including owned, non-owned, leased and hired vehicles (if used on City of New London property) – One million dollars ($1,000,000.00) combined single limit for each accident.

    Workers' Compensation Coverage - Will be in accordance with State of Connecticut requirements at the time of bid.

    Any deductible or self-insured retention must be disclosed and any claim payments falling within the deductible shall be the responsibility of the contractor.

    The Contractor shall require all subcontractors to carry the same forms and minimum coverages that it is required to provide. Evidence of these coverages must be provided to the City of New London Purchasing Agent prior to the contractor or subcontractor coming onto the work site.

    All insurance policies shall be endorsed to the City of New London, its officers and employees as additional insured, and shall not be reduced or cancelled without thirty (30) days prior written notice to the Purchasing Agent. In addition, the contractor's insurance shall be primary as respects the City of New London, and any other insurance maintained by the City of New London shall be excess and not contributing insurance with the contractor's insurance.

    Contractor shall agree to maintain in force at all times during the contract the following minimum coverages and shall name the City of New London as an Additional Insured on a primary and non-contributory basis to all policies, except Workers Compensation. All policies should also include a Waiver of Subrogation. The Additional Insured Endorsement shall be written on ISO Form 2010 and 2037 or its equivalent and shall include coverage for Products/Completed Operations after the work is complete.

23. Notwithstanding any provision or language in this contract to the contrary, the Mayor may, without cause, terminate this contract upon approval by the City Council, whenever he/she determines that such termination is in the best interest of the City of New London. Any such termination shall be effected by delivery to the Contractor of a written notice of termination. The notice of termination shall be sent by registered mail to the Contractor address furnished to the City of New London for purposes of correspondence or by hand delivery. Upon receipt of such notice, the Contractor shall both Immediately discontinue all services affected (unless the notice directs otherwise) and deliver to the City of New London all data, drawings, specifications, reports, estimates, summaries, and such other information and materials as may have been accumulated by the Contractor in performing its duties under this contract, whether completed or in progress. All such documents, information and materials shall become the property of the City of New London. In the event of such termination, the contractor shall be entitled to reasonable compensation as determined by the Mayor, however, no compensation for lost profits shall be allowed.

Delivery

24. All products and equipment delivered must be new unless otherwise stated in the proposal specifications.

25. All deliveries will be to the locations specified by the City of New London. The City of New London does not have a loading dock therefore all Contractors will be responsible for inside delivery without assistance from City of New London personnel.

26. Payment terms are net 45 days after receipt of goods or invoice, whichever is later, unless otherwise specified.

27. Charges against a Contractor shall be deducted from current obligations. Money paid to the City of New London shall be payable to the Treasurer, City of New London.

Saving Clause

28. The Contractor shall not be liable for losses or delays in the fulfillment of the terms of the contract due to wars, acts of public enemies, strikes, fires, floods, acts of God or any other acts not within the control of or reasonably prevented by the Contractor. The contractor will give written notice of the cause and probable duration of any such delay.

Advertising

29. Contractors may not reference sales to the City of New London for advertising and promotional purposes without prior approval of the City of New London.

Rights

30. The City of New London has sole and exclusive right and title to all printed material produced for the City of New London and the Contractor shall not copyright the printed matter produced under this contract.

31. The Contractor assigns to the City of New London all rights, title and interests in and to all causes of action it may have under Section 4 of the Clayton Act, 15 USC 15, or under Chapter 624 of the Connecticut General Statutes. This assignment occurs when the contractor is awarded the contract.

32. The Contractor agrees that it is in compliance with all applicable federal, state and local regulations, including but not limited to Connecticut General Statutes Section 7-148i. The Contractor also agrees that it will hold the City of New London harmless and indemnify the City of New London from any action which may arise out of any act by the Contractor concerning lack of compliance with these laws and regulations. All purchases will be in compliance with Sections 22a-194 to 22a-194g of the Connecticut General Statutes related to product packaging.

33. This contract is subject to the provisions of Executive Order Number Three of Governor Thomas J. Meskill promulgated June 16, 1971, the provision of Executive Order Number Seventeen of Governor Thomas J. Meskill promulgated February 15, 1973 and Section 16 of Public Act 91-58, nondiscrimination regarding sexual orientation, and the provisions of Executive Order No. Sixteen of Governor John G. Rowland promulgated August 4, 1999 regarding Violence in the Workplace Prevention Policy.

Bid Form (Environmental Services for 43 Hempstead Street)

Lump Sum Price:

(Numerals): _____(Written): _____

Acknowledgment of Addenda, if any (please initial): _____

Bid Submittal: Sealed bids shall be addressed to: Joshua Montague, Accounting/Purchasing Agent, 13 Masonic Street, New London, CT 06320.

Sealed bids shall be submitted by **Friday, May 19, 2023, on or before 2:00 PM** Eastern Time. Bids received after this time will not be considered and will be returned unopened.
A formal bid opening will occur at 2:00 PM, May 19, 2023 in the Finance Conference Room located on the second floor of the finance building.

There will be a MANDATORY pre-bid meeting for this project. Two dates will be made available and proposers must attend ONE of the two meetings. The dates will be April 27, 2023 at 2:30 P.M. or April 28, 2023 at 9:30 A.M. Meet directly at 43 Hempstead Street, New London, CT 06320.

Questions regarding this bid/proposal shall be submitted via email to Tom Bombria at tbombria@newlondonct.org and Joshua Montague at jmontague@newlondonct.org and will be accepted until 4:00 P.M. May 15, 2023.

I have read and understand the content of this Request for Proposal (RFP):

Contractor: _____

Signed: _____Date:_____

Title: _____

Email:_____Phone:_____

Statement of Bidder's Qualifications

All items and questions must be answered and the data given must be clear and comprehensive. This statement must be notarized. If necessary, questions may be answered on separate attached sheets. The bidder may submit any additional information it desires.

1. Name of Bidder _____

2. Bidder's Tax Identification No. _____

3. Permanent main office address _____

_____

4. When organized _____

5. If corporation, where incorporated _____

6. Number of years have you been engaged in the contracting business under your present firm or trade name

_____

7. Contracts on hand: (Schedule these showing amount of each contract and the appropriate anticipated dates of completion) _____

_____

8. General character of work performed by your company _____

_____

9. Have you ever failed to complete any work awarded to you? If so, where and why? _____

_____

10. Have you ever defaulted on a contract? If so, where and why? _____

_____

11. List the more important projects recently completed by your company, stating the approximate cost for each, and the month and year completed (use a separate sheet if necessary)_____

_____

12. List your major equipment available for this Contract _____

_____

13. List your experience in work similar to this project _____

_____

14. List the background and experience of the principal members of your organization, including officers ___

_____

_____

15. List the work to be done by Subcontractors and summarize the dollar value of each Subcontract

_____

16. Credit available $ _____

17. Give Bank reference _____

18. Will you, upon request, fill out a detailed financial statement and furnish any other information that may be required by the Owner? _____

_____

19. The undersigned hereby authorizes and requests any person, firm or corporation to furnish any information requested by the Owner in verification of the recitals comprising this Statement of Bidder's Qualifications.

Dated _____

_____
(Name of Bidder)

By _____

Title _____

State of _____)
) ss.
County of _____)

_____ being duly sworn deposes and says that (s)he is _____

_____ of _____

_____, and that the answers to the foregoing items and questions and all statements therein contained are true and correct.

Subscribed and sworn to before me this

_____ day of _____ 20

_____
(Notary Public)

My Commission expires _____

NON COLLUSION AFFIDAVIT OF PRIME BIDDER

State of _____)
) ss.
County of _____)

_____, being first duly sworn, deposes and say 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 content 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 affiant, 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 of the Bid price or the Bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the City of New London, CT 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 of interest, including this affiant.

(6) That no officer or employee or person whose salary is payable in whole or in part from the City of New London is directly or indirectly interested in this Bid, or in the supplies, materials, equipment, work or labor to which it relates, or in any of the profits thereof.

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 content 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 New London, Connecticut;

(3) Such Subcontractor's Proposal is genuine and is not a collusive or sham Bid;

(4) Neither the said Subcontractors nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, 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 said Subcontractor's Proposal or to fix any overhead, profit or cost element of the Bid price or the Bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the City of New London, CT or any person interested in the proposed Contract; and

(5) The price or prices quoted in the attached 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 of interest, including this affiant.

(6) That no officer or employee or person whose salary is payable in whole or in part from the City of New London is directly or indirectly interested in this Bid, or in the supplies, materials, equipment, work or labor to which it relates, or in any of the profits thereof.

Signed _____

Title _____

Subscribed and sworn before me this

_____ day of _____ 20____

_____
(Notary Public)

My Commission expires _____

AFFIRMATIVE ACTION POLICY STATEMENT

(must be submitted on your firm's letterhead)

It has always been the policy and will continue to be the strong commitment of _____ _____ and all contractors and subcontractors who do business with this City to provide equal opportunities in employment to all qualified persons solely on the basis of job-related skills, ability and merit. _____will continue to take Affirmative Action to ensure that applicants are employed and that employees are treated during employment without regard to their race, color, religion, sex, national origin, ancestry, mental disorder (present or past history thereof), age, physical disability (but not limited to blindness), marital status, mental retardation, and criminal record. Such action includes, but is not limited to, 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._____ _____, and its subcontractors will continue to make good faith efforts to comply with all federal and state laws and policies which speak to equal employment opportunity.

The principles of Affirmative Action are addressed in the 13th, 14th, and 15th Amendments of the United States Constitution, Civil Rights Act of 1866, 1870, 1871, Equal Pay Act of 1963, Title VI and VII of - the 1964 United States Civil Rights Act, Presidential Executive Orders 11246, amended by 11375, (nondiscrimination under federal contracts), Act I, Sections 1 and 20 of the Connecticut Constitution, Governor Grasso's Executive Order Number 11, Governor O'Neill's Executive Order Number 9, the Connecticut Fair Employment Practices Law (Sec. 46a-60-69) of the Connecticut General Statutes, Connecticut Code of Fair Practices (46a-70-81), Deprivation of Civil Rights (46a-58(a)(d)), Public Accommodations Law (46a-63-64), Discrimination against Criminal Offenders (46a-80), definition of Blind (46a-51(1)), definition of Physically Disabled (46a-51(15)), definition. of Mentally Retarded (46a-51(13)), cooperation with the Commission on Human Rights and Opportunities (46 - 77), Sexual Harassment (46a-60(a)-8), Connecticut Credit Discrimination Law (36-436 through 439), Title I of the State and Local Fiscal Assistance Act of 1972.

This Affirmative Action Policy Statement re-affirms my personal commitment to the principles of Equal Employment Opportunity.

_____ _____

DATE Signature of Authorized Signer

CERTIFICATION OF BIDDER REGARDING EQUAL EMPLOYMENT OPPORTUNITY

INSTRUCTIONS

This certification is required pursuant to Executive Order 11246 Part II, Section 203(b), (30 FR 12319, 12935). The implementing rules and regulations provide that any bidder or prospective contractor, or any of its proposed subcontractors, shall state whether it has participated in any previous contract or subcontract subject to the equal opportunity clause; and, if so, whether it has filed all compliance reports due under applicable instructions.

Where the certification indicated that the bidder has not filed a compliance report due under applicable instructions, such bidder shall be required to submit a compliance report within seven (7) calendar days after bid opening. No contract shall be awarded unless such report is submitted.

CERTIFICATION BY BIDDER

Bidder's Name _____

Address and Zip Code _____

_____

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

   Yes ( ) No ( ) If answer is yes, identify the most recent contract.

2. Compliance reports were required to be filed in connection with such contract or subcontract
   Yes ( ) No ( ) If answer is yes, identify the most recent contract.

3. Bidder has filed all compliance reports due under applicable instructions, including SF. 100.
   Yes ( ) No ( ) Not Required ( )

4. If answer to Item 3 is "No" please explain in detail on reverse side of this Certification.

Certification - The information above is true and complete to the best of my knowledge and belief. A willfully false statement is punishable by law (U.S. Code, Title 18, Section 1001).

_____
Name and Title of Signer (Please Type)

_____ _____
Signature Date

CERTIFICATION OF NON-SEGREGATED FACILITIES

This Bidder certifies that he does not maintain or provide his employees any segregated facilities at any of his establishments, and that he does not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The Bidder certifies further that he will not maintain or provide for his employees any segregated facilities at any of his establishments, and that he will not permit his employees to perform their services at any locations, under his control, where segregated facilities are maintained. The Bidder agrees that a breach of his certification will be a violation of the Equal Opportunity clause and any Contract resulting from acceptance of this Bid. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, restrooms and washrooms, restaurants and other eating areas, timeclocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are, in fact, segregated on the basis of race, color, religion or national origin, because of habit, local custom or otherwise. The Bidder agrees that (except where he has obtained identical certification from proposed Subcontractors for specific time periods) he will obtain identical certifications from proposed Subcontractors prior to the award of Subcontracts exceeding $10,000 which are not exempt form the provisions of the Equal Opportunity clause; that he will retain such certifications in his files; and that he will forward the following notice to such proposed subcontractors (except where the proposed subcontractors have already submitted identical certifications for the specific time periods):

> "Notice to prospective subcontractors of requirements for non-segregated facilities. A certification of non-segregated facilities must be submitted prior to the award of a subcontract exceeding the Equal Opportunity Clause. The certification may be submitted either for each subcontract or for all subcontracts during a period (i.e. quarterly, semi-annually, or annually).

Note: The penalty for making false statements in offers is prescribed in 18 U.S.C. Paragraph 1001.

Date: _____ By: _____

Official Address: _____ Title: _____

_____

Vendor Registration Form

City of New London
Finance Department
13 Masonic Street,
New London, CT 06320
www.newlondonct.org

Please type or print your responses to the applicable items below. Your responses will assist in assuring that checks for payment are correctly issued.
Return form and a completed W-9 to jmontague@newlondonct.org or address listed to left.

1. Company Name *Invoices **must** be submitted using the name in 1b*	**a. Corporate Name:**		**b. Issue Checks to:** *(pay to the order of)*	
2. Mailing Address *Purchase Orders will be sent to this address*	Street / P.O. Box			Email
	City	State		Zip + 4
3. Contact Person *Contact for quotes, etc.*	Contact Person		Title	
4. Contact Information *Internet & Telephone*	Telephone #	Fax	Toll Free	Cell Phone
	EMail Address		Website Home Page	
5. Payment Address *Where to send payments see section 1b above*	Street Address			
	City	State		Zip + 4
6. Corporate Headquarters *If different from above*	Street / P.O. Box			
address, see section 1a above	City	State		Zip + 4
7. IRS required information: *Only one is required*	Federal Employer Identification Number		Social Security Number	
	The purpose of collecting the FEIN/SSN is to comply with IRS regulations to file 1099 forms.			
8. Type of Business:	☐ Corporation	☐ Sole Proprietor	☐ Partnership	
9. State of CT Approved Vendor	If your company is on the current State of Connecticut contract list please enter your contract number:			

10. Does your company accept purchase orders to provide goods and/or services? ☐ Y ☐ N

11. Is your company able to provide the goods and/or services prior to receiving check payment? ☐ Y ☐ N

12. Is your company a sole source provider? (If yes, please attach sole source provider letter.) ☐ Y ☐ N

13. Check which all that apply (if applicable):

☐ **Locally-owned Business** ☐ **Sustainable / Eco-friendly** ☐ **Minority-owned** ☐ **Women-owned** ☐ **Alternative Corp. Structure**

14. Please provide a brief description of goods/services provided:_____

I agree that I will not provide goods and/or services prior to the receipt of a Purchase Order provided by the City of New London.
Please note: orders and/or purchases without a valid Purchase Order are not authorized by the City of New London therefore, invoices for such orders/purchases may not be paid.

Agreed By: ____ Printed Name _____ Signature _____ Title _____

Updated 09/27/2021

Form **W-9**
(Rev. October 2018)
Department of the Treasury
Internal Revenue Service

Request for Taxpayer Identification Number and Certification

▶ Go to *www.irs.gov/FormW9* for instructions and the latest information.

Give Form to the requester. Do not send to the IRS.

Print or type. See Specific Instructions on page 3.

1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank.

2 Business name/disregarded entity name, if different from above

3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes.

☐ Individual/sole proprietor or single-member LLC ☐ C Corporation ☐ S Corporation ☐ Partnership ☐ Trust/estate

☐ Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) ▶ _____

Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is **not** disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner.

☐ Other (see instructions) ▶

4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3):

Exempt payee code (if any) _____

Exemption from FATCA reporting code (if any) _____

(Applies to accounts maintained outside the U.S.)

5 Address (number, street, and apt. or suite no.) See instructions.

Requester's name and address (optional)

6 City, state, and ZIP code

7 List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number

☐☐☐ – ☐☐ – ☐☐☐☐

or

Employer identification number

☐☐ – ☐☐☐☐☐☐☐

Part II Certification

Under penalties of perjury, I certify that:

1. The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
2. I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
3. I am a U.S. citizen or other U.S. person (defined below); and
4. The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here **Signature of U.S. person ▶** **Date ▶**

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to *www.irs.gov/FormW9.*

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

- Form 1099-INT (interest earned or paid)
- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See What is backup withholding, *later.*

2023-13 CONL Environmental Services for 43 Hempstead Street

By signing the filled-out form, you:

1. Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),

2. Certify that you are not subject to backup withholding, or

3. Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income, and

4. Certify that FATCA code(s) entered on this form (if any) indicating that you are exempt from the FATCA reporting, is correct. See *What is FATCA reporting,* later, for further information.

Note: If you are a U.S. person and a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien;
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States;
- An estate (other than a foreign estate); or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax under section 1446 on any foreign partners' share of effectively connected taxable income from such business. Further, in certain cases where a Form W-9 has not been received, the rules under section 1446 require a partnership to presume that a partner is a foreign person, and pay the section 1446 withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid section 1446 withholding on your share of partnership income.

In the cases below, the following person must give Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States.

- In the case of a disregarded entity with a U.S. owner, the U.S. owner of the disregarded entity and not the entity;
- In the case of a grantor trust with a U.S. grantor or other U.S. owner, generally, the U.S. grantor or other U.S. owner of the grantor trust and not the trust; and
- In the case of a U.S. trust (other than a grantor trust), the U.S. trust (other than a grantor trust) and not the beneficiaries of the trust.

Foreign person. If you are a foreign person or the U.S. branch of a foreign bank that has elected to be treated as a U.S. person, do not use Form W-9. Instead, use the appropriate Form W-8 or Form 8233 (see Pub. 515, Withholding of Tax on Nonresident Aliens and Foreign Entities).

Nonresident alien who becomes a resident alien. Generally, only a nonresident alien individual may use the terms of a tax treaty to reduce or eliminate U.S. tax on certain types of income. However, most tax treaties contain a provision known as a "saving clause." Exceptions specified in the saving clause may permit an exemption from tax to continue for certain types of income even after the payee has otherwise become a U.S. resident alien for tax purposes.

If you are a U.S. resident alien who is relying on an exception contained in the saving clause of a tax treaty to claim an exemption from U.S. tax on certain types of income, you must attach a statement to Form W-9 that specifies the following five items.

1. The treaty country. Generally, this must be the same treaty under which you claimed exemption from tax as a nonresident alien.

2. The treaty article addressing the income.

3. The article number (or location) in the tax treaty that contains the saving clause and its exceptions.

4. The type and amount of income that qualifies for the exemption from tax.

5. Sufficient facts to justify the exemption from tax under the terms of the treaty article.

Example. Article 20 of the U.S.-China income tax treaty allows an exemption from tax for scholarship income received by a Chinese student temporarily present in the United States. Under U.S. law, this student will become a resident alien for tax purposes if his or her stay in the United States exceeds 5 calendar years. However, paragraph 2 of the first Protocol to the U.S.-China treaty (dated April 30, 1984) allows the provisions of Article 20 to continue to apply even after the Chinese student becomes a resident alien of the United States. A Chinese student who qualifies for this exception (under paragraph 2 of the first protocol) and is relying on this exception to claim an exemption from tax on his or her scholarship or fellowship income would attach to Form W-9 a statement that includes the information described above to support that exemption.

If you are a nonresident alien or a foreign entity, give the requester the appropriate completed Form W-8 or Form 8233.

Backup Withholding

What is backup withholding? Persons making certain payments to you must under certain conditions withhold and pay to the IRS 24% of such payments. This is called "backup withholding." Payments that may be subject to backup withholding include interest, tax-exempt interest, dividends, broker and barter exchange transactions, rents, royalties, nonemployee pay, payments made in settlement of payment card and third party network transactions, and certain payments from fishing boat operators. Real estate transactions are not subject to backup withholding.

You will not be subject to backup withholding on payments you receive if you give the requester your correct TIN, make the proper certifications, and report all your taxable interest and dividends on your tax return.

Payments you receive will be subject to backup withholding if:

1. You do not furnish your TIN to the requester,

2. You do not certify your TIN when required (see the instructions for Part II for details),

3. The IRS tells the requester that you furnished an incorrect TIN,

4. The IRS tells you that you are subject to backup withholding because you did not report all your interest and dividends on your tax return (for reportable interest and dividends only), or

5. You do not certify to the requester that you are not subject to backup withholding under 4 above (for reportable interest and dividend accounts opened after 1983 only).

Certain payees and payments are exempt from backup withholding. See *Exempt payee code,* later, and the separate Instructions for the Requester of Form W-9 for more information.

Also see *Special rules for partnerships,* earlier.

What is FATCA Reporting?

The Foreign Account Tax Compliance Act (FATCA) requires a participating foreign financial institution to report all United States account holders that are specified United States persons. Certain payees are exempt from FATCA reporting. See *Exemption from FATCA reporting code,* later, and the Instructions for the Requester of Form W-9 for more information.

Updating Your Information

You must provide updated information to any person to whom you claimed to be an exempt payee if you are no longer an exempt payee and anticipate receiving reportable payments in the future from this person. For example, you may need to provide updated information if you are a C corporation that elects to be an S corporation, or if you no longer are tax exempt. In addition, you must furnish a new Form W-9 if the name or TIN changes for the account; for example, if the grantor of a grantor trust dies.

Penalties

Failure to furnish TIN. If you fail to furnish your correct TIN to a requester, you are subject to a penalty of $50 for each such failure unless your failure is due to reasonable cause and not to willful neglect.

Civil penalty for false information with respect to withholding. If you make a false statement with no reasonable basis that results in no backup withholding, you are subject to a $500 penalty.

Criminal penalty for falsifying information. Willfully falsifying certifications or affirmations may subject you to criminal penalties including fines and/or imprisonment.

Misuse of TINs. If the requester discloses or uses TINs in violation of federal law, the requester may be subject to civil and criminal penalties.

Specific Instructions

Line 1

You must enter one of the following on this line; **do not** leave this line blank. The name should match the name on your tax return.

If this Form W-9 is for a joint account (other than an account maintained by a foreign financial institution (FFI)), list first, and then circle, the name of the person or entity whose number you entered in Part I of Form W-9. If you are providing Form W-9 to an FFI to document a joint account, each holder of the account that is a U.S. person must provide a Form W-9.

a. **Individual.** Generally, enter the name shown on your tax return. If you have changed your last name without informing the Social Security Administration (SSA) of the name change, enter your first name, the last name as shown on your social security card, and your new last name.

Note: ITIN applicant: Enter your individual name as it was entered on your Form W-7 application, line 1a. This should also be the same as the name you entered on the Form 1040/1040A/1040EZ you filed with your application.

b. **Sole proprietor or single-member LLC.** Enter your individual name as shown on your 1040/1040A/1040EZ on line 1. You may enter your business, trade, or "doing business as" (DBA) name on line 2.

c. **Partnership, LLC that is not a single-member LLC, C corporation, or S corporation.** Enter the entity's name as shown on the entity's tax return on line 1 and any business, trade, or DBA name on line 2.

d. **Other entities.** Enter your name as shown on required U.S. federal tax documents on line 1. This name should match the name shown on the charter or other legal document creating the entity. You may enter any business, trade, or DBA name on line 2.

e. **Disregarded entity.** For U.S. federal tax purposes, an entity that is disregarded as an entity separate from its owner is treated as a "disregarded entity." See Regulations section 301.7701-2(c)(2)(iii). Enter the owner's name on line 1. The name of the entity entered on line 1 should never be a disregarded entity. The name on line 1 should be the name shown on the income tax return on which the income should be reported. For example, if a foreign LLC that is treated as a disregarded entity for U.S. federal tax purposes has a single owner that is a U.S. person, the U.S. owner's name is required to be provided on line 1. If the direct owner of the entity is also a disregarded entity, enter the first owner that is not disregarded for federal tax purposes. Enter the disregarded entity's name on line 2, "Business name/disregarded entity name." If the owner of the disregarded entity is a foreign person, the owner must complete an appropriate Form W-8 instead of a Form W-9. This is the case even if the foreign person has a U.S. TIN.

Line 2

If you have a business name, trade name, DBA name, or disregarded entity name, you may enter it on line 2.

Line 3

Check the appropriate box on line 3 for the U.S. federal tax classification of the person whose name is entered on line 1. Check only one box on line 3.

IF the entity/person on line 1 is a(n) . . .	THEN check the box for . . .
• Corporation	Corporation
• Individual • Sole proprietorship, or • Single-member limited liability company (LLC) owned by an individual and disregarded for U.S. federal tax purposes.	Individual/sole proprietor or single-member LLC
• LLC treated as a partnership for U.S. federal tax purposes, • LLC that has filed Form 8832 or 2553 to be taxed as a corporation, or • LLC that is disregarded as an entity separate from its owner but the owner is another LLC that is not disregarded for U.S. federal tax purposes.	Limited liability company and enter the appropriate tax classification. (P= Partnership; C= C corporation; or S= S corporation)
• Partnership	Partnership
• Trust/estate	Trust/estate

Line 4, Exemptions

If you are exempt from backup withholding and/or FATCA reporting, enter in the appropriate space on line 4 any code(s) that may apply to you.

Exempt payee code.

- Generally, individuals (including sole proprietors) are not exempt from backup withholding.
- Except as provided below, corporations are exempt from backup withholding for certain payments, including interest and dividends.
- Corporations are not exempt from backup withholding for payments made in settlement of payment card or third party network transactions.
- Corporations are not exempt from backup withholding with respect to attorneys' fees or gross proceeds paid to attorneys, and corporations that provide medical or health care services are not exempt with respect to payments reportable on Form 1099-MISC.

The following codes identify payees that are exempt from backup withholding. Enter the appropriate code in the space in line 4.

1—An organization exempt from tax under section 501(a), any IRA, or a custodial account under section 403(b)(7) if the account satisfies the requirements of section 401(f)(2)

2—The United States or any of its agencies or instrumentalities

3—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

4—A foreign government or any of its political subdivisions, agencies, or instrumentalities

5—A corporation

6—A dealer in securities or commodities required to register in the United States, the District of Columbia, or a U.S. commonwealth or possession

7—A futures commission merchant registered with the Commodity Futures Trading Commission

8—A real estate investment trust

9—An entity registered at all times during the tax year under the Investment Company Act of 1940

10—A common trust fund operated by a bank under section 584(a)

11—A financial institution

12—A middleman known in the investment community as a nominee or custodian

13—A trust exempt from tax under section 664 or described in section 4947

The following chart shows types of payments that may be exempt from backup withholding. The chart applies to the exempt payees listed above, 1 through 13.

IF the payment is for . . .	THEN the payment is exempt for . . .
Interest and dividend payments	All exempt payees except for 7
Broker transactions	Exempt payees 1 through 4 and 6 through 11 and all C corporations. S corporations must not enter an exempt payee code because they are exempt only for sales of noncovered securities acquired prior to 2012.
Barter exchange transactions and patronage dividends	Exempt payees 1 through 4
Payments over $600 required to be reported and direct sales over $5,000[1]	Generally, exempt payees 1 through 5[2]
Payments made in settlement of payment card or third party network transactions	Exempt payees 1 through 4

[1] See Form 1099-MISC, Miscellaneous Income, and its instructions.

[2] However, the following payments made to a corporation and reportable on Form 1099-MISC are not exempt from backup withholding: medical and health care payments, attorneys' fees, gross proceeds paid to an attorney reportable under section 6045(f), and payments for services paid by a federal executive agency.

Exemption from FATCA reporting code. The following codes identify payees that are exempt from reporting under FATCA. These codes apply to persons submitting this form for accounts maintained outside of the United States by certain foreign financial institutions. Therefore, if you are only submitting this form for an account you hold in the United States, you may leave this field blank. Consult with the person requesting this form if you are uncertain if the financial institution is subject to these requirements. A requester may indicate that a code is not required by providing you with a Form W-9 with "Not Applicable" (or any similar indication) written or printed on the line for a FATCA exemption code.

A—An organization exempt from tax under section 501(a) or any individual retirement plan as defined in section 7701(a)(37)

B—The United States or any of its agencies or instrumentalities

C—A state, the District of Columbia, a U.S. commonwealth or possession, or any of their political subdivisions or instrumentalities

D—A corporation the stock of which is regularly traded on one or more established securities markets, as described in Regulations section 1.1472-1(c)(1)(i)

E—A corporation that is a member of the same expanded affiliated group as a corporation described in Regulations section 1.1472-1(c)(1)(i)

F—A dealer in securities, commodities, or derivative financial instruments (including notional principal contracts, futures, forwards, and options) that is registered as such under the laws of the United States or any state

G—A real estate investment trust

H—A regulated investment company as defined in section 851 or an entity registered at all times during the tax year under the Investment Company Act of 1940

I—A common trust fund as defined in section 584(a)

J—A bank as defined in section 581

K—A broker

L—A trust exempt from tax under section 664 or described in section 4947(a)(1)

M—A tax exempt trust under a section 403(b) plan or section 457(g) plan

Note: You may wish to consult with the financial institution requesting this form to determine whether the FATCA code and/or exempt payee code should be completed.

Line 5

Enter your address (number, street, and apartment or suite number). This is where the requester of this Form W-9 will mail your information returns. If this address differs from the one the requester already has on file, write NEW at the top. If a new address is provided, there is still a chance the old address will be used until the payor changes your address in their records.

Line 6

Enter your city, state, and ZIP code.

Part I. Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. If you are a resident alien and you do not have and are not eligible to get an SSN, your TIN is your IRS individual taxpayer identification number (ITIN). Enter it in the social security number box. If you do not have an ITIN, see *How to get a TIN* below.

If you are a sole proprietor and you have an EIN, you may enter either your SSN or EIN.

If you are a single-member LLC that is disregarded as an entity separate from its owner, enter the owner's SSN (or EIN, if the owner has one). Do not enter the disregarded entity's EIN. If the LLC is classified as a corporation or partnership, enter the entity's EIN.

Note: See *What Name and Number To Give the Requester,* later, for further clarification of name and TIN combinations.

How to get a TIN. If you do not have a TIN, apply for one immediately. To apply for an SSN, get Form SS-5, Application for a Social Security Card, from your local SSA office or get this form online at *www.SSA.gov*. You may also get this form by calling 1-800-772-1213. Use Form W-7, Application for IRS Individual Taxpayer Identification Number, to apply for an ITIN, or Form SS-4, Application for Employer Identification Number, to apply for an EIN. You can apply for an EIN online by accessing the IRS website at *www.irs.gov/Businesses* and clicking on Employer Identification Number (EIN) under Starting a Business. Go to *www.irs.gov/Forms* to view, download, or print Form W-7 and/or Form SS-4. Or, you can go to *www.irs.gov/OrderForms* to place an order and have Form W-7 and/or SS-4 mailed to you within 10 business days.

If you are asked to complete Form W-9 but do not have a TIN, apply for a TIN and write "Applied For" in the space for the TIN, sign and date the form, and give it to the requester. For interest and dividend payments, and certain payments made with respect to readily tradable instruments, generally you will have 60 days to get a TIN and give it to the requester before you are subject to backup withholding on payments. The 60-day rule does not apply to other types of payments. You will be subject to backup withholding on all such payments until you provide your TIN to the requester.

Note: Entering "Applied For" means that you have already applied for a TIN or that you intend to apply for one soon.

Caution: A disregarded U.S. entity that has a foreign owner must use the appropriate Form W-8.

Part II. Certification

To establish to the withholding agent that you are a U.S. person, or resident alien, sign Form W-9. You may be requested to sign by the withholding agent even if item 1, 4, or 5 below indicates otherwise.

For a joint account, only the person whose TIN is shown in Part I should sign (when required). In the case of a disregarded entity, the person identified on line 1 must sign. Exempt payees, see *Exempt payee code,* earlier.

Signature requirements. Complete the certification as indicated in items 1 through 5 below.

1. Interest, dividend, and barter exchange accounts opened before 1984 and broker accounts considered active during 1983. You must give your correct TIN, but you do not have to sign the certification.

2. Interest, dividend, broker, and barter exchange accounts opened after 1983 and broker accounts considered inactive during 1983. You must sign the certification or backup withholding will apply. If you are subject to backup withholding and you are merely providing your correct TIN to the requester, you must cross out item 2 in the certification before signing the form.

3. Real estate transactions. You must sign the certification. You may cross out item 2 of the certification.

4. Other payments. You must give your correct TIN, but you do not have to sign the certification unless you have been notified that you have previously given an incorrect TIN. "Other payments" include payments made in the course of the requester's trade or business for rents, royalties, goods (other than bills for merchandise), medical and health care services (including payments to corporations), payments to a nonemployee for services, payments made in settlement of payment card and third party network transactions, payments to certain fishing boat crew members and fishermen, and gross proceeds paid to attorneys (including payments to corporations).

5. Mortgage interest paid by you, acquisition or abandonment of secured property, cancellation of debt, qualified tuition program payments (under section 529), ABLE accounts (under section 529A), IRA, Coverdell ESA, Archer MSA or HSA contributions or distributions, and pension distributions. You must give your correct TIN, but you do not have to sign the certification.

What Name and Number To Give the Requester

For this type of account:	Give name and SSN of:
1. Individual	The individual
2. Two or more individuals (joint account) other than an account maintained by an FFI	The actual owner of the account or, if combined funds, the first individual on the account[1]
3. Two or more U.S. persons (joint account maintained by an FFI)	Each holder of the account
4. Custodial account of a minor (Uniform Gift to Minors Act)	The minor[2]
5. a. The usual revocable savings trust (grantor is also trustee)	The grantor-trustee[1]
b. So-called trust account that is not a legal or valid trust under state law	The actual owner[1]
6. Sole proprietorship or disregarded entity owned by an individual	The owner[3]
7. Grantor trust filing under Optional Form 1099 Filing Method 1 (see Regulations section 1.671-4(b)(2)(i)(A))	The grantor*
For this type of account:	**Give name and EIN of:**
8. Disregarded entity not owned by an individual	The owner
9. A valid trust, estate, or pension trust	Legal entity[4]
10. Corporation or LLC electing corporate status on Form 8832 or Form 2553	The corporation
11. Association, club, religious, charitable, educational, or other tax-exempt organization	The organization
12. Partnership or multi-member LLC	The partnership
13. A broker or registered nominee	The broker or nominee
14. Account with the Department of Agriculture in the name of a public entity (such as a state or local government, school district, or prison) that receives agricultural program payments	The public entity
15. Grantor trust filing under the Form 1041 Filing Method or the Optional Form 1099 Filing Method 2 (see Regulations section 1.671-4(b)(2)(i)(B))	The trust

[1] List first and circle the name of the person whose number you furnish. If only one person on a joint account has an SSN, that person's number must be furnished.

[2] Circle the minor's name and furnish the minor's SSN.

[3] You must show your individual name and you may also enter your business or DBA name on the "Business name/disregarded entity" name line. You may use either your SSN or EIN (if you have one), but the IRS encourages you to use your SSN.

[4] List first and circle the name of the trust, estate, or pension trust. (Do not furnish the TIN of the personal representative or trustee unless the legal entity itself is not designated in the account title.) Also see *Special rules for partnerships,* earlier.

***Note:** The grantor also must provide a Form W-9 to trustee of trust.

Note: If no name is circled when more than one name is listed, the number will be considered to be that of the first name listed.

Secure Your Tax Records From Identity Theft

Identity theft occurs when someone uses your personal information such as your name, SSN, or other identifying information, without your permission, to commit fraud or other crimes. An identity thief may use your SSN to get a job or may file a tax return using your SSN to receive a refund.

To reduce your risk:

- Protect your SSN,
- Ensure your employer is protecting your SSN, and
- Be careful when choosing a tax preparer.

If your tax records are affected by identity theft and you receive a notice from the IRS, respond right away to the name and phone number printed on the IRS notice or letter.

If your tax records are not currently affected by identity theft but you think you are at risk due to a lost or stolen purse or wallet, questionable credit card activity or credit report, contact the IRS Identity Theft Hotline at 1-800-908-4490 or submit Form 14039.

For more information, see Pub. 5027, Identity Theft Information for Taxpayers.

Victims of identity theft who are experiencing economic harm or a systemic problem, or are seeking help in resolving tax problems that have not been resolved through normal channels, may be eligible for Taxpayer Advocate Service (TAS) assistance. You can reach TAS by calling the TAS toll-free case intake line at 1-877-777-4778 or TTY/TDD 1-800-829-4059.

Protect yourself from suspicious emails or phishing schemes. Phishing is the creation and use of email and websites designed to mimic legitimate business emails and websites. The most common act is sending an email to a user falsely claiming to be an established legitimate enterprise in an attempt to scam the user into surrendering private information that will be used for identity theft.

The IRS does not initiate contacts with taxpayers via emails. Also, the IRS does not request personal detailed information through email or ask taxpayers for the PIN numbers, passwords, or similar secret access information for their credit card, bank, or other financial accounts.

If you receive an unsolicited email claiming to be from the IRS, forward this message to *phishing@irs.gov*. You may also report misuse of the IRS name, logo, or other IRS property to the Treasury Inspector General for Tax Administration (TIGTA) at 1-800-366-4484. You can forward suspicious emails to the Federal Trade Commission at *spam@uce.gov* or report them at *www.ftc.gov/complaint*. You can contact the FTC at *www.ftc.gov/idtheft* or 877-IDTHEFT (877-438-4338). If you have been the victim of identity theft, see *www.IdentityTheft.gov* and Pub. 5027.

Visit *www.irs.gov/IdentityTheft* to learn more about identity theft and how to reduce your risk.

Privacy Act Notice

Section 6109 of the Internal Revenue Code requires you to provide your correct TIN to persons (including federal agencies) who are required to file information returns with the IRS to report interest, dividends, or certain other income paid to you; mortgage interest you paid; the acquisition or abandonment of secured property; the cancellation of debt; or contributions you made to an IRA, Archer MSA, or HSA. The person collecting this form uses the information on the form to file information returns with the IRS, reporting the above information. Routine uses of this information include giving it to the Department of Justice for civil and criminal litigation and to cities, states, the District of Columbia, and U.S. commonwealths and possessions for use in administering their laws. The information also may be disclosed to other countries under a treaty, to federal and state agencies to enforce civil and criminal laws, or to federal law enforcement and intelligence agencies to combat terrorism. You must provide your TIN whether or not you are required to file a tax return. Under section 3406, payers must generally withhold a percentage of taxable interest, dividend, and certain other payments to a payee who does not give a TIN to the payer. Certain penalties may also apply for providing false or fraudulent information.

CONTRACT FORMS

CONTRACT FOR SERVICES

THIS AGREEMENT made and entered into this ***Xth*** day of ***(MONTH), 2022***, by and between (***Company Name, Address)***, hereinafter called **"Contractor"** and the City of New London, 181 State Street, New London, CT 06320, hereinafter called **"City."**

WHEREAS, the City desires to enter into a contract for the ***(state nature of work)*** and the Contractor represents itself as competent and qualified to accomplish the specific requirements of this contract to the satisfaction of the City, therefore this contract is entered into under the following terms and conditions:

1. The Contractor agrees to perform the services described below or in attachments if applicable. Only those attachments specifically referenced in this Contract for Services shall apply. The terms and conditions as contained in this Contract for Services shall take precedence over any conflicting terms as may be attached hereto.

2. Term of the Contract: The start date for this Contract shall be ***(Month, Day), 2022*** and the completion date of this Contract shall be ***(Month, Day), 2022***, time being of the essence***.***

3. Contract Price: The City shall pay the Contractor for the performance of the Contract in current funds, for the total quantities of work performed for the price of ***(Dollar Amount in words) ($)***.

Based upon Applications for Payment submitted by the Contractor, the City shall make progress payments on account of the Contract Sum to the Contractor. The period covered by each Application for Payment shall be one calendar month ending on the last day of the month. The City shall make payment to the Contractor within 30 days after the City receives the Application for Payment. With each Application for Payment, the Contractor shall submit the most recent schedule of values, which allocates the Contract Price among the various portions of the Work. The Applications for Payments shall indicate the percentage of completion of each portion of the Work. Such Applications may include requests for payment on account of changes in the Work, but not yet included in Change Orders. Partial payment shall be due Contractor in the amount of 95.0% of the work in place.

Final payment, constituting the entire unpaid balance of the Contract Price, including Change Orders, shall be made by the City to the Contractor no later than 30 days after the Contractor has fully performed the Contract and has provided to the Owner a final Application for Payment.

4. Contract Documents: The Contract Documents consist of this Agreement, the Standard Bid and Contract Terms and Conditions, the Instructions to Bidders, the Contractor's bid as accepted by the City, the General and Special Conditions of the Work, the Technical Specifications, the drawings and all Addenda attached hereto.

The Contract Documents are complementary and what is called for by any one shall be as binding as if called for by all. In the event of any conflict or inconsistency between the provisions of this Agreement and the provisions of any of the other Contract Documents, the provisions of the Agreement shall prevail.

Reference to standard specifications, manuals or codes of any technical society, organization or association, or to the laws or regulations of any governmental authority, whether such reference be specific or by implication, shall mean the edition of the standard specification, manual, code or laws or regulations identified in the reference. In the event a particular edition is not identified, the reference shall mean the latest edition in effect at the time of receipt of the bid. However, no provision of any referenced standard specification, manual or code (whether or not specifically incorporated by reference in the Contract Documents) shall change the duties and responsibilities of the City, the Contractor or any of their consultants, agents or employees from those set forth in the Contract Documents.

5. Obligations And Liability Of The Contractor: The Contractor shall do all the work and perform and furnish all the labor, services, materials, equipment, plant, machinery, apparatus, appliances, tools, supplies and all other things (except as otherwise expressly provided herein) necessary and as herein specified for the proper performance and completion of the Work in the manner and within the time hereinafter specified, in strict accordance with the Drawings, Specifications and other Contract Documents, in conformity with the directions and to the satisfaction of the City, and at the prices herein agreed upon therefor.

All parts of the Work and all fixtures, equipment, apparatus and other items indicated on the Drawings and not mentioned in the Specifications, or vice versa, and all work and material usual and necessary to make the Work complete in all its parts, including all incidental work necessary to make it complete and satisfactory and ready for use and operation, whether

or not they are indicated on the Drawings or mentioned in the Specifications, shall be furnished and executed the same as if they were called for both by the Drawings and by the Specifications.

The Contractor shall coordinate his operations with those of any other contractors who may be employed on other work of the City, shall avoid interference therewith, and shall cooperate in the arrangements for storage of materials and equipment.

The Contractor shall conduct his work so as to interfere as little as possible with private business and public travel. Wherever and whenever necessary or required, he shall maintain fences, furnish watchmen, maintain lights, and take such other precaution as may be necessary to protect life and property.

The Contractor shall indemnify and save harmless the City and its officers, agents, servants and employees, from and against any and all claims, demands, suits, proceedings, liabilities, judgments, awards, losses, damages, costs and expenses, including attorneys' fees, on account of bodily injury, sickness, disease or death sustained by any person or persons or injury or damage to or destruction of any property, directly or indirectly arising out of, relating to or in connection with the Work, whether or not due to or claimed to be due in whole or in part to the active, passive or concurrent negligence or fault of the Contractor, his officers, agents, servants or employees, any of his subcontractors, the City or any of their respective officers, agents, servants or employees and/or any other person or persons, and whether or not such claims, demands, suits or proceedings are just, unjust, groundless, false or fraudulent; and the Contractor shall and does hereby assume and agrees to pay for the defense of all such claims, demands, suits and proceedings, provided, however, that the Contractor shall not be required to indemnify the City, its officers, agents, servants, or employees, against any such damages occasioned solely by acts or omissions of the owner other than supervisory acts or omissions of the City in the Work.

The Contractor shall have complete responsibility for the Work and the protection thereof, and for preventing injuries to persons and damage to the Work and property and utilities on or about the Work, until final completion and final acceptance thereof. He shall in no way be relieved of his responsibility by any right of the City to give permission or directions relating to any part of the Work, by any such permission or directions given, or by failure of the City to give such permission or directions. The Contractor shall bear all costs, expenses, losses and damages on account of the quantity or character of the Work or the nature of the land (including but not limited to subsurface conditions) in or under or on which the Work is done being different from that indicated or shown in the Contract Documents or from what was estimated or expected, or on account of the weather, elements, or other causes unless information regarding such condition(s) was known and not disclosed by the City prior to Contractor commencing its work.

The Contractor shall conduct his operations so as not to damage existing structures or work installed either by him or by other contractors. In case of any such damage resulting from his operations, he shall repair and make good as new the damaged portions at his own expense with the consent of the damaged party. In the event that consent is not given, the Contractor shall continue liable for the damage caused.

The Contractor shall be as fully responsible to the City for the acts and omissions of his subcontractors, their officers, agents, servants and employees as he is for his own acts and omissions and those of his own officers, agents, servants and employees.

Should the Contractor sustain any loss, damage or delay through any act or omission of any other contractor or any subcontractor of any such other contractor, the Contractor shall have no claim against the City therefor, other than for an extension of time, but shall have recourse solely to such other contractor or subcontractor.

If any other contractor or any subcontractor of any such other contractor shall suffer or claim to have suffered loss, damage or delay by reason of the acts or omissions of the Contractor or of any of his subcontractors, the Contractor agrees to assume the defense against any such claim and to reimburse such other contractor or subcontractor for such loss or damage.

The Contractor agrees to and does hereby indemnify and save harmless the City from and against any and all claims by such other contractors or subcontractors alleging such loss, damage or delay and from and against any and all claims, demands, suits, proceedings, liabilities, judgments, awards, losses, damages, costs and expenses, including attorneys' fees, arising out of, relating to or resulting from such claims.

The Contractor shall promptly pay all federal, state and local taxes which may be assessed against him in connection with the Work or his operations under this Agreement and/or the other Contract Documents, including, but not limited to, taxes attributable to the purchase of material and equipment, to the performance of services, and the employment of persons in the prosecution of the Work.

Because (i) anticipated damages hereunder are uncertain in amount and difficult to prove, (ii) the parties hereto wish to liquidate said damages in advance, and (iii) monies paid pursuant to this Agreement are not greatly disproportionate to the damage reasonably anticipated in the event of default, it is further agreed that if Contractor shall not complete all of its obligations under this contract within the time period and by the completion date specified in Paragraph 2 herein, Contractor shall pay liquidated damages to the City at a rate of $___n/a_____ per day for every day beyond the completion date until such time as the Contractor finally completes all of its obligations under this Contract.

6. Supervision Of Work: The Contractor shall be solely responsible for supervision of the Work, shall give the work the constant attention necessary to ensure the expeditious and orderly progress thereof, and shall cooperate with the City, its officers, agents or employees in every possible way.

At all times, the Contractor shall have as his agent on the Work a competent superintendent capable of reading and thoroughly understanding the Drawings and Specifications, with full authority to execute the directions of the Engineer without delay and to supply promptly such labor, services, materials, equipment, plant, apparatus, appliances, tools, supplies and other items as may be required. Such superintendent shall not be removed from the Work without the prior written consent of the City. If, in the opinion of the City, the superintendent or any successor proves incompetent, the Contractor shall replace him with another person approved by the City; such approval, however, shall in no way relieve or diminish the Contractor's responsibility for supervision of the Work.

Whenever the Contractor or his agent or superintendent is not present on any part of the Work where it may be necessary to give directions or instructions with respect to such work, such directions or instructions may be given by the City to and shall be received and obeyed by the foreman or any other person in charge of the particular work involved.

7. Insurance: The Contractor shall procure and maintain insurance of the types specified below, and to the limits for this insurance specified in the Standard Bid and Contract Terms and Conditions and the City of New London Code of Ordinances, Article IV., Section 2-71. All insurance shall be obtained from companies satisfactory to the City.

Insurance shall be in such forms as will protect the Contractor from all claims and liability for damages for bodily and personal injury, including accidental death, and for property damage, which may arise from operations under the Contract, whether such operations be by himself, his subcontractors, or by anyone directly or indirectly employed or engaged by him.

The following types of insurance shall be provided before starting and until final completion and acceptance of the Work and expiration of the guarantee period provided for in the Agreement.

a. Workmen’s Compensation and Employer’s Liability Insurance.

b. Bodily Injury Insurance for operations and completed operations and Contractor’s Protective Bodily Injury Insurance.

c. Property Damage Insurance for operations and completed operations and Contractor’s Protective Property Damage Insurance, each including coverage for injury to or destruction of wires or pipes and similar property and appurtenant apparatus and the collapse of or structural injury to any building or structure except those on which work under the Contract is being done. Blasting and explosion coverage shall be obtained if there is a need for blasting under the Contract, and no blasting shall be performed until such insurance has been secured.

d. Bodily Injury Insurance covering the operation of all motor vehicles owned by the Contractor.

e. Personal Injury Insurance to cover claims for personal injury and including claims brought by employees.

f. Property Damage Insurance covering the operation of all motor vehicles owned by the Contractor.

g. Insurance to cover bodily injuries and property damage resulting from the use of motor vehicles not owned by the Contractor, while such vehicles are being operated in connection with the prosecution of the Work.

h. Contractual Liability Insurance covering the liability assumed by the Contractor under the fifth paragraph of that subsection titled “Obligations and Liability of Contractor” of this Agreement.

i. Owner’s Protective Liability and Property Damage Insurance to protect the City and any Engineer against claims for Property damage and for bodily injuries, including accidental death, caused by the operations of the Contractor or his subcontractors on the Work. The policy shall indicate the City and any Engineer as the named insured. A copy of the policy shall be furnished to the City and a Certificate of Insurance shall be furnished to any Engineer.

Any of the above coverages written on a claims made form have an Extended Reporting Period of two years from the termination of the contract. If the policy is replaced and/or the retroactive date is changed, then the expiring policy must be endorsed to extend the reporting period for claims for the policy in effect during the contract for two (2) years from the completion date.

All policies shall be so written that the owner will be notified in writing of cancellation or restrictive amendment at least 30 days prior to the effective date of such cancellation or amendment.

Certificates from the Contractor’s insurance carriers stating the coverages provided, the limits of liability, and expiration dates shall be filed in triplicate with the Engineer before operations are begun. Such certificates shall be on the form furnished by the Engineer.

The CITY requires that the aggregate limits be maintained by the CONTRACTOR as required. It is the responsibility of the CONTRACTOR or his representative to notify the CITY if ever or whenever claims reduce the General Aggregate below $1,000,000.

Renewal certificates must be furnished by the Contractor prior to the expiration date of any of the initial insurances.

No insurance required or furnished hereunder shall in any way relieve the Contractor of or diminish any of his responsibilities, obligations and liabilities under the Contract.

Contractor shall agree to maintain in force during the contract the following minimum coverages and shall name the City of New London as an Additional Insured on a primary and non-contributory basis to all policies, except Workers Compensation. All policies should also include a Waiver of Subrogation.

Insurance shall be written with Carriers approved in the State of Connecticut and with a minimum AM Best’s Rating of “A-“ VIII. In addition, all Carriers are subject to approval by City of New London.

8. Contract: This Agreement, which includes all the Contract Document elements listed in paragraph 1 above, forms the Contract between the parties identified in the heading of this document. In the event that any provision of the Contract conflicts with any other provision of this Contract, the decision of the City will be final.

9. Funding and Fiscal Year Appropriations: Appropriations for expenditures by the City and authorization to spend for a particular purpose are ordinarily made on a fiscal year basis. The fiscal year of the City is the twelve (12) month period ending June 30 of each year. The obligations of the City under this Contract for the present or any subsequent fiscal year following the fiscal year in which this Contract is executed are subject to the appropriation of funds sufficient to discharge the City’s obligation, which accrues in this or any subsequent fiscal year. In the absence of such appropriation or authorization, this Contract shall be terminated immediately upon the Contractor’s receipt of notice to said effect without liability for damages, penalties or other charges arising from early termination. Expenditures for Contracted services that will extend beyond a single fiscal year shall not exceed in any fiscal year the amount appropriated and authorized for said fiscal year. The Contractor’s yearly costs, as contained herein, may not exceed the amount appropriated for said year.

10. Termination: The Contract may be terminated without cause by either party by giving written notice to the other at least thirty (30) calendar days prior to the effective date of termination stated in the notice. If Contractor fails to fulfill his obligations, the City may terminate this Contract by giving written notice to the Contractor at least seven (7) calendar days before the effective date of termination stated in the notice. The notice shall state the circumstances of the alleged breach and may state a period during which the alleged breach may be cured, which cure shall be subject to approval by the City.

11. Obligations in Event of Termination:

A. Upon termination, all finished or unfinished documents, data, studies, and reports prepared by the Contractor pursuant to this Contract, shall become the property of the City.

B. The City shall promptly pay the Contractor for all services performed to the effective date of termination, subject to indemnification provisions of Paragraph 5 hereof and subject to offset of sums due the Contractor against sums owed by the Contractor to the City.

12. Record keeping, Audit, and Inspection of Records: The Contractor shall maintain books, records and other compilations of data pertaining to the requirements of the Contract to the extent and in such detail as shall properly substantiate claims for payment under the Contract. All such records shall be kept for a period of six (6) years or for such longer period as is specified herein. All retention periods start on the first day after final payment under this Contract. If any litigation, claim, negotiation, audit or other action involving the records is commenced prior to the expiration of the applicable retention period, all records shall be retained until completion of the action and resolution of all issues resulting therefrom, or until the end of the applicable retention period, whichever is later. The Federal grantor agency, the State Auditor, the City, or any of their duly authorized representatives or designees shall have the right at reasonable times and upon reasonable notice, to examine and copy, at reasonable expense, the books, records, and other compilations of data of the Contractor which pertain to the provisions and requirements of this Contract. Such access shall include on-site audits, review, and copying of records.

13. Publicity, Publication, Reproduction and Use of Contract Products or Materials: Unless provided otherwise by law or the City, title and possession of all data, reports, programs, software, equipment, furnishings, and any other documentation or product paid for with City funds shall vest with the City at the termination of the Contract. The Contractor shall at all times obtain the prior written approval of the City before it, any of its officers, agents, employees or subcontractors, either during or after termination of the Contract, makes any statement bearing on the work performed or data collected under this Contract to the press or issues any material for publication through any medium of communication. If the Contractor, or any of its subcontractors, publishes a work dealing with any aspect of performance under the Contract, or of the results and accomplishments attained in such performance, the City shall have a royalty-free non-exclusive and irrevocable license to reproduce, publish or otherwise use and to authorize others to use the publication. The Contractor shall use reasonable means to inform the public that the City provides financial support for its operations and services by explicitly stating on publicity material, stationery, posters and other written materials, and on its premises the following: "This program is supported in part (in full) by the City of New London."

14. Assignment by Contractor and Subcontracting: The Contractor shall not assign or in any way transfer any interest in this Contract without the prior written consent of the City, nor shall he subcontract any services without the prior written approval of the City.

15. Connecticut Law: It is agreed that this contract shall be governed by, construed, and enforced in accordance with the internal laws of the State of Connecticut.

16. Venue: In the event of litigation, the parties do agree to be contractually bound to submit themselves to the personal jurisdiction of the state courts of Connecticut. The venue for any court proceeding shall be in the Superior Court for the Judicial District for New London at New London, Connecticut.

17. Waiver of Jury Trial: CONTRACTOR HEREBY EXPRESSLY WAIVES ANY AND ALL RIGHTS IT MAY HAVE TO TRIAL BY JURY OF ANY CLAIM, DEMAND, ACTION OR CAUSE OF ACTION (1) ARISING UNDER THIS AGREEMENT OR ANY OTHER INSTRUMENT, DOCUMENT OR AGREEMENT EXECUTED OR DELIVERED IN CONNECTION HEREWITH, OR (2) IN ANY WAY CONNECTED WITH OR RELATED OR INCIDENTAL TO THE DEALINGS OF THE PARTIES HERETO OR ANY OF THEM WITH RESPECT TO THIS AGREEMENT OR ANY OTHER INSTRUMENT, DOCUMENT OR AGREEMENT EXECUTED OR DELIVERED IN CONNECTION HEREWITH, OR THE TRANSACTIONS RELATED HERETO OR THERETO, IN EACH CASE WHETHER NOW EXISTING OR HEREAFTER ARISING, AND WHETHER SOUNDING IN CONTRACT OR TORT OR OTHERWISE; AND CONTRACTOR HEREBY AGREES AND CONSENTS THAT ANY SUCH CLAIM, DEMAND, ACTION OR CAUSE OF ACTION SHALL BE DECIDED BY COURT TRIAL WITHOUT A JURY, AND THE CITY MAY FILE AN ORIGINAL COUNTERPART OR A COPY OF THIS SECTION WITH ANY COURT AS WRITTEN EVIDENCE OF CONTRACTOR'S CONSENT TO THE WAIVER OF ITS RIGHT TO TRIAL BY JURY.

18. Nondiscrimination and affirmative action provisions, nondiscrimination provisions regarding sexual orientation, Executive Order Number Three and guidelines and rules, Executive Order Number Seventeen, Executive Order Number Sixteen and sexual harassment policy:

For the purposes of this article, the word “contractor” is substituted for and has the same meaning and effect as if it read “Contractor’s name.” Section A of this article is inserted in connection with subsection (a) of Section 4a-60 of the General Statutes of Connecticut, as revised. Section B of this article is inserted in connection with subsection (a) of Section 4a-60a of the General Statutes of Connecticut, as revised.

A. (a) For the purposes of this section, “minority business enterprise” means any small contractor or supplier of materials fifty-one percent or more of the capital stock, if any, or assets of which is owned by a person or persons: (1) who are active in the daily affairs of the enterprise, (2) who have the power to direct the management and policies of the enterprise, and (3) who are members of a minority, as such term is defined in subsection (a) of Conn. Gen. Stat. 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.

For the purposes of this section, “Commission” means the Commission on Human Rights and Opportunities.

For the purposes of this section, “public works contract” means any agreement between any individual, firm, or corporation and the State or any political subdivision of the State other than a municipality for construction, rehabilitation, conversion, extension, demolition or repair of a public building, highway or other changes or improvements in real property, or which is financed in whole or in part by the State, including, but not limited to, matching expenditures, grants, loans, insurance, or guarantees.

(b) (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, mental retardation, 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 their race, color, religious creed, age, marital status, national origin, ancestry, sex, mental retardation, 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 Conn. Gen. Stat. Sections 46a-68e and 46a-68f and with each regulation or relevant order issued by said commission pursuant to Conn. Gen. Stat. Sections 46a-56, 46a-68e, and 46a-68f; (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 they relate to the provisions of this section and Conn. Gen. Stat. Section 46a-56. If the contract is a public works contract, the contractor agrees and warrants that he will make good faith efforts to employ minority business enterprises as subcontractors and suppliers of materials on such public works project.

(c) Determination of the contractor’s good faith efforts shall include, but shall not be limited 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 may prescribe that are designed to ensure the participation of minority business enterprises in public works projects.

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

(e) The contractor shall include the provisions of subsection (b) of this section in every subcontract or purchase order entered into in order to fulfill any obligation of a contract with the State and such provisions shall be binding on a subcontractor, vendor, or manufacturer unless exempted by regulations or orders of the Commission. 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 Conn. Gen. Stat. 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, 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.

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

B. (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 sexual orientation, in any manner prohibited by the laws of the United States or of the State of Connecticut, and that employees are treated when employed without regard to their sexual orientation; (2) 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 on Human Rights and Opportunities 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; (3) the contractor agrees to comply with each provision of this section and with each regulation or relevant order issued by said commission pursuant to Section 46a-56 of the Connecticut General Statutes; (4) 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 that relate to the provisions of this section and Section 46a-56 of the Connecticut General Statutes.

(b) The contractor shall include the provisions of subsection (a) of this section in every subcontract or purchase order entered into in order to fulfill any obligation of a contract with the State and such provisions shall be binding on a subcontractor, vendor, or manufacturer unless exempted by regulations or orders of the Commission. 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 of the Connecticut General Statutes; 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, 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.

(c) The contractor agrees to comply with the regulations referred to in this section as they exist on the date of this contract and as they may be adopted or amended from time to time during the term of this contract and any amendments thereto.

C. This contract is subject to the provisions of Executive Order No. Three of Governor Thomas J. Meskill promulgated June 16, 1971, and, as such, this contract may be cancelled, terminated, or suspended by the State Labor Commissioner for violation of or noncompliance with said Executive Order No. Three, or any State or federal law concerning nondiscrimination, notwithstanding that the State Labor Commissioner is not a party to this contract. The parties to this contract, as part of the consideration hereof, agree that said Executive Order No. Three is incorporated herein by reference and made a part hereof. The parties agree to abide by said Executive Order and agree that the State Labor Commissioner shall have continuing jurisdiction in respect to contract performance in regard to nondiscrimination, until the contract is completed or terminated prior to completion.

The contractor agrees, as part consideration hereof, that this contract is subject to the Guidelines and Rules issued by the State Labor Commissioner to implement Executive Order No. Three, and that he will not discriminate in his employment practices or policies, will file all reports as required, and will fully cooperate with the State of Connecticut and the State Labor Commissioner.

D. This contract is subject to the provisions of Executive Order No. Seventeen of Governor Thomas J. Meskill promulgated February 15, 1973, and, as such, this contract may be cancelled, terminated, or suspended by the contracting agency or the State Labor Commissioner for violation of or noncompliance with said Executive Order No. Seventeen, notwithstanding that the State Labor Commissioner may not be a party to this contract. The parties to this contract, as part of the consideration hereof, agree that Executive Order No. Seventeen is incorporated herein by reference and made a part hereof. The parties agree to abide by said Executive Order and agree that the contracting agency and the State Labor Commissioner shall have joint and several continuing jurisdiction in respect to contract performance in regard to listing all employment openings with the Connecticut State Employment Service.

E. This contract is subject to the provisions of Executive Order No. Sixteen of Governor John G. Rowland promulgated August 4, 1999, and, as such, the contract may be canceled, terminated, or suspended by the State for violation of or noncompliance with said Executive Order No. Sixteen. Executive Order No. Sixteen is attached hereto and made a part hereof. The parties agree to comply with such executive order. In addition, the contractor agrees to include a copy of

Executive Order No. Sixteen, and the requirement to comply with said executive order, in all contracts with its contractors, subcontractors, consultants, sub-consultants, and vendors.

F. This contract is subject to the provisions of the City of New London Sexual Harassment Policy ("Policy") and, as such, the contract may be canceled, terminated, or suspended by the City in the event that the contractor, its employees, contractors, subcontractors, consultants, sub-consultants, or vendors engages in behavior prohibited by the provisions of the Policy (a copy of the Policy is attached hereto). The contractor agrees to include a copy of the Policy, and the requirement to prevent behavior as defined in such Policy, in all contracts with its contractors, subcontractors, consultants, sub-consultants, and vendors.

19. Force Majeure: Neither party shall be liable to the other or be deemed to be in breach of this Contract for any failure or delay in rendering performance arising out of causes beyond its reasonable control and without its fault or negligence. Such causes may include, but are not limited to, acts of God or of a public enemy, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, or unusually severe weather. Dates or times of performance shall be extended to the extent of delays excused by this section, provided that the party whose performance is affected notifies the other promptly of the existence and nature of such delay.

20. Compliance with Laws and Indemnification of the City of New London: The Contractor shall comply with all applicable laws, rules, regulations, ordinances, orders or requirements of the State of Connecticut and any governmental authority relating to the delivery of the services specified in this Contract. The City may require the Contractor to pay fines, penalties, and damages that may arise out of or may be imposed because of, the
Contractor's breach or failure to comply with the provisions of this Contract. Unless otherwise provided by law the Contractor shall indemnify and hold harmless the City, its agents, officers and employees against any and all liability, loss, damages, penalties, costs or expenses for personal injury or damage to real or tangible personal property which the City may sustain, incur or be required to pay resulting from, arising out of, or in connection with the services performed or delivered under this Contract by reason of acts, inactions, omissions, negligence, reckless or intentional misconduct of the Contractor, its agent(s), officers, employees or subcontractors; provided that the Contractor is notified of any claim within a reasonable time after the City becomes aware of it, and the Contractor is afforded an opportunity to participate in the defense of such claim. In such event, no negotiated settlement agreement shall be binding on the Contractor without the Contractor's concurrence.

21. Waivers And Severability: All conditions, covenants, duties and obligations contained in this Contract can be waived only by written agreement. Forbearance or indulgence in any form or manner by a party shall not be construed as a waiver, nor in any way limit the legal or equitable remedies available to that party. A waiver or breach of any term, condition, or covenant by a party shall not constitute a waiver or breach of any other term, condition or covenant. If any court of competent jurisdiction declares a provision of this Agreement invalid, illegal, or otherwise unenforceable, the remaining provisions of the Agreement shall remain in full force and effect.

22. Amendments: No amendment to this Contract shall be effective unless it is signed by authorized representatives of both parties and complies with all other regulations and requirements of law.

23. Entire Agreement: The parties understand and agree that this Contract and attachments (if any), which includes all Contract Documents, supersede all other verbal and written agreements and negotiations by the parties relating to the services under this Contract.

24. Notice: Unless otherwise specified in an attachment hereto, any notice hereunder shall be in writing addressed to the persons and addresses indicated in the caption of this Contract on page 1.

IN WITNESS WHEREOF, the parties hereto have caused this AGREEMENT to be executed in two (2) original copies on the day and year first above written.

OWNER:	CONTRACTOR:
_____	_____
Michael Passero Its Mayor	Its Duly Authorized Agent

Approved as to form:

_____
Jeffrey T. Londregan, Esq., Director of Law

Date Signed _____

REQUEST FOR PROPOSALS

ENVIRONMENTAL SERVICES

INVITATION TO SUBMIT

Pursuant to the terms and conditions of this Request for Proposals (RFP), the City of New London is pleased to solicit proposals for environmental services to oversee the cleanup of soil contamination at the vacant lot at 43 Hempstead St., New London, CT 06320.

There will be two options for a mandatory pre-bid walk through/ site inspection on **Thursday, April 27, 2023 at 2:30pm and on Friday, April 28, 2023 at 9:30am.**

Please direct any and all questions concerning this RFP to Tom Bombria; Community & Economic Development Project Coordinator via email at: tbombria@newlondonct.org **no later than Monday, May 15, 2023 at 4pm.** You must also copy Joshua Montague; Accounting/Purchasing Agent on all inquiries at jmontague@newlondonct.org

Proposals shall be submitted in sealed envelopes and should be addressed and **delivered no later than Friday, May 19, 2023 at 2:00PM** to:

Joshua Montague, Accounting/Purchasing Agent

13 Masonic Street

New London, CT 06320

Late proposals will not be accepted and will be returned unopened.

PROJECT

The City of New London is soliciting bids from qualified/licensed environmental professionals for environmental services associated with the cleanup of a .6 acre vacant property at 43 Hempstead St., New London. The intent is to clean up and provide open green space and a neighborhood park. The proposal should include providing environmental services and oversight to address known and potentially unknown hazards identified in a 2021 EPA Targeted Brownfield Assessment. An updated Phase I environmental assessment shall be required. Additional data gaps may exist. As part of the scope of services outlined in this request, an LEP must review the information provided in the attached reports to address all known hazards, and identify/investigate any potential data gaps. The next step will be for the LEP to design the remedial action plan, provide written specifications for a RFP to solicit bids from qualified environmental contractors for the actual cleanup, and to support the review and recommendations for procurement of the lowest qualified bidder. The proposal should include providing oversite of the cleanup and requisite reporting to the EPA and CTDEEP. Further details are provided below in the section entitled, "Environmental Status/Reports".

The City of New London is requesting a fixed cost proposal for LEP services, excluding actual cleanup costs which will be determined through open competitive bidding for an environmental contractor. In order for LEP firm to complete RAP and RFP for cleanup services if any necessary additional site testing is required, it shall be addressed through change orders following firms included fee schedules.

REQUEST FOR PROPOSAL

Summary of bid scope:
1) Review 2021 targeted brownfield assessment
2) Update Phase I
3) Create Remedial Action Plan including remediation and limited site restoration design
4) Provide Technical specifications and drawings for bid documents
5) Project bidding assistance following city, state and federal procurement guidelines
6) Monitor and oversee cleanup remediation and site restoration.
7) Provide required permits, EPA and DEEP reporting.
8) Fee Schedule for additional work or unanticipated changes
9) Summary of firm experience, qualifications, similar work experience, and references

Please address any perceived deficiencies, discrepancies or contradictions in this scope and or attached reports as RFQ's before bid opening.

Any quantities or estimates should be used as reference and confirmed by bidder in the field.

PROPERTY DESCRIPTION

The Subject Property (hereinafter the "Site") is located at 43 Hempstead Street in New London, New London County, Connecticut and is identified by the City of New London as Tax Map F12 Block 168 Lot 10. According to the City of New London Assessor's records, the property is 0.60-acres and is currently owned by the City of New London's redevelopment agency and community partner Renaissance City Development Corporation. The site is zoned as R-3 (Multi-family Medium Density Residential Zone).

The Site is currently a vacant lot with no remaining buildings and minimal vegetation. Bordering the site to the northwest and northeast are residential properties. Hempstead Street borders the southwest edge of the property, and Home Street borders the southeast side. A stone retaining wall borders the site to the northeast, and lies beyond the property line of 43 Hempstead Street, on the property of 17 Home Street.

ENVIRONMENTAL STATUS/REPORTS

Under contract with the US EPA, **KGSNE completed** a comprehensive US EPA managed Targeted Brownfields Assessment in November of 2021, along with a summary Analysis of Brownfields

Cleanup Alternatives. Also included is CT DECD approval into the Abandoned Brownfield Cleanup Program. The chosen proposed cleanup activities to remediate the Site is outlined in the Alternative #3 of the ABCA, which is to complete partial excavation then to refill with clean soil to render any remaining potentially contaminated soil inaccessible or environmentally isolated.

Based on the finding of the previous investigation, there are currently **two underground storage tanks (USTs) that would have to be located and removed from the Site**. **Soil impacted from UST releases will also be removed from the Site.** In addition, the presence of SVOCs, pesticides and PCBs, and heavy metals in soils require remediation given that those exceed the Connecticut Remedial Standard Regulations (RSRs). The proposed redevelopment use of the Site as a park requires remediation to be performed according to Residential Criteria according to Connecticut RSRs. **Targeted soil excavation down to 4 feet of soil per CT's regulations, of approximately 1000 cubic yards of soil, targeting excavation in less than 50% of the 0.6-acre property,** to meet the definition of inaccessible soil and/or environmentally isolated soil according to the CT RSRs**. An approximate 1,500 tons of soil will be disposed to a permitted soil recycling facility or disposed at a permitted landfill is also included in the remedial activities**. Backfilling with clean soil including the placement of demarcation fabric, and placement and grading of >3-in topsoil are also included in the remedial activities. **An Environmental Land Use Restriction (ELUR) will be ordered according to State's regulations which prohibits soil disturbance.** Groundwater at the Site has not been impacted and therefore, groundwater remediation is not required. Site preparation including conducting additional pre-remedial testing, finalizing remedial action documents, and acquiring the necessary permitting are also required prior to the cleanup activities. Of Note: According to section 5.0 Conclusions, page 24 of TBA, "Further investigation of the suspect USTs would be necessary to evaluate their potential to release contaminants to subsurface soil and groundwater." And page 24, 25, "Further evaluation will be necessary to determine whether the groundwater impacts result from colloidal or dissolved phase transport."

There are no known ongoing or anticipated environmental enforcement actions on this site.

The site is not listed or proposed for listing on the National Priorities List; the site is not subject to unilateral administrative orders, court orders, administrative orders on consent, or judicial consent decrees issued to or entered into by parties under CERCLA; and the site is not subject to the jurisdiction, custody, or control of the U.S. government.

Electronic copies of the Environmental Reports are attached as Exhibit C.

OBJECTIVE

The City of New London recently received a grant from the US EPA to assist with the environmental abatement of hazards at the site. The intent is to clean up the site to provide an open green space park for the neighborhood and the community residents.

TARGETED BROWNFIELDS ASSESSMENT

43 HEMPSTEAD STREET
NEW LONDON, CONNECTICUT

Prepared For:
U.S. Environmental Protection Agency (EPA)
Region I
Land, Chemicals, and Redevelopment Division
5 Post Office Square, Suite 100
Boston, Massachusetts 02109-3912

EPA CONTRACT NO. EP-S1-17-01
TDD NO. BR-01-21-03-0001

Submitted By:
KGSNE JV, LLC
293 Boston Post Road, West, Suite 100
Marlborough, MA 01752

Submittal Date: November 15, 2021

EPA Region I
Reviewed and Approved:

Contracting Officer's Representative (COR) — Date

Region I START
Reviewed and Approved:

Alyssa Epstein
Project Scientist — November 15, 2021 Date

Jeffrey Brunelle, C.P.G.
Senior Project Manager — November 15, 2021 Date

1.0 INTRODUCTION 1
1.1 Site Location and Description 1
1.2 Site History 1
1.3 Previous Site Investigations 2

2.0 TBA SITE INVESTIGATION ACTIVITIES 4
2.1 Geophysical Survey 4
2.2 Subsurface Investigation and Soil Sampling 5
2.3 Monitoring Well Installation and Development 6
2.4 Groundwater Sampling 7

3.0 DATA USABILITY AND VALIDATION 8

4.0 INVESTIGATION RESULTS 12
4.1 Geophysical Investigation Results 12
4.2 Subsurface Investigation Results 12
4.2.1 Soil Analytical Results 13
4.2.1.1 Volatile Organic Compounds 14
4.2.1.2 Polynuclear Aromatic Hydrocarbons 14
4.2.1.4 Extractable Total Petroleum Hydrocarbons 15
4.2.1.4 Pesticides 16
4.2.1.4 PCBs 17
4.2.1.4 RCP-15 Metals 18
4.2.2 Groundwater Analytical Results 21
4.2.2.1 Volatile Organic Compounds 21
4.2.2.2 Polynuclear Aromatic Hydrocarbons 22
4.2.2.3 Extractable Total Petroleum Hydrocarbons 23
4.2.2.4 Pesticides 23
4.2.2.5 Polychlorinated Biphenyls 23
4.2.2.6 Total RCP-15 Metals 23

5.0 CONCLUSIONS 24

6.0 REMEDIAL RECOMMENDATIONS AND COST ESTIMATE 25
6.1 Remedial Objectives and Goals 26
6.2 TBA Remedial Alternatives and Analysis 26
6.2.1 Source Areas 26
6.2.1.1 Technology Screening and Development of Alternatives 27
6.2.1.2 Detailed Analysis of Alternatives 29
6.2.2 Groundwater Impacts 31
6.3 EPA Green Remediation 31

REFERENCES 33

TABLES

NUMBER

4-1 TBA Soil Sample Analytical Results
4-2 TBA Groundwater Sample Analytical Results
6-1 Evaluation of Remedial Objectives, General Response Actions, Technology Types, and Process Options for Soil Contamination
6-2 Remedial Technology Screening - Source Areas
6-3 Detailed Analysis of Alternatives for Source Areas

FIGURES

NUMBER

1-1 Site Locus
2-1 Site Plan
2-2 Overburden Groundwater Contours

APPENDICIES

NUMBER

A NOVA Geophysics Survey Report
B Soil Boring and Well Construction Logs
C Laboratory Data Reports
D Low-flow/Low-Stress Groundwater Sampling Logs
E Data Validation Memorandum
F Remedial Alternative Cost Estimates

1.0 INTRODUCTION

This Targeted Brownfields Assessment (TBA) Report was prepared by KGSNE JV, LLC (KGSNE) for the United States Environmental Protection Agency (EPA) under Contract No. EP-S1-17-01, Task Order No. 68HE0119F0009, Technical Direction Document No. BR-01-21-03-0001 This report includes a summary of the data collection activities as well as an analysis of the results for the project, located at 43 Hempstead Street in New London, Connecticut. A Site Locus Map is included as Figure 1-1.

1.1 Site Location and Description

The Subject Property is located at 43 Hempstead Street in New London, New London County, Connecticut and is identified by the City of New London as Tax Map F12 Block 168 Lot 10. According to the City Assessor's records, the property is 0.60-acres and is currently owned by the City. The site is zoned as R-3 (Multi-family Medium Density Residential Zone).

The property is currently vacant. The lot consists mainly of grassy areas with debris located in the northern corner. KGSNE observed remnants of building foundations. Gravel, brick, and cement fragments are comingled with topsoil in the northeast portion of the Site. A fence is located on the southern, western, and a portion of the eastern boundaries and a stone retaining/old building wall is along the northern Site boundary. Site topography slopes to the south/southeast. Generally, the surrounding area is residential.

1.2 Site History

The Site was first developed prior to 1884 and was used for canning and preserving by 1884. The factory buildings on-site were vacant between 1891 and 1907. In 1907 the property was used as contractor's stables and yards. Between 1912 and 1951 the Site was occupied by multiple silk companies with dye rooms located on the northern portion of the Site. Between 1951 and 1967 a dry cleaner and laundry occupied the Site. Between 1967 until at least 1972 the Site was occupied by Crescent Communication Corp electronic manufacturers. Based on aerial photographs the buildings on-site were demolished between 1996 and 2005 and the Subject Property has been a vacant lot since.

1.3 Previous Site Investigations

Delta Environmental Services, Inc. (Delta) completed a Site Inspection as described in their December 1997 Site Inspection Update report. The inspection was completed prior to building demolition and identified the buildings as unsecure and in poor condition. Delta observed paints, paint thinners, lacquer thinner, oil, isocyanates (for urethane foam manufacture), metal cleaning chemicals, and other chemicals stored inside the buildings.

During the inspection Delta observed a fill and vent pipe for an underground storage tank (UST) adjacent to the boiler room. According to Delta, the City Fire Marshall reported that an 8,000-gallon UST was installed in 1957. The Fire Marshall also identified records of a 5,000-gallon UST installed in 1939. The 8,000-gallon UST may have replaced the older 5,000-gallon tank; however, this is uncertain (Additionally, KGSNE observed a UST to the south of the office building on the western property boundary on the 1951 and 1954 Sanborn Maps reviewed for this report).

Delta advanced eight soil borings to a maximum depth of 8 feet below ground surface (bgs) during a Phase II ESA conducted on August 8, 2000. Soil samples were analyzed for volatile organic compounds (VOCs), total RCRA-8 metals, synthetic precipitate leachate procedure (SPLP) metals, and extractable total petroleum hydrocarbons (ETPH).

Laboratory analysis detected arsenic at 11 parts per million (ppm) in the sample collected at B-3 0-4 feet, above the Residential Direct Exposure Criteria (R-DEC) of 10 ppm. Other metals were not detected at concentrations above their respective R-DEC criteria. VOCs and ETPH were not detected in the soil samples analyzed. Analysis of SPLP metals did not identify levels requiring remediation under the Connecticut Remediation Standard Regulations (RSRs). Additionally, Delta concluded that the Site is not defined as an “Establishment” pursuant to Connecticut Public Act 97-218 the “Transfer Act”.

On May 9, 2001, Delta advanced five soil borings and installed three monitoring wells to a maximum depth of 12 feet bgs during a Supplemental Subsurface Investigation. Delta collected eleven soil samples for laboratory analysis of lead and arsenic. Lead was identified at concentrations ranging from 51 to 390 ppm, below the R-DEC of 500 ppm. Four samples identified arsenic concentrations above the DEC of 10 ppm. Five samples were additionally analyzed for SPLP arsenic. Results indicated arsenic detected in site soils is not likely to leach into

groundwater. On May 18, 2001, Delta collected groundwater samples for VOCs analysis from the three monitoring wells. VOCs were not detected in the three groundwater samples analyzed.

Delta's Draft Remedial Action Plan (RAP), dated January 25, 2002, presented arsenic as a contaminant of concern and identified three alternative methods to address contaminated soils to be implemented under Connecticut General Statues Section 22a-133y "voluntary Remediation Program" including: soil excavation and offsite disposal, installation of an in-situ soil treatment system, or capping the soil with a clean material.

Delta recommended addressing arsenic in soil by capping the contaminated material with clean fill to render contaminates soil inaccessible because "the RSRs do not require remediation of "inaccessible soil". Inaccessible soil is defined in Section 22a-133k-1 as contaminated soil (1) more than four feet below the ground surface; (2) more than two feet below a paved surface comprised of a minimum of three inches of bituminous concrete or concrete which two feet may include the depth of any material used as sub-base for the pavement; or (3) (A) beneath an existing building or (B) beneath another existing permanent structure provided written notice that such structure will be used to prevent human contact with such soil has been provided to the Commissioner" (Delta, 2002).

Although Delta provided recommendations for remediation, KGSNE did not identify any evidence that any remedial actions were completed.

KGSNE completed an ASTM Phase I Environmental Site Assessment in August 2021.The following Recognized Environmental Conditions (RECs)/Areas of Concern (AOCs) were identified:

- REC/AOC-1: Industrial Historical Site Use
    - Historical operations included clothing manufacturing with dye rooms, a dry cleaner, and electronics manufacturing. Delta identified chemical storage in buildings in 1997. These manufacturing processes use chemicals and have the potential to release VOCs (including chlorinated solvents) and heavy metals soil and groundwater. Prior investigations summarized above were insufficient to characterize the Site. Prior investigations have identified arsenic as a contaminant of concern in on-site soil.

- REC-2: CT SPILLS Database
    - The Site is included in the CT SPILLS database due to a release of chemicals and petroleum reported on December 24, 1997. 100 gallons of mixed waste was released in an abandoned building on the property. No investigation or remediation was identified related to this spill.
- REC-3: Underground Storage Tanks
    - In the 1997 Site Inspection Update, Delta observed fill and vent pipes for a UST located adjacent to the boiler room. The City Fire Marshall reported that an 8,000-gallon UST was installed in 1957 and a 5,000-gallon UST was installed in 1939. Additionally, a UST was identified on the southwestern portion of the property in the 1951 and 1954 Sanborn Maps. On-site tree-planting efforts by neighbors identified anomalies in the areas where USTs were historically identified.
- REC-4: Former Coal Use/Storage
    - The 1884 through 1954 Sanborn Maps identify coal as the complex's fuel source. Use of coal and the potential presence of related coal ash represents a REC due to the possible presence of metals and PAHs associated with coal ash.

2.0 TBA SITE INVESTIGATION ACTIVITIES

KGNSE conducted the TBA investigation in accordance with the approved Field Task Work Plan/Quality Assurance Project Plan Addendum (FTWP/QAPPA) dated July 12, 2021 (RFA# 17078), as prepared by KGSNE.

The objective of this TBA was to assess the RECs/AOCs identified in the Phase I in preparation for the intended reuse of the Site as a public park in an underserved Economic Justice community. KGSNE performed a geophysical survey, advanced soil borings and installed monitoring wells, and collected soil and groundwater samples for laboratory analysis as described below.

2.1 Geophysical Survey

On May 6, 2021, Nova Geophysical Services (Nova) of Douglaston, New York performed a Geophysical Engineering Survey (GES) with oversight from a Nobis Environmental Scientist. Nova performed electromagnetic (EM) and ground penetrating radar (GPR), surveys to locate subsurface anomalies that may be indicative of USTs, buried utilities and containers, and other

below grade structures, as well as to ensure proposed soil boring locations were clear of underground utilities prior to soil boring advancement.

Nova used the following instruments for the geophysical survey:

- GPR data was collected using a Sensors and Software Noggin 250 MHz with shielded antenna
- EM data was collected using a Radiodetection RD7100 locator.

Nova analyzed EM and GPR data in real time for reflections/detections that indicate major anomalies and substructures, marked subsurface anomalies in the field with paint, and recorded subsurface features on a site plan for subsequent report preparation.

Subsurface anomalies and site structures detected during the geophysical survey are depicted in Nova's Geophysical Engineering Survey Report (included as Appendix A).

2.2 Subsurface Investigation and Soil Sampling

Drilex Environmental of Auburn, Massachusetts advanced 10 soil borings approximately 7 to 15 feet below grade. Soil boring locations are shown on Figure 2-1. Soil borings were advanced using a Geoprobe® 7822DT track-mounted drill rig. During drilling activities, soil samples were collected from each boring continuously using dedicated 5-foot macro-core acetate sampling sleeves. Soil borings B-2 and B-3 were advanced near existing monitoring wells to couple soil data with groundwater sampling locations. KGSNE installed MW-1R as a replacement well since MW-1 was dry during groundwater gauging. KGSNE advanced the remainder of the soil borings to investigate portions of the Site that were not previously investigated.

KGSNE visually classified soils in the field using the Modified Burmister Classification System and used a MiniRAE 3000 photoionization detector (PID) to field screen soil samples for the presence of VOCs. Boring logs that include descriptions of subsurface soils and other pertinent subsurface observations are included in Appendix B.

KGSNE collected one soil sample from each boring location from the 0–2-foot bgs interval to evaluate near-surface soil for direct-contact exposure potential. Additionally, KGSNE collected an additional soil sample from the deeper vadose zone based on visual/olfactory evidence, or PID headspace evidence suggesting possible contamination. If no such evidence was identified, then

KGSNE collected the second soil sample from the approximate groundwater surface. Soil samples were submitted for laboratory analysis of the following: VOCs, ETPH, PAHs, pesticides, PCBs, and RCP-15 Metals. Based on initial results, select samples were submitted for analysis of SPLP ETPH, SPLP PAHs, and SPLP metals. Samples were collected in laboratory-supplied sample bottles, placed on ice in a cooler, logged on a chain-of-custody form, and delivered to the laboratory under chain-of-custody protocol by a courier provided by the laboratory.

A summary of soil analytical data collected from soil borings advanced during the TBA is presented on Table 4-1 and the complete laboratory analytical reports are included in Appendix C. Analytical results are presented in Section 4.0 below.

2.3 Monitoring Well Installation and Development

Monitoring wells MW-1, MW-2, and MW-3 are existing wells previously installed by others. KGSNE installed monitoring wells MW-1R, MW-4, MW-5, and MW-6 during this TBA. Monitoring well locations are shown on Figure 2-1 and well construction details are included on the boring logs (Appendix B).

The monitoring wells were constructed using 2-inch diameter, Schedule 40 polyvinyl chloride (PVC) with 0.010-inch slotted screens of varied lengths. The borehole annulus surrounding each monitoring well was filled with clean filter sand to one foot above the top of the well screen, then approximately one foot of bentonite chips, then brought to grade with soil cutting backfill. Monitoring wells were completed with stick-up well casing.

KGSNE developed the newly installed groundwater monitoring wells using surge and purge techniques using a submersible down-hole pump. The pump was surged up and down the length of the well screen. Nobis then purged the wells by over-pumping to remove fine soil materials from the well casing and surrounding filter sand. All wells were developed until at least five well volumes of water were removed from the well or the well was purged dry.

Nobis surveyed new and existing monitoring wells for vertical elevation using a laser level. KGSNE established an arbitrary benchmark of 100’ at XXX to tie in relative elevations of groundwater measuring points. Prior to sample collection, KGSNE conducted a synoptic round of

groundwater gauging to establish the approximate groundwater flow direction. The following table summarizes the groundwater depth measurements:

Summary of Groundwater Gauging Results

Monitoring Well	Date	Depth to Water (feet below Measuring Point)	Measuring Point Elevation (feet)	Groundwater Elevation (feet)
MW-1	8/18/21	DRY	--	--
MW-1R	8/18/21	10.27	96.30	86.03
MW-2	8/18/21	9.75	95.85	86.10
MW-3	8/18/21	7.50	97.62	90.12
MW-4	8/18/21	8.65	99.40	90.75
MW-5	8/18/21	10.65	98.30	87.65
MW-6	8/18/21	11.80	98.76	86.96

Groundwater flow direction is estimated to be towards the southeast. A groundwater contour map is included as Figure 2-2.

2.4 Groundwater Sampling

KGSNE collected groundwater samples from the ten newly installed monitoring wells on August 18 and 19, 2021.

KGSNE employed the USEPA Region I Low Flow/Low Stress methods to collect groundwater samples from the newly installed monitoring wells. KGSNE installed dedicated polyethylene tubing with the intake located approximately two feet off the bottom of the well screen to collect groundwater samples from each well. KGSNE purged monitoring wells using a peristaltic pump and gauged well drawdown with an electronic water level probe. Purging rates were maintained at 200 milliliters per minute (ml/min) or less, and drawdown in the wells was limited to less than 0.03 feet at each sampling location.

Nobis used a YSI Pro DSS multi-parameter meter equipped with a flow-through cell and a Hach 2100Q turbidity meter to monitor purge water for stabilization of field indicator parameters while purging each well. Both the YSI and turbidity units were calibrated in accordance with manufacturer specifications prior to the start of groundwater sampling activities. Field parameters were monitored at 5-minute intervals until the following stabilization criteria were met for three consecutive readings:

- Temperature did not vary by more than 3 percent;
- Specific conductance did not vary by more than 3 percent;
- pH did not vary by more than 0.1;
- ORP did not vary by greater than 10 millivolts;
- Dissolved oxygen did not vary by more than 10 percent or greater than 0.5 mg/L; and
- Turbidity measured less than five nephelometric turbidity units (NTUs) or did not vary by more than 10 percent.

KGSNE recorded groundwater sampling data on dedicated groundwater sampling log sheets (included in Appendix D). KGSNE collected groundwater samples after field parameter stabilization conditions were met.

KGSNE filled laboratory-supplied sample bottles directly from the pump discharge line (groundwater monitoring equipment and associated tubing was disconnected to collect samples). Samples were placed on ice in a cooler, logged on a chain-of-custody form, and delivered to the laboratory under chain-of-custody protocol. Groundwater samples were submitted for laboratory analysis of the following: VOCs, ETPH, PAHs, pesticides, PCBs, and RCP Total Metals.

A summary of groundwater analytical data collected from monitoring wells is presented on Table 4-2 and laboratory analytical reports are included in Appendix C. Analytical results are presented in Section 4.0 below.

3.0 DATA USABILITY AND VALIDATION

KGSNE performed an EPA Region 1 Tier I Plus data validation on the analytical data. As prescribed in FTWP/QAPPA, the data validation memoranda are included as Appendix E of this report. The data review was in accordance with the *EPA New England Environmental Data Review Supplement for Regional Data Review Elements and Superfund Specific Guidance/Procedures* (September 2020); *USEPA National Functional Guidelines for Superfund Organic Methods Data Review* (January 2017); *USEPA National Functional Guidelines for Superfund Inorganic Methods Data Review* (January 2017); the Field Task Work Plan (FTWP) and Quality Assurance Project Plan Addendum (QAPPA) for the Targeted Brownfields Assessment (TBA) for the 43 Hempstead Street Site (July 2021).

Results of the soil and groundwater data validations are summarized below.

Soil

Soil samples were submitted to SGS North America, Inc. (SGS) in Dayton, NJ for the analyses specified above. SGS performed the requested analyses in conformance with the established planning documents. SGS's laboratory reports (Appendix C) include sample results, quality control evaluations, a case narrative, sample handling and custody documentation, and a Reasonable Confidence Protocol (RCP) Laboratory Analysis QA/QC Certification Form. The results of the data validation of the soil data are described below:

- Samples were received properly preserved and were analyzed within specified technical holding times.
- Laboratory quantitation limits (QLs) met the Project Action Limits (PALs) established for the site. A QL for thallium exceeded the PAL in one sample due to a required sample dilution.
- Field and laboratory blanks did not exhibit contamination.
- Field duplicate precision criteria were exceeded for several PAH compounds (acenaphthene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)-fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)-anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, naphthalene, and pyrene). Detected and non-detected results for these compounds were qualified as estimated in the soil samples due to field duplicate imprecision.
- Field duplicate precision criteria were exceeded for the pesticides 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT and for the metal zinc. Detected and non-detected results for these compounds/analytes were qualified as estimated in the soil samples due to field duplicate imprecision.
- Matrix spike and matrix spike duplicate (MS/MSD) analyses exhibited non-conformances including:
    - Low recoveries of several VOCs (bromobenzene, n-butylbenzene, carbon disulfide, chlorobenzene, 2-chlorotoluene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, trans-1,4-dichloro-2-butene, dichlorodifluoromethane, trans-1,2-dichloroetheene, trans-1,3-dichloropropene, ethylbenene, hexachlorobutadiene, 4-isopropyltoluene, naphthalene, styrene, tetrachloroethene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, and m,p-xylene). Sample results were all non-detect and were qualified as estimated due

to the low recoveries. The recoveries of n-propylbenzene and sec-butylbenzene were also recovered below established QC limits. Detected and non-detected results for these compounds were qualified as estimated in the soil samples.

  - Several PAH compound recoveries were non-compliant in the MS/MSD analyses (acenaphthylene, benzo(a)pyrene, benzo(g,h,i)perylene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, and naphthalene). In general, these compounds were recovered low in the MS analysis and high in the MSD analysis. Detected and non-detected results for these PAHs were qualified as estimated. Several of the PAH recoveries resulted in exceeded precision criteria between the results as well.
  - Antimony was recovered low in the MS/MSD analyses and copper was recovered high in the MSD analysis. Detected and non-detected results for antimony were qualified as estimated in the soil samples. The detected results for copper were qualified as estimated with a potential high bias in all soil samples.
  - Zinc was recovered low in the MS and high in the MSD. Detected zinc results were qualified as estimated with an indeterminant bias.
- Serial dilution results indicate a potential matrix interference for zinc.
- Dual column precision criteria were exceeded for 4,4'-DDE and 4,4'-DDD 4,4'-DDT, and/or hexachlorobenzenein select samples. Detected results for these compounds were qualified as estimated in associated soil samples.
- Surrogate recoveries for select samples in the PAH, pesticide, PCB, and ETPH analyses exceeded established QC limits, resulting in estimation of associated results in the samples.
- Laboratory accuracy and precision criteria were met for the VOC, PAH, pesticide, metals, and ETPH LCS/LCSD analyses. Spiked PCB recoveries were high in one of the LCS/LCSD analyses associated with the samples. PCBs were not detected in the associated samples and qualification of the data was not required.

<u>Groundwater</u>

Groundwater samples were submitted to SGS for the analyses specified above. SGS performed the requested analyses in conformance with the established planning documents. SGS's laboratory reports (Appendix C) included the sample results, quality control evaluations, a case narrative, sample handling and custody documentation, and an RCP Laboratory Analysis QA/QC Certification Form.

The results of the data validation of the groundwater data are described below:

- Samples were received properly preserved and were analyzed within specified technical holding times.
- Laboratory QLs met the PALs established for the site except for the VOC 1,2-dibromo-3-chloropropane and the pesticide chlordane. The QLs for these compounds may not meet project objectives.
- Laboratory blanks associated with sample results did not exhibit contamination.
- Field and laboratory duplicate results were within acceptable limits except for the field duplicate results for copper, lead, vanadium, and zinc, where the field duplicate criteria were exceeded. Detected and non-detected results for these analytes were qualified as estimated in the samples.
- MS/MSD results were acceptable. Exceedances for endrin, alachlor, endosulfan sulfate, and endrin ketone did not result in qualification of the data since the recoveries were high and the compounds were not detected in the samples.
- Surrogate recoveries were within established QC limits except for the CT ETPH analysis, where a surrogate recovery was below limits in one sample, resulting in the estimation of the non-detect result.
- LCS/LCSD accuracy and precision criteria were met for all analyses.
- Data qualifications were not required for the VOC, PAH, pesticide, and PCB analyses.

As previously described, select soil samples were selected for analysis of SPLP metals (RCP-15 metals), SPLP PAHs, and/or SPLP ETPH. Twelve soil samples were selected for SPLP analyses.

The results of the data validation for the SPLP analyses are described below:

- SGS performed the requested analyses in conformance with the established planning documents, however; specified technical holding times were exceeded for the SPLP PAH and SPLP ETPH analyses. Detected and non-detected results for these analyses were qualified as estimated (J-) and rejected (R), respectively, in all soil samples due to the exceeded holding times. As noted in the laboratory's sample log-in sheets, the laboratory was directed to proceed with the SPLP analyses beyond holding time.
- SGS's laboratory reports (Appendix C) included the sample results, quality control evaluations, a case narrative, sample handling and custody documentation, and an RCP Laboratory Analysis QA/QC Certification Form.
- The laboratory QLs for SPLP metals analysis met the PALs established for the site. There are no site-specific PALs established for the SPLP PAH or SPLP CT ETPH analyses.

- Surrogate recoveries were acceptable.
- Accuracy and precision criteria were met for all LCS/LCSD analyses.
- MS/MSD criteria were met except for select PAH compounds (benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene). Detected and non-detected results were qualified as estimated in the samples due to low leachate MS recoveries.

Based on the data validation of the soil, groundwater, and leachate data for the site, the data are considered usable for decision making with reasonable confidence, except for the non-detected SPLP PAH and SPLP ETPH results, which were rejected (R) due to exceeded SPLP technical holding times

4.0 INVESTIGATION RESULTS

4.1 Geophysical Investigation Results

Appendix A includes the geophysical investigation data report. The following summarizes the investigation's findings:

- Anomalies resembling former subsurface utilities related to demolished buildings.
- Large, conductive geophysical anomalies resembling a potential UST where USTs were historically located.
- Anomalies resembling foundation elements from previous buildings.
- An unknown anomaly resembling a flat-lying reflector.

The depths of these features below grade were not established by this investigation. Figure 2-1 presents the locations of these anomalies. Additional subsurface investigation is necessary to determine whether USTs or other similar infrastructure remains on-site.

4.2 Subsurface Investigation Results

KGSNE compared analytical results to the criteria established in the approved QAPPA to make a preliminary evaluation of potential risks associated with contamination and to determine the need for remedial actions or use limitations to facilitate reuse or redevelopment. For the purpose of this evaluation, KGSNE anticipates that the Site will be redeveloped as a park.

Nobis used the following RSR criteria to evaluate contaminants and identify remediation alternatives, delineate the extent of soil contamination, and evaluate potential vapor intrusion hazards and potential harmful discharges to surface water bodies near the Site:

- Soil: Connecticut RSR Residential Direct Exposure Criteria (R-DEC), Class GB Groundwater Classification Area- Pollutant Mobility Criteria (GB-PMC), or Additional Polluting Substances and/or Alternative Criteria (APS).
- Groundwater: Connecticut RSR Surface Water Protection Criteria (SWPC), Residential - Groundwater Volatilization Criteria (R-GWVC), and APS criteria.

In addition to the RSR criteria, CT DEEP developed APSs to establish voluntary remediation criteria for substances that were not included in the RSRs. In some circumstances, CT DEEP defaults to the APS to correct misprinted standards included in other RSR criteria. Nobis used APS criteria to establish evaluate the analytical data whenever CT DEEP used the APS to correct other RSR criteria.

In addition, the RSRs do not have SPLP criteria to compare SPLP PAH and ETPH results. SPLP analysis evaluates the potential for contaminants in soil to leach to water and presents data in water units (ug/L); therefore, KGSNE compared SPLP PAH and SPLP ETPH analytical results to the SWPC to determine if elevated contaminant concentrations detected by standard PAH and ETPH analysis may pose a leaching risk. Soil and groundwater analytical results are presented below.

4.2.1 Soil Analytical Results

KGSNE submitted 20 soil samples, two laboratory QC samples (one field duplicate sample and one trip blank) collected from 10 soil borings. Soil samples were submitted for laboratory analysis of the following: VOCs, ETPH, PAHs, pesticides, PCBs, and RCP-15 Metals. Based on initial results, select samples were submitted for analysis of SPLP ETPH, SPLP PAHs, and SPLP metals. The objective was to determine whether releases have occurred as a result of historical site operations, and to determine the extent to which contamination may exist in environmental media. Soil analytical results are presented in Table 4-1. Figure 2-1 depicts soil boring locations. Analytical laboratory reports are included as Appendix C. Specific analytical results are detailed below.

4.2.1.1 Volatile Organic Compounds

Acetone (likely a laboratory contaminant), 2-butanone, isopropylbenzene, n-propylbenzene, sec-butylbenzene, and tert-butylbenzene were detected in soil samples. None of the detections exceeded their respective R-DEC or GB-PMC standards. Based on this data, no soil remedial actions are necessary to address VOCs in soil.

4.2.1.2 Polynuclear Aromatic Hydrocarbons

PAHs were detected in 17 of the 20 soil samples. PAH concentrations exceed the R-DEC and GB-PMC standards in the following samples: B-3 (0-2'), B-3 (3-5'), B-8 Field Duplicate (0-2'), MW-4 (0-2'), MW-6 (3-5'), and MW-1R (0-2') samples. The following table summarizes the PAH results from accessible soil samples:

Chemical	Connecticut Direct Exposure Criteria Residential (mg/kg)	Connecticut GB PMC (mg/kg)	Detection Frequency	Max Detection (mg/kg)	Average Conc. (mg/kg)
2-Methylnaphthalene	270	5.6	13/20	0.585	0.0809
Acenaphthene	1,000	84	9/20	0.252	0.0469
Acenaphthylene	--	84	14/20	0.629	0.145
Anthracene	1,000	400	14/20	1.35	0.278
Benzo(a)anthracene	1	1	14/20	4.04	0.787
Benzo(a)pyrene	1	1	16/20	3.38	0.656
Benzo(b)fluoranthene	1	1	16/20	5.11	0.949
Benzo(g,h,i)perylene	8.4	1	15/20	2.09	0.45
Benzo(k)fluoranthene	8.4	1	14/20	1.64	0.339
Chrysene	84	1	16/20	4.21	0.777
Dibenz(a,h)anthracene	500	42	15/20	0.663	0.123
Fluoranthene	1,000	56	16/20	8.67	1.52
Fluorene	1,000	56	11/20	0.609	0.0996
Indeno(1,2,3-cd)pyrene	1	1	15/20	2.37	0.457
Naphthalene	1,000	56	15/20	1.49	0.143
Phenanthrene	1,000	40	16/20	6.3	1.26
Pyrene	1,000	40	16/20	7.78	1.44

Notes:
All concentrations are shown in milligrams per kilogram (mg/kg).
Shading indicates at least one sample result is above Connecticut criteria which includes the Connecticut Additional Polluting Substances recommended criteria.
The average concentrations are reported with half the reporting limit for non-detect results.

The following table provides a summary of the 95% Upper Confidence Limit (UCL) of the mean for those substances which exceeded the Connecticut criteria:

Chemical	Connecticut Direct Exposure Criteria Residential (mg/kg)	Connecticut GB-PMC (mg/kg)	95% UCL of the Mean (mg/kg)
Benzo(a)anthracene	1	1	1.604
Benzo(a)pyrene	1	1	1.301
Benzo(b)fluoranthene	1	1	1.881
Benzo(g,h,i)perylene	8.4	1	0.843
Chrysene	84	1	1.57
Indeno(1,2,3-cd)pyrene	1	1	0.89

Notes:
All concentrations are shown in milligrams per kilogram (mg/kg).
Shading indicates at least one sample result is above Connecticut criteria which includes the Connecticut Additional Polluting Substances recommended criteria.

The soil sample results present benzo(a)anthracene, benzo(a)pyrene and benzo(b)fluoranthene as PAH CoCs based on Residential DEC risk and a potential risk to groundwater based on the GB PMC. Additionally, chrysene presents a potential risk to groundwater based on the GB PMC. The 95% UCL of the mean for benzo(g,h,i)perylene and indeno(1,2,3-cd)pyrene are below the Residential DEC and/or the GB PCM, anre are not included as CoCs.

To further evaluation the potential risk to groundwater presented by the PAHs, KGSNE submitted five soil samples for SPLP PAH analysis. Concentrations reported from SPLP PAH analysis do not exceed the Surface Water Protection Criteria. Therefore, PAH impacts in soil are not expected to significantly impact GB-classified groundwater.

The 95% UCL for soil sample results indicate that benzo(a)anthracene, benzo(a)pyrene and benzo(b)fluoranthene contribute to excess potential risk based on the Residential DEC. Therefore, action should be taken to minimize the risk associated with this contamination.

4.2.1.3 Extractable Total Petroleum Hydrocarbons

Extractable total petroleum hydrocarbons were detected in 19 of the 20 soil samples. ETPH concentrations exceed the Residential DEC standard in the B-3 (0-2’) and MW-6 (3-5’) samples.

The following table provides a summary of the 95% UCL of the mean for ETPH:

Chemical	Connecticut Direct Exposure Criteria Residential (mg/kg)	Connecticut GB-PMC (mg/kg)	95% UCL of the Mean (mg/kg)
ETPH	500	2,500	642

Notes:
All concentrations are shown in milligrams per kilogram (mg/kg).
Shading indicates at least one sample result is above Connecticut criteria which includes the Connecticut Additional Polluting Substances recommended criteria.

Based on total ETPH analytical results, KGSNE submitted six soil samples for SPLP ETPH analysis to evaluate the ETPH in soil contamination leachability potential. Concentrations reported from SPLP ETPH analysis do not exceed the APS Recommended Surface Water Protection Criteria. Therefore, ETPH does not appear to contribute significantly to potential groundwater contamination.

The 95% UCL for soil sample results indicate that ETPH contributes to excess potential risk based on the Residential DEC. The two soil samples exhibiting the criteria exceedances were located nearby to potential UST locations identified during the geophysical investigation. The ETPH soil contamination is coincident with the PAH soil impacts. Therefore, action should be taken to minimize the risk associated with this contamination.

4.2.1.4 Pesticides

Organochlorine pesticides including 4,4'DDD, 4,4'DDE, and 4,4'DDT were detected in 8 of the 20 soil samples. The following table summarizes the pesticide results from accessible soil samples:

Chemical	Connecticut Direct Exposure Criteria Residential (mg/kg)[1]	Connecticut GB PMC (mg/kg)[1]	Detection Frequency	Max Detection (mg/kg)	Average Conc. (mg/kg)
4,4'-DDD	1.8	0.02	5/20	0.0751	0.00561
4,4'-DDE	1.8	0.02	3/20	0.0356	0.00258
4,4'-DDT	1.8	0.02	5/20	0.208	0.0128

Notes:
1 – The criteria listed for DDD/DDE/DDT is the CT DEEP recommended criteria for additional polluting substances and certain alternative criteria. It is not a promulgated standard.
All concentrations are shown in milligrams per kilogram (mg/kg).

Shading indicates at least one sample result is above Connecticut APS criteria.
The average concentrations are reported with half the reporting limit for non-detect results.

As indicated by the above table, none of the pesticide concentrations exceeds the Residential DEC; however, some of the detections do exceed the recommended APS for GB-PMC. The following table provides a summary of the 95% UCL of the mean for 4,4'-DDT:

Chemical	Connecticut Direct Exposure Criteria Residential (mg/kg) [1]	Connecticut GB-PMC (mg/kg) [1]	95% UCL of the Mean (mg/kg)
4,4'-DDD	1.8	0.02	0.0222
4,4'-DDE	1.8	0.02	0.0067
4,4'-DDT	1.8	0.02	0.0339

Notes:
1 – The criteria listed for DDD/DDE/DDT is the CT DEEP recommended criteria for additional polluting substances and certain alternative criteria. It is not a promulgated standard.
Shading indicates at least one sample result is above Connecticut APS criteria
All concentrations are shown in milligrams per kilogram (mg/kg).

The 95% UCL of the mean for the 4,4'-DDD, and 4,4'-DDT data slightly exceed the APS for GB-PMC. No site history information has been located that indicates that pesticides were used; however, as a dry-cleaning operation, prevention of pests (e.g., moths) was likely desirable, and therefore, pesticide usage was possible. Pursuant to the RSR Section 22a-133k-2 (c)(5)(E) – Conditional Exception for Soil Polluted with Pesticides, based on site history KGSNE infers that the release is related to application rather than as a waste or as a result of other non-authorized release. The 95% UCL of the mean for each of the detected pesticides is orders of magnitude lower than the APS Residential DEC, and as indicated in a subsequent section of this report, none of these pesticides was detected in groundwater samples. Therefore, KGSNE recommends that no further action be taken to address the pesticide contamination in soil.

4.2.1.5 PCBs

The PCB mixture Aroclor-1254 was the only PCB mixture detected in soil samples. The PCB was detected in in 4 of the 20 samples and exceeded the Residential DEC in one sample (B-10) collected from 0-2' below grade.

The following table summarizes the PCB results from accessible soil samples:

Chemical	Connecticut Direct Exposure Criteria Residential (mg/kg)	Connecticut GB PMC (mg/kg)[1]	Detection Frequency	Max Detection (mg/kg)	Average Conc. (mg/kg)
Total PCBs	1	0.1	4/20	3.84	0.253

Notes:
All concentrations are shown in milligrams per kilogram (mg/kg).
Shading indicates at least one sample result is above Connecticut criteria.
1 – The criteria listed for PCBs is the volume-based GB PMC for PCBs multiplied by 20 to simulate a mass-based GB PMC value for PCBs.

As indicated by the above table, one PCB concentration exceeds the Residential DEC, and some of the detections also exceed the theoretical mass-based GB-PMC for PCBs. The following table provides a summary of the 95% UCL of the mean for PCBs:

Chemical	Connecticut Direct Exposure Criteria Residential (mg/kg) [1]	Connecticut GB-PMC (mg/kg) [1]	95% UCL of the Mean (mg/kg)
Total PCBs	1	0.1	1.15

Notes:
1 – The criteria listed for PCBs is the volume-based GB PMC for PCBs multiplied by 20 to simulate a mass-based GB PMC value for PCBs.
All concentrations are shown in milligrams per kilogram (mg/kg).

The 95% UCL of the mean for the total PCBs data is slightly above the Residential DEC, and an order of magnitude above the theoretical mass-based GB-PMC for PCBs.

The source of the PCB contamination of soil is not known. Site history does not identify whether spills of PCB-containing materials occurred, or if it is the result of PCB-containing building materials presence. The PCB detections in soil samples appear to be limited to the uppermost 2 feet of soil. KGSNE recommends that the PCB contamination be addressed prior to site redevelopment.

4.2.1.4 RCP-15 Metals

Metals were detected in all soil samples. Antimony was detected above the R-DEC standard in the MW-4 (0-2') sample. Arsenic was detected above the R-DEC standard in the B-2 (0-2'), B-10

(0-2'), B-10 (2-4'), MW-4 (0-2'), and MW-6 (0-2') and MW-6 (3-5') samples. Lead was detected above the R-DEC standard in the B-2 (0-2'), B-7 (0-2'), MW-4 (0-2'), and MW-4 (2-4') samples.

The following table summarizes the metals results from accessible soil samples:

Chemical	Connecticut Direct Exposure Criteria Residential (mg/kg)	Connecticut GB PMC (mg/kg)[1]	Detection Frequency	Max Detection (mg/kg)	Average Conc. (mg/kg)
Antimony	27	1.2	3/20	68.2	5.74
Arsenic	10	10	18/20	51.9	12.6
Barium	4,700	200	19/20	164	77.8
Beryllium	2	0.8	18/20	0.71	0.551
Cadmium	34	1	6/20	2.5	0.715
Chromium	3,900	10	20/20	19.8	12.6
Copper	2,500	260	20/20	357	71.4
Lead	400	3	20/20	7,450	567
Mercury	20	0.4	14/20	11	0.764
Nickel	1,400	20	20/20	29.5	11.8
Selenium	340	10	2/20	3.3	1.79
Silver	340	7.2	14/20	1.1	0.736
Thallium	5.4	1	1/20	2	0.768
Vanadium	470	10	19/20	407	60.6
Zinc	20,000	1,000	20/20	1,110	192

Notes:
1 – The criteria listed for metals is the volume-based GB PMC for each metal multiplied by 20 to simulate a mass-based GB PMC value for metals.
All concentrations are shown in milligrams per kilogram (mg/kg).
Shading indicates at least one sample result is above Connecticut criteria.
The average concentrations are reported with half the reporting limit for non-detect results.

As presented in the above table, an elevated lead concentration (7,450 mg/kg) was detected. The sample was collected from the MW-4 boring in the 0-2 foot sample. In addition to exceeding the Residential DEC, this concentration also exceeds the CT DEEP Significant Environmental Hazard (SHE) notification threshold for a residential land use (6,000 mg/kg).

In addition to lead, concentrations of antimony and arsenic exceed the Residential DEC as well as the theoretical mass-based GB-PMC value. Concentrations of cadmium, chromium, mercury, nickel, thallium, and vanadium exceed only the theoretical mass-based GB-PMC value.

The following table provides a summary of the 95% UCL of the mean for these metals.

Chemical	Connecticut Direct Exposure Criteria Residential (mg/kg)	Connecticut GB-PMC (mg/kg) [1]	95% UCL of the Mean (mg/kg)
Antimony	27	1.2	12.74
Arsenic	10	10	19.69
Cadmium	34	1	1.02
Chromium	3,900	10	13.93
Lead	400	3	1,249
Mercury	20	0.4	3.06
Nickel	1,400	20	14.01
Thallium	5.4	1	Cannot calculate
Vanadium	470	10	147.3

Notes:
1 – The criteria listed for metals is the volume-based GB PMC for each metal multiplied by 20 to simulate a mass-based GB PMC value for metals.
Shading indicates at least one sample result is above Connecticut criteria
95% UCL of the mean cannot be calculated for thallium based on only one detection.
All concentrations are shown in milligrams per kilogram (mg/kg).

The 95% UCL of the mean for arsenic and lead in soil samples exceeds the Residential DEC and the theoretical mass-based GB-PMC. Antimony, chromium, mercury, and vanadium exceed only the theoretical mass-based GB PMC.

KGSNE selected soil samples exhibiting elevated metals contamination for further SPLP analyses. The following table summarizes the SPLP data.

Chemical	Connecticut GB PMC (µg/L)	Detection Frequency	Max Detection (µg/L)	Average Conc. (µg/L)
Antimony	Not available	Not analyzed	--	--
Arsenic	500	0/5	--	--
Chromium	500	0/5	--	--
Lead	150	5/5	109	63.46
Mercury	20	2/5	0.00062	0.0002
Vanadium	500	Not analyzed	--	--

Notes:
All concentrations are shown in micrograms per liter (µg/L).
Shading indicates at least one sample result is above Connecticut criteria.
The average concentrations are reported with half the reporting limit for non-detect results.

None of the metals analyzed via SPLP exceeded the GB-PMC. Therefore, significant groundwater impacts due to metals presence in soil are not likely.

According to guidance documents from CT DEEP, the client/property owner must be notified of an SEH within 7 days, and they have 90 days to notify CT DEEP or complete response actions or interim measures to define extent, prevent access, and recommend further actions. KGSNE notified EPA of the SEH on September 3, 2021, who in turn notified the City. It is Nobis' understanding that the City re-installed a perimeter Site fence that was formerly at the property to prevent access to SEH conditions until metals impacted soil is addressed.

The source of the arsenic and lead in Site soil is not known; however, the contamination appears to correlate well with the presence of fill materials and PAH presence. Some arsenic/lead impacts are noted in deeper soil samples collected from up to 5 feet below grade possibly suggesting that the contamination may have been intermixed when emplaced and/or during subsequent demolition and/or earthwork activity at the Site.

To support site redevelopment, additional remedial actions will be required to address the arsenic and lead contamination of site soil samples.

4.2.2 Groundwater Analytical Results

Groundwater analytical results are presented on Table 4-2 and summarized below. The following table summarizes the groundwater physical and geochemical parameters measured during sample collection:

Monitoring Well	Temperature (°C)	Specific Conductivity (µS/cmc)	pH (SU)	ORP (mV)	DO (mg/L)	Turbidity (NTU)
MW-1R	18.9	445	5.98	84.1	2.26	119
MW-2	18.8	403	6.11	-9.6	0.48	1.06
MW-3	21.2	853	6.45	-72.5	0.3	0.25
MW-4	17.9	656	6.19	-14	1.43	15.1
MW-5	19.2	507	6.25	25.1	1.59	0.8
MW-6	19.5	338	6.25	-63.9	0.39	4.21

4.2.2.1 Volatile Organic Compounds

Chloroform was detected in the sample collected from MW-1R and naphthalene was detected in the sample collected from MW-6. Concentrations were detected well below the applicable R-

GWVC and SWPC. No other VOCs were detected in the groundwater samples collected. Based on this data, no groundwater remedial actions are necessary to address VOCs in groundwater.

4.2.2.2 Polynuclear Aromatic Hydrocarbons

PAHs were detected in the groundwater samples collected from MW-3, MW-4, and MW-6. The following table summarizes the PAH analytical results:

Chemical	Connecticut SWPC (µg/L)	Detection Frequency	Max Detection (µg/L)	Average Conc. (µg/L)
2-Methylnaphthalene	62	6/6	937	187
Acenaphthene	150	1/6	0.523	0.118
Acenaphthylene	0.3	1/6	0.639	0.137
Anthracene	1,100,000	1/6	0.231	0.0693
Benzo(b)fluoranthene	0.3	2/6	0.0517	0.0285
Fluoranthene	3,700	2/6	0.198	0.078
Fluorene	140,000	1/6	0.572	0.126
Naphthalene	210	2/6	7.28	1.25
Phenanthrene	14	2/6	0.946	0.2
Pyrene	110,000	2/6	0.17	0.072

Notes:
All concentrations are shown in micrograms per liter (µg/L).
Shading indicates at least one sample result is above Connecticut criteria which includes the Connecticut Additional Polluting Substances recommended criteria.
The average concentrations are reported with half the reporting limit for non-detect results.

The maximum PAH detections are from MW-6, and of those detections, only 2-methylnaphthalene and acenaphthylene exceeded the SWPC in one of the six samples. The PAH contamination exceeding Connecticut criteria does not appear to be significant or widespread; however, it may not be fully characterized in the downgradient and cross-gradient zones. Additional groundwater sample collection may be warranted to further establish the nature and extent of the 2-methylnaphthalene and acenaphthylene impacted groundwater. Alternately, as no detections of ETPH (see subsequent section) were reported, the detections may be the result of colloidal-sized particulates passing through the monitoring well screen and filter pack. Additional samples may be required to verify this potential.

4.2.2.3 Extractable Total Petroleum Hydrocarbons

The six groundwater samples collected were analyzed for ETPH, no detections of ETPH were identified.

4.2.2.4 Pesticides

The six groundwater samples collected were analyzed for pesticides, no detections of pesticides were identified.

4.2.2.5 Polychlorinated Biphenyls

The six groundwater samples collected were analyzed for PCBs, no detections of PCBs were identified.

4.2.2.6 Total RCP-15 Metals

Nine of the 15 metals on Connecticut's RCP list were detected in at least one groundwater sample. Of these detections, only lead exceeded the SWPC in two samples (collected from MW-1R and MW-3). The following table summarizes the total metals analytical results:

Chemical	Connecticut SWPC (µg/L)	Detection Frequency	Max Detection (µg/L)	Average Conc. (µg/L)
Arsenic	4	1/6	2.4	1.23
Barium	2200	6/6	153	92.2
Chromium	1200	2/6	10.8	3.23
Copper	48	2/6	39.7	8.18
Lead	13	2/6	43.7	13
Nickel	880	4/6	3.9	2.2
Selenium	50	1/6	3.7	1.45
Vanadium	270	2/6	13.6	3.88
Zinc	123	6/6	75.8	29.2

Notes:
All concentrations are shown in micrograms per liter (µg/L).
Shading indicates at least one sample result is above Connecticut criteria.
The average concentrations are reported with half the reporting limit for non-detect results.

The source of the lead contamination is not known. Possible sources may include the reported former UST (reportedly gasoline-containing and likely leaded gasoline) located proximal to MW-3 however, no detections of gasoline-related VOCs or ETPH were reported in either monitoring

well. An additional source may be related to lead-containing building materials (such as paints) formerly present on-site and now presumably intermixed with the shallow fill materials. This association appears to be significantly more likely as all five of the SPLP samples analyzed for lead were positive with concentrations of up to 109 µg/L.

5.0 CONCLUSIONS

KGSNE conducted a geophysical investigation which identified the possible presence of at least one former UST, former utilities, and former building foundations. ETPH concentrations exceed the soil Residential DEC at these two locations and may be indicative of soil impacts from these potential USTs. Further investigation of the suspect USTs would be necessary to evaluate their potential to release contaminants to subsurface soil and groundwater.

KGSNE advanced soil borings, installed monitoring wells, and collected soil and groundwater samples to evaluate the Site for contamination prior to planned Site redevelopment as a neighborhood park.

Detectable concentrations of several PAHs, ETPH, pesticides, PCBS, and metals in soil and several PAHs and lead in groundwater were identified. Of these detections, several PAHs, ETPH, PCBs, arsenic, and lead were detected at concentrations which requires additional investigation and remedial action to address. Most significantly, the lead concentration detected in surface soil at MW-4 (7,450 mg/kg) exceeds the Residential DEC and the CT DEEP SEH concentration. KGSNE notified EPA of the SEH on September 3, 2021, which in turn notified the City.

PAH concentrations exceed the soil criteria at B-3, B-8, MW-4, MW-6, and MW-1R. PAH, ETPH, and Metals SPLP analytical results for soil samples did not exceed the Residential DEC or SWPC. Two PAHs (2-methylnaphthalene and acenaphthylene) exceed the groundwater criteria at MW-6. The groundwater impacts may be related to either precipitation leaching through impacted vadose zone soil, or to the possible UST located near the impacted monitoring well MW-6. Acenaphthylene is generally insoluble in water, 2-methylnaphthylene is moderately soluble in water. SPLP PAH data indicated that acenaphthylene presented a potential leaching concern as the SPLP data exceeded the SWPC in several monitoring wells. 2-Methylnaphthalene SPLP concentrations did not exceed criteria in any of the groundwater samples. Further evaluation will

be necessary to determine whether the groundwater impacts result from colloidal or dissolved phase transport.

PAHs and metals are commonly associated with urban fill. KGSNE noted fill materials that included wood, brick, and glass in all surface soil samples except for those collected at MW-5, B-9, and B-7. Soil borings with urban fill noted coincide with locations where soil criteria were exceeded. Conversely, Locations that did not have notable urban fill did not exceed soil criteria. This suggests that urban fill may be the contributing factor to surface soil contamination detected at the Site.

Lead concentrations exceed the SWPC in groundwater samples collected from MW-3 and MW-1R. MW-1R is located downgradient of MW-3. Soil in this vicinity did not exhibit significant lead impacts; however, as presented in the SPLP data, even comparatively low concentrations of lead in soil could contribute to lead concentrations exceeding the SWPC (13 µg/L).

<u>Other Contaminants</u>

- VOCs concentrations detected in both soil and groundwater samples did not exceed the Connecticut criteria.
- Pesticide concentrations in three soil samples exceeded the GB-PMC APS, but not the Residential DEC APS. However, the 95% UCL of the mean for each detected pesticide only slightly exceeded this APS, which when coupled with the lack of detectable pesticides in groundwater samples suggests that no additional action is necessary.
- PCB concentrations exceeded the Residential DEC in soil collected from B-10. The 95% UCL of the mean also exceeded the Residential DEC. PCBs were not detected in groundwater samples.

6.0 REMEDIAL RECOMMENDATIONS AND COST ESTIMATE

As expressed in the preceding section, action should be taken to address the contaminated soil impacts within accessible soil (as defined by the Connecticut RSRs). The subsections below identify the remedial action objectives and available remedial alternatives to achieve those objectives.

6.1 Remedial Objectives and Goals

According to the City of New London, the desired use endpoint for this property is a neighborhood park. The following remedial action objectives (RAOs) would promote this site's use as a neighborhood park:

- Prevention to the extent feasible of direct contact with contaminated soil exceeding the Residential DECs.
- Investigate the potential presence of USTs, and if present, mitigate potential risks associated with them.
- Minimize to the extent feasible the generation and migration of dust and other particulates from the Site during the remedial action.

The Residential DEC for the contaminants of concern are summarized in the table below.

Contaminant of Concern	Residential DEC Cleanup Goal (mg/kg)
Benzo(a)anthracene	1
Benzo(a)pyrene	1
Benzo(b)fluoranthene	1
ETPH	500
Total PCBs	1
Arsenic	10
Lead	400

6.2 TBA Remedial Alternatives and Analysis

Contaminated soil exists throughout much of the Site within the uppermost 2-3 feet; however, deeper impacts exist in some areas. The volume of contaminated soil will vary based on the comprehensiveness of each remedial technology and alternative.

6.2.1 Source Areas

The sources areas requiring action include the two possible USTs and accessible contaminated soil.

6.2.1.1 Technology Screening and Development of Alternatives

Table 6-1 presents a summary of the RAOs, general response actions, technology types, and process options for the soil contamination. Table 6-2 presents a summary of the initial screening of possible remedial technologies.

As summarized in Table 6-2, the in-situ and a majority of the ex-situ treatment technologies are eliminated due to lack of demonstrable effectiveness at treating all of the CoCs in shallow/surface soil, difficulties in implementing the remedy given the intended post-remediation site development, or inability in attaining RAOs.

Based on the process options and technology screening, the following remedial alternatives were assembled for further evaluation:

- Alternative SC-01: No action;
- Alternative SC-02: UST Investigation/Removals with Comprehensive Excavation and Off-Site Land Disposal;
- Alternative SC-03: UST Investigation/Removals with Targeted Excavation, Off-Site Land Disposal, and Institutional Controls; and
- Alternative SC-04: UST Investigation/Removals with Comprehensive Single-Layer Barrier System Installation, and Institutional Controls

A brief summary of each alternative is presented below:

- Alternative SC-01: No action
    - No actions are taken to address the possible UST presence or to address the risk associated with the accessible soil contamination.

- Alternative SC-02: UST Investigation/Removals with Comprehensive Excavation and Off-Site Land Disposal:
    - Investigate whether USTs are present in the suspected areas and remove them if present;
    - Remove soil impacted by releases from these USTs (if necessary) (estimated at 500 cubic yards [CY] in-situ);

- Excavate 4 feet of soil from the remaining property (estimated at approximately 3,300 CY in-situ) and temporarily stockpile on-site for characterization and disposal;
- Place a nonwoven geotextile warning layer below at the base of the excavation;
- Backfill and compact excavation with clean suitable backfill; and
- Stabilize the site and/or place hydroseed for pending redevelopment.

- Alternative SC-03: UST Investigation/Removals with Targeted Excavation, Off-Site Land Disposal, and Institutional Controls
  - Investigate whether USTs are present in the suspected areas and remove them if present;
  - Remove soil impacted by releases from these USTs (if necessary) (estimated at 500 CY in-situ);
  - Excavate 4 feet of soil from the most significantly impacted areas of the Site (estimated at approximately 1,000 CY in-situ and temporarily stockpile on-site for characterization and disposal;
  - Place a nonwoven geotextile warning layer below at the base of the excavation;
  - Backfill and compact excavation with clean suitable backfill;
  - Stabilize the site and/or place hydroseed for pending redevelopment; and
  - Placement of an environmental land use restriction (ELUR) preventing (at a minimum) residential land usage, export of soil without first complying with a soil management plan, and damage to the placed warning layer.

- Alternative SC-04: UST Investigation/Removals with Comprehensive Single-Layer Barrier System Installation, and Institutional Controls
  - Investigate whether USTs are present in the suspected areas and remove them if present;
  - Remove soil impacted by releases from these USTs (if necessary) (estimated at 500 CY in-situ);
  - Place a nonwoven geotextile warning layer below the cover system;
  - Place and compact 4 feet of clean fill (estimated at 3,800 CY) throughout the entire parcel to render the contaminated soil inaccessible;
  - Stabilize the site and/or place hydroseed for pending redevelopment; and

- Placement of an ELUR preventing (at a minimum) residential land usage, export of soil without first complying with a soil management plan, and damage to the cover system while obligating the continued maintenance of the cover system.

6.2.1.2 Detailed Analysis of Alternatives

The few remedial retained alternatives that address the soil contamination were assembled and screened for detailed analysis. The detailed analysis of the assembled alternatives will consist of an evaluation of:

- Attainment of RAOs;
- Compliance with local, state, and federal laws/regulations or other public concerns;
- Technical feasibility;
- Short/Long-Term Effectiveness and Permanency; and
- Cost

Table 6-3 provides a summary of the detailed analysis of the assembled alternatives. Appendix F presents a summary of the estimated remedial action alternative costs.

The four remedial alternatives for addressing the USTs and contaminated soil are evaluated with each criterion being weighted equally in the following comparative analysis table. Each alternative is evaluated for each criterion with 0 representing the inability to achieve the criteria, and 4 being the highest ability to achieve the criteria or is of the most overall benefit.

Remedial Alternative	Attainment of RAOs	Compliance with Regulations/ Public Concerns	Technical Feasibility	Short/Long-Term Effectiveness and Permanency	Cost	Weighted Score
Weighting	0.2	0.2	0.2	0.2	0.2	
SC-01: No action	0	0	4	0	4	1.6
SC-02: UST Investigation/Removals with Comprehensive Excavation and Off-Site Land Disposal	4	4	2	4	1	3
SC-03: UST Investigation/Removals with Targeted Excavation, Off-Site Land Disposal, and Institutional Controls	4	3.5	3.5	3	2	3.2
SC-04: UST Investigation/Removals with Comprehensive Single-Layer Barrier System Installation, and Institutional Controls	4	3	3	2.5	3	3.1

As noted in Table 6-3, Alternative SC-01 does not achieve the RAOs or support site redevelopment and is therefore not a preferable remedial alternative. Alternatives SC-02, SC-03, and SC-04 equally attain the RAOs.

The three viable alternatives comply with the requisite regulations; however, covering the area over would likely not be as acceptable to the environmental justice community as partial or complete removal of the soil contamination.

Of the three viable alternatives, SC-03 is the most feasible as it involves the smallest volume of contaminated soil export/disposal and clean fill import. Alternative SC-02 represents the least feasible alternative as it results in a significant soil volume for excavation and transport and disposal. Similarly, Alternative SC-04 results in a significant volume of clean fill import; however, numerous potential sources of clean fill import are available versus relatively few contaminated soil disposal facilities (for wastes with these contaminants of concern). These facilities may not have permitted capacity for that volume of soil.

Although still an effective option, Alternative SC-04 is the least effective because it does not remove contaminated soil (other than soil related to potential UST releases), depends on the

continued maintenance of a cover system, and vigilant inspections and compliance with an ELUR. Alternative SC-02 is the most effective because it removed the most volume of contaminated soil.

Present value cost estimates for the viable alternatives vary between $474,000 and $1,600,000, with SC-02 representing the highest cost, and SC-04 representing the lowest cost. Based on the ease of implementation, anticipated environmental justice community acceptance, and long-term effectiveness, KGSNE recommends SC-03 as the preferred alternative at an estimated present value cost of $716,000.

6.2.2 Groundwater Impacts

Monitoring well MW-6 presented the only groundwater samples exhibiting SWPC exceedances (2-methylnaphthalene and acenaphthylene). The likely sources of these impacts are either past releases from a nearby UST or precipitation percolation through impacted vadose zone soil. In either circumstance evaluating the presence of the UST and subsequent removal coupled with contaminated soil removal is expected to result in a lessening of the groundwater impacts. Therefore, no active groundwater remediation is evaluated.

6.3 EPA Green Remediation

The selected remedy aligns with several of the goals included in the EPA Region 1 Green Remediation Policy (EPA, 2012) including:

- Minimize total energy use and maximize use of renewable energy.
- Minimize air emissions and greenhouse gas generation.
- Minimize water use and impacts to water resources.
- Reduce, reuse, and recycle materials (USTs) and wastes; and
- Protect and minimize adverse impacts to land and ecosystems.

Energy use, air emissions and greenhouse gas generation can be reduced with the use of biofuel blends in the construction equipment on site and by minimizing the amount of time equipment idles on-site.

USTs should be salvaged and recycled.

Impacts to water resources are minimized by removing contaminated soil.

Adverse impacts to land and ecosystems are minimized by performing the remedy, as the contamination identified on-site is present in shallow soil and poses a greater risk if left in place.

The selected remedy will allow for redevelopment of the site as a neighborhood park.

REFERENCES

Connecticut Department of Energy and Environmental Protection, Connecticut Water Quality Standards, 2015. November 2015.

Connecticut Department of Energy and Environmental Protection, Remediation Standards, 2021. March 9..

Delta Environmental Services, Inc., *Site Inspection Update,* December 1, 1997.

Delta Environmental Services, Inc., *Phase II ESA,* October 10, 2000.

Delta Environmental Services, Inc., *Supplemental Subsurface Investigation,* June 22, 2001.

Delta Environmental Services, Inc., *Draft Remedial Action Plan,* January 25, 2002.

EPA Region I. 2009.Planning and Documenting Brownfields Projects Generic Quality Assurance Project Plans and Site Specific QAPP Addenda. March.

KGSNE JV, LLC. 2017. Program Quality Assurance Project Plan; RFA# 17078. May 2017.

KGSNE JV, LLC. 2020. *Phase I Environmental Site Assessment,* June 3, 2020.

TABLES

Table 4-1
TBA Soil Sample Analytical Results
43 Hempstead Street TBA
New London, Connecticut

Location					B-2		B-3		B-7		B-8			B-9		B-10		MW-4	
Depth Interval					0 - 2 ft	5 - 7 ft	0 - 2 ft	3 - 5 ft	0 - 2 ft	5 - 7 ft	0 - 2 ft		5 - 7 ft	0 - 2 ft	3 - 5 ft	0 - 2 ft	2 - 4 ft	0 - 2 ft	2 - 4 ft
Sample Date					08/10/2021	08/10/2021	08/10/2021	08/10/2021	08/09/2021	08/09/2021	08/09/2021		08/09/2021	08/09/2021	08/09/2021	08/09/2021	08/09/2021	08/10/2021	08/10/2021
Sample Type					N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	CT Residential DEC	CT GB-PMC	B-2-0002	B-2-0507	B-3-0002	B-3-0305	B-7-0002	B-7-0507	B-8-0002	FD-01-20210809	B-8-0507	B-9-0002	B-9-0305	B-10-0002	B-10-0204	MW-4-0002	MW-4-0204
Volatiles																			
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	24	0.02	0.0014 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0011 U	0.0013 U	0.0015 U	0.0012 U	0.0015 U	0.0012 U	0.0017 U	0.0052 U	0.0015 U	0.0017 U
1,1,1-Trichloroethane	71-55-6	mg/kg	500	4	0.0014 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0011 U	0.0013 U	0.0015 U	0.0012 U	0.0015 U	0.0012 U	0.0017 U	0.0052 U	0.0015 U	0.0017 U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	3.1	0.01	0.0014 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0011 U	0.0013 U	0.0015 U	0.0012 U	0.0015 U	0.0012 U	0.0017 U	0.0052 U	0.0015 U	0.0017 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	mg/kg	500	20	0.0036 U	0.0031 U	0.003 U	0.0027 U	0.003 U	0.0028 U	0.0032 U	0.0037 U	0.0029 U	0.0037 U	0.003 U	0.0041 U	0.013 U	0.0037 U	0.0042 U
1,1,2-Trichloroethane	79-00-5	mg/kg	11	0.1	0.0014 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0011 U	0.0013 U	0.0015 U	0.0012 U	0.0015 U	0.0012 U	0.0017 U	0.0052 U	0.0015 U	0.0017 U
1,1-Dichloroethane	75-34-3	mg/kg	500	1.4	0.00071 U	0.00062 U	0.00061 U	0.00054 U	0.00061 U	0.00057 U	0.00064 U	0.00073 U	0.00058 U	0.00075 U	0.0006 U	0.00083 U	0.0026 U	0.00073 U	0.00084 U
1,1-Dichloroethene	75-35-4	mg/kg	1	0.14	0.00071 U	0.00062 U	0.00061 U	0.00054 U	0.00061 U	0.00057 U	0.00064 U	0.00073 U	0.00058 U	0.00075 U	0.0006 U	0.00083 U	0.0026 U	0.00073 U	0.00084 U
1,1-Dichloropropene	563-58-6	mg/kg	--	--	0.0014 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0011 U	0.0013 U	0.0015 U	0.0012 U	0.0015 U	0.0012 U	0.0017 U	0.0052 U	0.0015 U	0.0017 U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	--	--	0.0036 UJ	0.0031 UJ	0.003 UJ	0.0027 UJ	0.003 UJ	0.0028 UJ	0.0032 UJ	0.0037 UJ	0.0029 UJ	0.0037 UJ	0.003 UJ	0.0041 UJ	0.013 UJ	0.0037 UJ	0.0042 UJ
1,2,3-Trichloropropane	96-18-4	mg/kg	--	--	0.0036 U	0.0031 U	0.003 U	0.0027 U	0.003 U	0.0028 U	0.0032 U	0.0037 U	0.0029 U	0.0037 U	0.003 U	0.0041 U	0.013 U	0.0037 U	0.0042 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	21	1.4	0.0036 UJ	0.0031 UJ	0.003 UJ	0.0027 UJ	0.003 UJ	0.0028 UJ	0.0032 UJ	0.0037 UJ	0.0029 UJ	0.0037 UJ	0.003 UJ	0.0041 UJ	0.013 UJ	0.0037 UJ	0.0042 UJ
1,2,4-Trimethylbenzene	95-63-6	mg/kg	500	2.8	0.0014 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0011 U	0.0013 U	0.0015 U	0.0012 U	0.0015 U	0.0012 U	0.0017 U	0.0052 U	0.0015 U	0.0017 U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0.09	0.005	0.0014 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0011 U	0.0013 U	0.0015 U	0.0012 U	0.0015 U	0.0012 U	0.0017 U	0.0052 U	0.0015 U	0.0017 U
1,2-Dibromoethane	106-93-4	mg/kg	0.007	0.01	0.00071 U	0.00062 U	0.00061 U	0.00054 U	0.00061 U	0.00057 U	0.00064 U	0.00073 U	0.00058 U	0.00075 U	0.0006 U	0.00083 U	0.0026 U	0.00073 U	0.00084 U
1,2-Dichlorobenzene	95-50-1	mg/kg	500	3.1	0.00071 UJ	0.00062 UJ	0.00061 UJ	0.00054 UJ	0.00061 UJ	0.00057 UJ	0.00064 UJ	0.00073 UJ	0.00058 UJ	0.00075 UJ	0.0006 UJ	0.00083 UJ	0.0026 UJ	0.00073 UJ	0.00084 UJ
1,2-Dichloroethane	107-06-2	mg/kg	6.7	0.02	0.00071 U	0.00062 U	0.00061 U	0.00054 U	0.00061 U	0.00057 U	0.00064 U	0.00073 U	0.00058 U	0.00075 U	0.0006 U	0.00083 U	0.0026 U	0.00073 U	0.00084 U
1,2-Dichloropropane	78-87-5	mg/kg	9	0.1	0.0014 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0011 U	0.0013 U	0.0015 U	0.0012 U	0.0015 U	0.0012 U	0.0017 U	0.0052 U	0.0015 U	0.0017 U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	500	2.8	0.0014 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0011 U	0.0013 U	0.0015 U	0.0012 U	0.0015 U	0.0012 U	0.0017 U	0.0052 U	0.0015 U	0.0017 U
1,3-Dichlorobenzene	541-73-1	mg/kg	500	12	0.00071 UJ	0.00062 UJ	0.00061 UJ	0.00054 UJ	0.00061 UJ	0.00057 UJ	0.00064 UJ	0.00073 UJ	0.00058 UJ	0.00075 UJ	0.0006 UJ	0.00083 UJ	0.0026 UJ	0.00073 UJ	0.00084 UJ
1,3-Dichloropropane	142-28-9	mg/kg	--	--	0.0014 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0011 U	0.0013 U	0.0015 U	0.0012 U	0.0015 U	0.0012 U	0.0017 U	0.0052 U	0.0015 U	0.0017 U
1,4-Dichlorobenzene	106-46-7	mg/kg	26	1.5	0.00071 UJ	0.00062 UJ	0.00061 UJ	0.00054 UJ	0.00061 UJ	0.00057 UJ	0.00064 UJ	0.00073 UJ	0.00058 UJ	0.00075 UJ	0.0006 UJ	0.00083 UJ	0.0026 UJ	0.00073 UJ	0.00084 UJ
2,2-Dichloropropane	594-20-7	mg/kg	--	--	0.0014 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0011 U	0.0013 U	0.0015 U	0.0012 U	0.0015 U	0.0012 U	0.0017 U	0.0052 U	0.0015 U	0.0017 U
2-Butanone	78-93-3	mg/kg	500	8	0.0071 U	**0.0136**	0.0061 U	0.0054 U	0.0061 U	0.0057 U	0.0064 U	0.0073 U	0.0058 U	0.0075 U	0.006 U	0.0083 U	0.026 U	0.0073 U	**0.0133**
2-Chlorotoluene	95-49-8	mg/kg	500	2.8	0.0014 UJ	0.0012 UJ	0.0012 UJ	0.0011 UJ	0.0012 UJ	0.0011 UJ	0.0013 UJ	0.0015 UJ	0.0012 UJ	0.0015 UJ	0.0012 UJ	0.0017 UJ	0.0052 UJ	0.0015 UJ	0.0017 UJ
2-Hexanone	591-78-6	mg/kg	340	0.7	0.0036 U	0.0031 U	0.003 U	0.0027 U	0.003 U	0.0028 U	0.0032 U	0.0037 U	0.0029 U	0.0037 U	0.003 U	0.0041 U	0.013 U	0.0037 U	0.0042 U
4-Chlorotoluene	106-43-4	mg/kg	500	2.8	0.0014 UJ	0.0012 UJ	0.0012 UJ	0.0011 UJ	0.0012 UJ	0.0011 UJ	0.0013 UJ	0.0015 UJ	0.0012 UJ	0.0015 UJ	0.0012 UJ	0.0017 UJ	0.0052 UJ	0.0015 UJ	0.0017 UJ
4-Isopropyltoluene	99-87-6	mg/kg	500	0.5	0.0014 UJ	0.0012 UJ	0.0012 UJ	0.0011 UJ	0.0012 UJ	0.0011 UJ	0.0013 UJ	0.0015 UJ	0.0012 UJ	0.0015 UJ	0.0012 UJ	0.0017 UJ	0.0052 UJ	0.0015 UJ	0.0017 UJ
4-Methyl-2-pentanone	108-10-1	mg/kg	500	7	0.0036 U	0.0031 U	0.003 U	0.0027 U	0.003 U	0.0028 U	0.0032 U	0.0037 U	0.0029 U	0.0037 U	0.003 U	0.0041 U	0.013 U	0.0037 U	0.0042 U
Acetone	67-64-1	mg/kg	500	14	0.0071 U	**0.062**	0.0061 U	0.0054 U	0.0061 U	**0.0078**	0.0064 U	0.0073 U	**0.0101**	0.0075 U	**0.01**	**0.0117**	0.026 U	0.0073 U	**0.0644**
Acrylonitrile	107-13-1	mg/kg	1.1	0.01	0.0071 U	0.0062 U	0.0061 U	0.0054 U	0.0061 U	0.0057 U	0.0064 U	0.0073 U	0.0058 U	0.0075 U	0.006 U	0.0083 U	0.026 U	0.0073 U	0.0084 U
Benzene	71-43-2	mg/kg	21	0.02	0.00036 U	0.00031 U	0.0003 U	0.00027 U	0.0003 U	0.00028 U	0.00032 U	0.00037 U	0.00029 U	0.00037 U	0.0003 U	0.00041 U	0.0013 U	0.00037 U	0.00042 U
Bromobenzene	108-86-1	mg/kg	--	--	0.0036 UJ	0.0031 UJ	0.003 UJ	0.0027 UJ	0.003 UJ	0.0028 UJ	0.0032 UJ	0.0037 UJ	0.0029 UJ	0.0037 UJ	0.003 UJ	0.0041 UJ	0.013 UJ	0.0037 UJ	0.0042 UJ
Bromodichloromethane	75-27-4	mg/kg	18	0.02	0.0014 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0011 U	0.0013 U	0.0015 U	0.0012 U	0.0015 U	0.0012 U	0.0017 U	0.0052 U	0.0015 U	0.0017 U
Bromoform	75-25-2	mg/kg	78	0.08	0.0036 U	0.0031 U	0.003 U	0.0027 U	0.003 U	0.0028 U	0.0032 U	0.0037 U	0.0029 U	0.0037 U	0.003 U	0.0041 U	0.013 U	0.0037 U	0.0042 U
Bromomethane	74-83-9	mg/kg	34	0.07	0.0036 U	0.0031 U	0.003 U	0.0027 U	0.003 U	0.0028 U	0.0032 U	0.0037 U	0.0029 U	0.0037 U	0.003 U	0.0041 U	0.013 U	0.0037 U	0.0042 U
Carbon disulfide	75-15-0	mg/kg	500	0.8	0.0014 UJ	0.0012 UJ	0.0012 UJ	0.0011 UJ	0.0012 UJ	0.0011 UJ	0.0013 UJ	0.0015 UJ	0.0012 UJ	0.0015 UJ	0.0012 UJ	0.0017 UJ	0.0052 UJ	0.0015 UJ	0.0017 UJ
Carbon tetrachloride	56-23-5	mg/kg	4.7	0.1	0.0014 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0011 U	0.0013 U	0.0015 U	0.0012 U	0.0015 U	0.0012 U	0.0017 U	0.0052 U	0.0015 U	0.0017 U
Chlorobenzene	108-90-7	mg/kg	500	2	0.0014 UJ	0.0012 UJ	0.0012 UJ	0.0011 UJ	0.0012 UJ	0.0011 UJ	0.0013 UJ	0.0015 UJ	0.0012 UJ	0.0015 UJ	0.0012 UJ	0.0017 UJ	0.0052 UJ	0.0015 UJ	0.0017 UJ
Chloroethane	75-00-3	mg/kg	130	0.15	0.0036 U	0.0031 U	0.003 U	0.0027 U	0.003 U	0.0028 U	0.0032 U	0.0037 U	0.0029 U	0.0037 U	0.003 U	0.0041 U	0.013 U	0.0037 U	0.0042 U
Chloroform	67-66-3	mg/kg	100	0.12	0.0014 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0011 U	0.0013 U	0.0015 U	0.0012 U	0.0015 U	0.0012 U	0.0017 U	0.0052 U	0.0015 U	0.0017 U
Chloromethane	74-87-3	mg/kg	180	0.36	0.0036 U	0.0031 U	0.003 U	0.0027 U	0.003 U	0.0028 U	0.0032 U	0.0037 U	0.0029 U	0.0037 U	0.003 U	0.0041 U	0.013 U	0.0037 U	0.0042 U
cis-1,2-Dichloroethene	156-59-2	mg/kg	500	1.4	0.00071 U	0.00062 U	0.00061 U	0.00054 U	0.00061 U	0.00057 U	0.00064 U	0.00073 U	0.00058 U	0.00075 U	0.0006 U	0.00083 U	0.0026 U	0.00073 U	0.00084 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	--	--	0.0014 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0011 U	0.0013 U	0.0015 U	0.0012 U	0.0015 U	0.0012 U	0.0017 U	0.0052 U	0.0015 U	0.0017 U
Dibromochloromethane	124-48-1	mg/kg	7.3	0.01	0.0014 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0011 U	0.0013 U	0.0015 U	0.0012 U	0.0015 U	0.0012 U	0.0017 U	0.0052 U	0.0015 U	0.0017 U
Dibromomethane	74-95-3	mg/kg	--	--	0.0036 U	0.0031 U	0.003 U	0.0027 U	0.003 U	0.0028 U	0.0032 U	0.0037 U	0.0029 U	0.0037 U	0.003 U	0.0041 U	0.013 U	0.0037 U	0.0042 U
Dichlorodifluoromethane	75-71-8	mg/kg	500	7	0.0036 UJ	0.0031 UJ	0.003 UJ	0.0027 UJ	0.003 UJ	0.0028 UJ	0.0032 UJ	0.0037 UJ	0.0029 UJ	0.0037 UJ	0.003 UJ	0.0041 UJ	0.013 UJ	0.0037 UJ	0.0042 UJ
Ethylbenzene	100-41-4	mg/kg	500	10.1	0.00071 UJ	0.00062 UJ	0.00061 UJ	0.00054 UJ	0.00061 UJ	0.00057 UJ	0.00064 UJ	0.00073 UJ	0.00058 UJ	0.00075 UJ	0.0006 UJ	0.00083 UJ	0.0026 UJ	0.00073 UJ	0.00084 UJ
Hexachlorobutadiene	87-68-3	mg/kg	130	0.2	0.0036 UJ	0.0031 UJ	0.003 UJ	0.0027 UJ	0.003 UJ	0.0028 UJ	0.0032 UJ	0.0037 UJ	0.0029 UJ	0.0037 UJ	0.003 UJ	0.0041 UJ	0.013 UJ	0.0037 UJ	0.0042 UJ
Isopropylbenzene	98-82-8	mg/kg	500	0.5	0.0014 U	**0.0018**	0.0012 U	0.0011 U	0.0012 U	0.0011 U	0.0013 U	0.0015 U	0.0012 U	0.0015 U	0.0012 U	0.0017 U	0.0052 U	0.0015 U	0.0017 U
m,p-Xylene	179601-23-1	mg/kg	500	--	0.00071 UJ	0.00062 UJ	0.00061 UJ	0.00054 UJ	0.00061 UJ	0.00057 UJ	0.00064 UJ	0.00073 UJ	0.00058 UJ	0.00075 UJ	0.0006 UJ	0.00083 UJ	0.0026 UJ	0.00073 UJ	0.00084 UJ
Methyl tert-butyl ether	1634-04-4	mg/kg	1000	2	0.00071 U	0.00062 U	0.00061 U	0.00054 U	0.00061 U	0.00057 U	0.00064 U	0.00073 U	0.00058 U	0.00075 U	0.0006 U	0.00083 U	0.0026 U	0.00073 U	0.00084 U
Methylene chloride	75-09-2	mg/kg	82	0.1	0.0036 U	0.0031 U	0.003 U	0.0027 U	0.003 U	0.0028 U	0.0032 U	0.0037 U	0.0029 U	0.0037 U	0.003 U	0.0041 U	0.013 U	0.0037 U	0.0042 U
Naphthalene	91-20-3	mg/kg	1000	5.6	0.0036 UJ	0.0031 UJ	0.003 UJ	0.0027 UJ	0.003 UJ	0.0028 UJ	0.0032 UJ	0.0037 UJ	0.0029 UJ	0.0037 UJ	0.003 UJ	0.0041 UJ	0.013 UJ	0.0037 UJ	0.0042 UJ
n-Butylbenzene	104-51-8	mg/kg	500	7	0.0014 UJ	0.0012 UJ	0.0012 UJ	0.0011 UJ	0.0012 UJ	0.0011 UJ	0.0013 UJ	0.0015 UJ	0.0012 UJ	0.0015 UJ	0.0012 UJ	0.0017 UJ	0.0052 UJ	0.0015 UJ	0.0017 UJ
n-Propylbenzene	103-65-1	mg/kg	500	1	0.0014 UJ	**0.0014 J**	0.0012 UJ	0.0011 UJ	0.0012 UJ	0.0011 UJ	0.0013 UJ	0.0015 UJ	0.0012 UJ	0.0015 UJ	0.0012 UJ	0.0017 UJ	0.0052 UJ	0.0015 UJ	0.0017 UJ
o-Xylene	95-47-6	mg/kg	--	--	0.00071 U	0.00062 U	0.00061 U	0.00054 U	0.00061 U	0.00057 U	0.00064 U	0.00073 U	0.00058 U	0.00075 U	0.0006 U	0.00083 U	0.0026 U	0.00073 U	0.00084 U
sec-Butylbenzene	135-98-8	mg/kg	500	7	0.0014 UJ	**0.0086 J**	0.0012 UJ	0.0011 UJ	0.0012 UJ	0.0011 UJ	0.0013 UJ	0.0015 UJ	0.0012 UJ	0.0015 UJ	0.0012 UJ	0.0017 UJ	0.0052 UJ	0.0015 UJ	0.0017 UJ
Styrene	100-42-5	mg/kg	500	2	0.0014 UJ	0.0012 UJ	0.0012 UJ	0.0011 UJ	0.0012 UJ	0.0011 UJ	0.0013 UJ	0.0015 UJ	0.0012 UJ	0.0015 UJ	0.0012 UJ	0.0017 UJ	0.0052 UJ	0.0015 UJ	0.0017 UJ
tert-Butylbenzene	98-06-6	mg/kg	500	7	0.0014 U	**0.0022**	0.0012 U	0.0011 U	0.0012 U	0.0011 U	0.0013 U	0.0015 U	0.0012 U	0.0015 U	0.0012 U	0.0017 U	0.0052 U	0.0015 U	0.0017 U
Tetrachloroethene	127-18-4	mg/kg	12	0.1	0.0014 UJ	0.0012 UJ	0.0012 UJ	0.0011 UJ	0.0012 UJ	0.0011 UJ	0.0013 UJ	0.0015 UJ	0.0012 UJ	0.0015 UJ	0.0012 UJ	0.0017 UJ	0.0052 UJ	0.0015 UJ	0.0017 UJ
Tetrahydrofuran	109-99-9	mg/kg	61	0.08	0.0071 U	0.0062 U	0.0061 U	0.0054 U	0.0061 U	0.0057 U	0.0064 U	0.0073 U	0.0058 U	0.0075 U	0.006 U	0.0083 U	0.026 U	0.0073 U	0.0084 U
Toluene	108-88-3	mg/kg	500	20	0.00071 U	0.00062 U	0.00061 U	0.00054 U	0.00061 U	0.00057 U	0.00064 U	0.00073 U	0.00058 U	0.00075 U	0.0006 U	0.00083 U	0.0026 U	0.00073 U	0.00084 U
trans-1,2-Dichloroethene	156-60-5	mg/kg	500	2	0.00071 UJ	0.00062 UJ	0.00061 UJ	0.00054 UJ	0.00061 UJ	0.00057 UJ	0.00064 UJ	0.00073 UJ	0.00058 UJ	0.00075 UJ	0.0006 UJ	0.00083 UJ	0.0026 UJ	0.00073 UJ	0.00084 UJ
trans-1,3-Dichloropropene	10061-02-6	mg/kg	--	--	0.0014 UJ	0.0012 UJ	0.0012 UJ	0.0011 UJ	0.0012 UJ	0.0011 UJ	0.0013 UJ	0.0015 UJ	0.0012 UJ	0.0015 UJ	0.0012 UJ	0.0017 UJ	0.0052 UJ	0.0015 UJ	0.0017 UJ
trans-1,4-Dichlorobutene	110-57-6	mg/kg	--	--	0.0036 UJ	0.0031 UJ	0.003 UJ	0.0027 UJ	0.003 UJ	0.0028 UJ	0.0032 UJ	0.0037 UJ	0.0029 UJ	0.0037 UJ	0.003 UJ	0.0041 UJ	0.013 UJ	0.0037 UJ	0.0042 UJ
Trichloroethene	79-01-6	mg/kg	56	0.1	0.00071 U	0.00062 U	0.00061 U	0.00054 U	0.00061 U	0.00057 U	0.00064 U	0.00073 U	0.00058 U	0.00075 U	0.0006 U	0.00083 U	0.0026 U	0.00073 U	0.00084 U
Trichlorofluoromethane	75-69-4	mg/kg	500	20	0.0036 U	0.0031 U	0.003 U	0.0027 U	0.003 U	0.0028 U	0.0032 U	0.0037 U	0.0029 U	0.0037 U	0.003 U	0.0041 U	0.013 U	0.0037 U	0.0042 U
Vinyl chloride	75-01-4	mg/kg	0.32	0.04	0.0014 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U	0.0011 U	0.0013 U	0.0015 U	0.0012 U	0.0015 U	0.0012 U	0.0017 U	0.0052 U	0.0015 U	0.0017 U

Shading indicates that the concentration exceeds the specified criteria (at a minimum)

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

Table 4-1
TBA Soil Sample Analytical Results
43 Hempstead Street TBA
New London, Connecticut

Location					MW-5		MW-6		MW-1R	
Depth Interval					0 - 2 ft	8 - 10 ft	0 - 2 ft	3 - 5 ft	0 - 2 ft	4 - 6 ft
Sample Date					08/09/2021	08/09/2021	08/09/2021	08/09/2021	08/10/2021	08/10/2021
Sample Type					N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	CT Residential DEC	CT GB-PMC	MW-5-0002	MW-05-0810	MW-6-0002	MW-6-0305	MW-1R-0002	MW-1R-0406
Volatiles										
1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	24	0.02	0.0011 U	0.001 U	0.0016 U	0.0023 U	0.0012 U	0.0018 U
1,1,1-Trichloroethane	71-55-6	mg/kg	500	4	0.0011 U	0.001 U	0.0016 U	0.0023 U	0.0012 U	0.0018 U
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	3.1	0.01	0.0011 U	0.001 U	0.0016 U	0.0023 U	0.0012 U	0.0018 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	mg/kg	500	20	0.0028 U	0.0025 U	0.004 U	0.0058 U	0.0031 U	0.0046 U
1,1,2-Trichloroethane	79-00-5	mg/kg	11	0.1	0.0011 U	0.001 U	0.0016 U	0.0023 U	0.0012 U	0.0018 U
1,1-Dichloroethane	75-34-3	mg/kg	500	1.4	0.00055 U	0.0005 U	0.0008 U	0.0012 U	0.00061 U	0.00092 U
1,1-Dichloroethene	75-35-4	mg/kg	1	0.14	0.00055 U	0.0005 U	0.0008 U	0.0012 U	0.00061 U	0.00092 U
1,1-Dichloropropene	563-58-6	mg/kg	--	--	0.0011 U	0.001 U	0.0016 U	0.0023 U	0.0012 U	0.0018 U
1,2,3-Trichlorobenzene	87-61-6	mg/kg	--	--	0.0028 UJ	0.0025 UJ	0.004 UJ	0.0058 UJ	0.0031 UJ	0.0046 UJ
1,2,3-Trichloropropane	96-18-4	mg/kg	--	--	0.0028 U	0.0025 U	0.004 U	0.0058 U	0.0031 U	0.0046 U
1,2,4-Trichlorobenzene	120-82-1	mg/kg	21	1.4	0.0028 UJ	0.0025 UJ	0.004 UJ	0.0058 UJ	0.0031 UJ	0.0046 UJ
1,2,4-Trimethylbenzene	95-63-6	mg/kg	500	2.8	0.0011 U	0.001 U	0.0016 U	0.0023 U	0.0012 U	0.0018 U
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0.09	0.005	0.0011 U	0.001 U	0.0016 U	0.0023 U	0.0012 U	0.0018 U
1,2-Dibromoethane	106-93-4	mg/kg	0.007	0.01	0.00055 U	0.0005 U	0.0008 U	0.0012 U	0.00061 U	0.00092 U
1,2-Dichlorobenzene	95-50-1	mg/kg	500	3.1	0.00055 UJ	0.0005 UJ	0.0008 UJ	0.0012 UJ	0.00061 UJ	0.00092 UJ
1,2-Dichloroethane	107-06-2	mg/kg	6.7	0.02	0.00055 U	0.0005 U	0.0008 U	0.0012 U	0.00061 U	0.00092 U
1,2-Dichloropropane	78-87-5	mg/kg	9	0.1	0.0011 U	0.001 U	0.0016 U	0.0023 U	0.0012 U	0.0018 U
1,3,5-Trimethylbenzene	108-67-8	mg/kg	500	2.8	0.0011 U	0.001 U	0.0016 U	0.0023 U	0.0012 U	0.0018 U
1,3-Dichlorobenzene	541-73-1	mg/kg	500	12	0.00055 UJ	0.0005 UJ	0.0008 UJ	0.0012 UJ	0.00061 UJ	0.00092 UJ
1,3-Dichloropropane	142-28-9	mg/kg	--	--	0.0011 U	0.001 U	0.0016 U	0.0023 U	0.0012 U	0.0018 U
1,4-Dichlorobenzene	106-46-7	mg/kg	26	1.5	0.00055 UJ	0.0005 UJ	0.0008 UJ	0.0012 UJ	0.00061 UJ	0.00092 UJ
2,2-Dichloropropane	594-20-7	mg/kg	--	--	0.0011 U	0.001 U	0.0016 U	0.0023 U	0.0012 U	0.0018 U
2-Butanone	78-93-3	mg/kg	500	8	0.0055 U	0.005 U	0.008 U	0.012 U	0.0061 U	0.0092 U
2-Chlorotoluene	95-49-8	mg/kg	500	2.8	0.0011 UJ	0.001 UJ	0.0016 UJ	0.0023 UJ	0.0012 UJ	0.0018 UJ
2-Hexanone	591-78-6	mg/kg	340	0.7	0.0028 U	0.0025 U	0.004 U	0.0058 U	0.0031 U	0.0046 U
4-Chlorotoluene	106-43-4	mg/kg	500	2.8	0.0011 UJ	0.001 UJ	0.0016 UJ	0.0023 UJ	0.0012 UJ	0.0018 UJ
4-Isopropyltoluene	99-87-6	mg/kg	500	0.5	0.0011 UJ	0.001 UJ	0.0016 UJ	0.0023 UJ	0.0012 UJ	0.0018 UJ
4-Methyl-2-pentanone	108-10-1	mg/kg	500	7	0.0028 U	0.0025 U	0.004 U	0.0058 U	0.0031 U	0.0046 U
Acetone	67-64-1	mg/kg	500	14	0.0055 U	**0.0128**	0.008 U	**0.0156**	0.0061 U	0.0092 U
Acrylonitrile	107-13-1	mg/kg	1.1	0.01	0.0055 U	0.005 U	0.008 U	0.012 U	0.0061 U	0.0092 U
Benzene	71-43-2	mg/kg	21	0.02	0.00028 U	0.00025 U	0.0004 U	0.00058 U	0.00031 U	0.00046 U
Bromobenzene	108-86-1	mg/kg	--	--	0.0028 UJ	0.0025 UJ	0.004 UJ	0.0058 UJ	0.0031 UJ	0.0046 UJ
Bromodichloromethane	75-27-4	mg/kg	18	0.02	0.0011 U	0.001 U	0.0016 U	0.0023 U	0.0012 U	0.0018 U
Bromoform	75-25-2	mg/kg	78	0.08	0.0028 U	0.0025 U	0.004 U	0.0058 U	0.0031 U	0.0046 U
Bromomethane	74-83-9	mg/kg	34	0.07	0.0028 U	0.0025 U	0.004 U	0.0058 U	0.0031 U	0.0046 U
Carbon disulfide	75-15-0	mg/kg	500	0.8	0.0011 UJ	0.001 UJ	0.0016 UJ	0.0023 UJ	0.0012 UJ	0.0018 UJ
Carbon tetrachloride	56-23-5	mg/kg	4.7	0.1	0.0011 U	0.001 U	0.0016 U	0.0023 U	0.0012 U	0.0018 U
Chlorobenzene	108-90-7	mg/kg	500	2	0.0011 UJ	0.001 UJ	0.0016 UJ	0.0023 UJ	0.0012 UJ	0.0018 UJ
Chloroethane	75-00-3	mg/kg	130	0.15	0.0028 U	0.0025 U	0.004 U	0.0058 U	0.0031 U	0.0046 U
Chloroform	67-66-3	mg/kg	100	0.12	0.0011 U	0.001 U	0.0016 U	0.0023 U	0.0012 U	0.0018 U
Chloromethane	74-87-3	mg/kg	180	0.36	0.0028 U	0.0025 U	0.004 U	0.0058 U	0.0031 U	0.0046 U
cis-1,2-Dichloroethene	156-59-2	mg/kg	500	1.4	0.00055 U	0.0005 U	0.0008 U	0.0012 U	0.00061 U	0.00092 U
cis-1,3-Dichloropropene	10061-01-5	mg/kg	--	--	0.0011 U	0.001 U	0.0016 U	0.0023 U	0.0012 U	0.0018 U
Dibromochloromethane	124-48-1	mg/kg	7.3	0.01	0.0011 U	0.001 U	0.0016 U	0.0023 U	0.0012 U	0.0018 U
Dibromomethane	74-95-3	mg/kg	--	--	0.0028 U	0.0025 U	0.004 U	0.0058 U	0.0031 U	0.0046 U
Dichlorodifluoromethane	75-71-8	mg/kg	500	7	0.0028 UJ	0.0025 UJ	0.004 UJ	0.0058 UJ	0.0031 UJ	0.0046 UJ
Ethylbenzene	100-41-4	mg/kg	500	10.1	0.00055 UJ	0.0005 UJ	0.0008 UJ	0.0012 UJ	0.00061 UJ	0.00092 UJ
Hexachlorobutadiene	87-68-3	mg/kg	130	0.2	0.0028 UJ	0.0025 UJ	0.004 UJ	0.0058 UJ	0.0031 UJ	0.0046 UJ
Isopropylbenzene	98-82-8	mg/kg	500	0.5	0.0011 U	0.001 U	0.0016 U	0.0023 U	0.0012 U	0.0018 U
m,p-Xylene	179601-23-1	mg/kg	500	--	0.00055 UJ	0.0005 UJ	0.0008 UJ	0.0012 UJ	0.00061 UJ	0.00092 UJ
Methyl tert-butyl ether	1634-04-4	mg/kg	1000	2	0.00055 U	0.0005 U	0.0008 U	0.0012 U	0.00061 U	0.00092 U
Methylene chloride	75-09-2	mg/kg	82	0.1	0.0028 U	0.0025 U	0.004 U	0.0058 U	0.0031 U	0.0046 U
Naphthalene	91-20-3	mg/kg	1000	5.6	0.0028 UJ	0.0025 UJ	0.004 UJ	0.0058 UJ	0.0031 UJ	0.0046 UJ
n-Butylbenzene	104-51-8	mg/kg	500	7	0.0011 UJ	0.001 UJ	0.0016 UJ	0.0023 UJ	0.0012 UJ	0.0018 UJ
n-Propylbenzene	103-65-1	mg/kg	500	1	0.0011 UJ	0.001 UJ	0.0016 UJ	0.0023 UJ	0.0012 UJ	0.0018 UJ
o-Xylene	95-47-6	mg/kg	--	--	0.00055 U	0.0005 U	0.0008 U	0.0012 U	0.00061 U	0.00092 U
sec-Butylbenzene	135-98-8	mg/kg	500	7	0.0011 UJ	0.001 UJ	0.0016 UJ	0.0023 UJ	0.0012 UJ	0.0018 UJ
Styrene	100-42-5	mg/kg	500	2	0.0011 UJ	0.001 UJ	0.0016 UJ	0.0023 UJ	0.0012 UJ	0.0018 UJ
tert-Butylbenzene	98-06-6	mg/kg	500	7	0.0011 U	0.001 U	0.0016 U	0.0023 U	0.0012 U	0.0018 U
Tetrachloroethene	127-18-4	mg/kg	12	0.1	0.0011 UJ	0.001 UJ	0.0016 UJ	0.0023 UJ	0.0012 UJ	0.0018 UJ
Tetrahydrofuran	109-99-9	mg/kg	61	0.08	0.0055 U	0.005 U	0.008 U	0.012 U	0.0061 U	0.0092 U
Toluene	108-88-3	mg/kg	500	20	0.00055 U	0.0005 U	0.0008 U	0.0012 U	0.00061 U	0.00092 U
trans-1,2-Dichloroethene	156-60-5	mg/kg	500	2	0.00055 UJ	0.0005 UJ	0.0008 UJ	0.0012 UJ	0.00061 UJ	0.00092 UJ
trans-1,3-Dichloropropene	10061-02-6	mg/kg	--	--	0.0011 UJ	0.001 UJ	0.0016 UJ	0.0023 UJ	0.0012 UJ	0.0018 UJ
trans-1,4-Dichlorobutene	110-57-6	mg/kg	--	--	0.0028 UJ	0.0025 UJ	0.004 UJ	0.0058 UJ	0.0031 UJ	0.0046 UJ
Trichloroethene	79-01-6	mg/kg	56	0.1	0.00055 U	0.0005 U	0.0008 U	0.0012 U	0.00061 U	0.00092 U
Trichlorofluoromethane	75-69-4	mg/kg	500	20	0.0028 U	0.0025 U	0.004 U	0.0058 U	0.0031 U	0.0046 U
Vinyl chloride	75-01-4	mg/kg	0.32	0.04	0.0011 U	0.001 U	0.0016 U	0.0023 U	0.0012 U	0.0018 U

Shading indicates that the concentration exceeds the specified criteria (at a minimum)

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

Table 4-1
TBA Soil Sample Analytical Results
43 Hempstead Street TBA
New London, Connecticut

Location					B-2		B-3		B-7		B-8			B-9		B-10		MW-4	
Depth Interval					0 - 2 ft	5 - 7 ft	0 - 2 ft	3 - 5 ft	0 - 2 ft	5 - 7 ft	0 - 2 ft		5 - 7 ft	0 - 2 ft	3 - 5 ft	0 - 2 ft	2 - 4 ft	0 - 2 ft	2 - 4 ft
Sample Date					08/10/2021	08/10/2021	08/10/2021	08/10/2021	08/09/2021	08/09/2021	08/09/2021		08/09/2021	08/09/2021	08/09/2021	08/09/2021	08/09/2021	08/10/2021	08/10/2021
Sample Type					N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	CT Residential DEC	CT GB-PMC	B-2-0002	B-2-0507	B-3-0002	B-3-0305	B-7-0002	B-7-0507	B-8-0002	FD-01-20210809	B-8-0507	B-9-0002	B-9-0305	B-10-0002	B-10-0204	MW-4-0002	MW-4-0204
Semivolatiles																			
2-Methylnaphthalene	91-57-6	mg/kg	270	0.56	**0.0354**	0.0039 U	**0.0571**	**0.0262**	**0.0136**	0.0042 U	**0.0141**	**0.0295**	0.004 U	0.0038 U	0.0035 U	**0.0733**	**0.009**	**0.0989**	**0.00562**
Acenaphthene	83-32-9	mg/kg	1000	8.4	**0.00881 J**	0.0039 UJ	**0.13 J**	**0.0402 J**	**0.00497 J**	0.0042 UJ	**0.0259 J**	**0.0459 J**	0.004 UJ	0.0038 UJ	0.0035 UJ	0.02 UJ	0.0036 UJ	**0.161 J**	0.0045 UJ
Acenaphthylene	208-96-8	mg/kg	--	8.4	**0.0533 J**	0.0039 UJ	**0.568 J**	**0.223 J**	**0.0354 J**	0.0042 UJ	**0.0597 J**	**0.0953 J**	0.004 UJ	**0.00537 J**	0.0035 UJ	**0.192 J**	**0.00868 J**	**0.556 J**	**0.00687 J**
Anthracene	120-12-7	mg/kg	1000	40	**0.0703 J**	0.0039 UJ	**0.956 J**	**0.535 J**	**0.0338 J**	0.0042 UJ	**0.106 J**	**0.184 J**	0.004 UJ	**0.00619 J**	0.0035 UJ	**0.101 J**	**0.00539 J**	**1.12 J**	**0.0126 J**
Benzo(a)anthracene	56-55-3	mg/kg	1	1	**0.153 J**	0.0039 UJ	**4.04 J**	**2.04 J**	**0.149 J**	0.0042 UJ	**0.444 J**	**1.05 J**	0.004 UJ	**0.0334 J**	0.0035 UJ	**0.436 J**	**0.0365 J**	**2.72 J**	**0.0362 J**
Benzo(a)pyrene	50-32-8	mg/kg	1	1	**0.1 J**	0.0039 UJ	**3.38 J**	**1.78 J**	**0.154 J**	0.0042 UJ	**0.428 J**	**0.969 J**	0.004 UJ	**0.039 J**	**0.127 J**	**0.608 J**	**0.069 J**	**2.13 J**	**0.0311 J**
Benzo(b)fluoranthene	205-99-2	mg/kg	1	1	**0.194 J**	0.0039 UJ	**5.11 J**	**2.89 J**	**0.265 J**	0.0042 UJ	**0.593 J**	**1.33 J**	0.004 UJ	**0.0594 J**	**0.0272 J**	**0.932 J**	**0.109 J**	**3 J**	**0.0625 J**
Benzo(g,h,i)perylene	191-24-2	mg/kg	8.4	1	**0.0677 J**	0.0039 UJ	**2.09 J**	**1.37 J**	**0.122 J**	0.0042 UJ	**0.314 J**	**0.661 J**	0.004 UJ	**0.0353 J**	**0.0785 J**	**0.786 J**	**0.124 J**	**1.19 J**	**0.0287 J**
Benzo(k)fluoranthene	207-08-9	mg/kg	8.4	1	**0.0636 J**	0.0039 UJ	**1.64 J**	**0.982 J**	**0.0767 J**	0.0042 UJ	**0.152 J**	**0.509 J**	0.004 UJ	**0.0219 J**	0.0035 UJ	**0.326 J**	**0.0392 J**	**1 J**	**0.0195 J**
Chrysene	218-01-9	mg/kg	84	1	**0.162 J**	0.0039 UJ	**4.21 J**	**2.14 J**	**0.173 J**	0.0042 UJ	**0.418 J**	**0.957 J**	0.004 UJ	**0.0378 J**	**0.0554 J**	**0.563 J**	**0.0561 J**	**2.41 J**	**0.0379 J**
Dibenz(a,h)anthracene	53-70-3	mg/kg	1	1	**0.0242 J**	0.0039 UJ	**0.663 J**	**0.324 J**	**0.0351 J**	0.0042 UJ	**0.0725 J**	**0.147 J**	0.004 UJ	**0.00849 J**	**0.0103 J**	**0.179 J**	**0.0231 J**	**0.349 J**	**0.00889 J**
Fluoranthene	206-44-0	mg/kg	1000	5.6	**0.322 J**	0.0039 UJ	**8.67 J**	**3.85 J**	**0.262 J**	0.0042 UJ	**0.788 J**	**1.72 J**	0.004 UJ	**0.0499 J**	**0.00419 J**	**0.707 J**	**0.0458 J**	**4.98 J**	**0.0551 J**
Fluorene	86-73-7	mg/kg	1000	5.6	**0.0186**	0.0039 U	**0.279**	**0.125**	**0.00831**	0.0042 U	**0.0272**	**0.0436**	0.004 U	0.0038 U	0.0035 U	**0.0303**	0.0036 U	**0.447 J+**	0.0045 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	1	1	**0.0744 J**	0.0039 UJ	**2.37 J**	**1.37 J**	**0.123 J**	0.0042 UJ	**0.298 J**	**0.656 J**	0.004 UJ	**0.0334 J**	**0.015 J**	**0.686 J**	**0.103 J**	**1.28 J**	**0.0264 J**
Naphthalene	91-20-3	mg/kg	1000	5.6	**0.0989 J**	**0.00681 J**	**0.191 J**	**0.0964 J**	**0.018 J**	0.0042 UJ	**0.0422 J**	**0.139 J**	0.004 UJ	0.0038 UJ	**0.00632 J**	**0.0481 J**	**0.00633 J**	**0.172 J**	**0.0129 J**
Phenanthrene	85-01-8	mg/kg	1000	4	**0.32**	0.0039 U	**5.05**	**2.38**	**0.142**	0.0042 U	**0.475**	**0.765 J+**	0.004 U	**0.027**	**0.0234**	**0.474**	**0.0394**	**4.41 J+**	**0.045**
Pyrene	129-00-0	mg/kg	1000	4	**0.275 J**	0.0039 UJ	**7.78 J**	**4.06 J**	**0.258 J**	0.0042 UJ	**0.799 J**	**1.72 J**	0.004 UJ	**0.0517 J**	**0.0231 J**	**0.713 J**	**0.0483 J**	**4.76 J**	**0.0447 J**
SPLP Semivolatiles																			
2-Methylnaphthalene	91-57-6	mg/L	--	--	NA	NA	R	R	NA	NA	NA	**0.000423 J-**	NA	NA	NA	NA	NA	**0.00041 J-**	NA
Acenaphthene	83-32-9	mg/L	--	--	NA	NA	R	R	NA	NA	NA	**0.000442 J-**	NA	NA	NA	NA	NA	**0.00175 J-**	NA
Acenaphthylene	208-96-8	mg/L	--	--	NA	NA	R	R	NA	NA	NA	**0.000132 J-**	NA	NA	NA	NA	NA	**0.00184 J-**	NA
Anthracene	120-12-7	mg/L	--	--	NA	NA	R	R	NA	NA	NA	R	NA	NA	NA	NA	NA	**0.000878 J-**	NA
Benzo(a)anthracene	56-55-3	mg/L	--	--	NA	NA	R	R	NA	NA	NA	R	NA	NA	NA	NA	NA	**0.0000735 J-**	NA
Benzo(a)pyrene	50-32-8	mg/L	--	--	NA	NA	R	R	NA	NA	NA	R	NA	NA	NA	NA	NA	R	NA
Benzo(b)fluoranthene	205-99-2	mg/L	--	--	NA	NA	R	R	NA	NA	NA	R	NA	NA	NA	NA	NA	R	NA
Benzo(g,h,i)perylene	191-24-2	mg/L	--	--	NA	NA	R	R	NA	NA	NA	R	NA	NA	NA	NA	NA	R	NA
Benzo(k)fluoranthene	207-08-9	mg/L	--	--	NA	NA	R	R	NA	NA	NA	R	NA	NA	NA	NA	NA	R	NA
Chrysene	218-01-9	mg/L	--	--	NA	NA	R	R	NA	NA	NA	R	NA	NA	NA	NA	NA	R	NA
Dibenz(a,h)anthracene	53-70-3	mg/L	--	--	NA	NA	R	R	NA	NA	NA	R	NA	NA	NA	NA	NA	R	NA
Fluoranthene	206-44-0	mg/L	--	--	NA	NA	R	R	NA	NA	NA	R	NA	NA	NA	NA	NA	**0.00097 J-**	NA
Fluorene	86-73-7	mg/L	--	--	NA	NA	R	R	NA	NA	NA	**0.000325 J-**	NA	NA	NA	NA	NA	**0.00251 J-**	NA
Indeno(1,2,3-cd)pyrene	193-39-5	mg/L	--	--	NA	NA	R	R	NA	NA	NA	R	NA	NA	NA	NA	NA	R	NA
Naphthalene	91-20-3	mg/L	--	--	NA	NA	R	R	NA	NA	NA	**0.000247 J-**	NA	NA	NA	NA	NA	**0.000431 J-**	NA
Phenanthrene	85-01-8	mg/L	--	--	NA	NA	**0.0000721 J-**	**0.000247 J-**	NA	NA	NA	**0.000461 J-**	NA	NA	NA	NA	NA	**0.0041 J-**	NA
Pyrene	129-00-0	mg/L	--	--	NA	NA	R	R	NA	NA	NA	R	NA	NA	NA	NA	NA	**0.000719 J-**	NA
Petroleum Hydrocarbons																			
Diesel Range Organics (C9-C36)	C9-C36	mg/kg	500	500	**204**	**18.1**	**640**	**430**	**91.2 J-**	8.2 U	**177**	**178**	**29.2 J-**	**38.1**	**59**	**197**	**12.4**	**111**	**21.4**
SPLP Petroleum Hydrocarbons																			
Diesel Range Organics (C9-C36)	C9-C36	mg/L	--	--	R	NA	R	R	NA	NA	**0.137 J-**	NA	NA	NA	NA	R	NA	NA	NA
Pesticides/PCBs																			
4,4'-DDD	72-54-8	mg/kg	1.8	0.003	**0.0039 J**	0.0008 UJ	0.00068 UJ	**0.0071 J**	0.00074 UJ	0.00082 UJ	**0.0116 J**	**0.0047 J**	0.00082 UJ	0.00073 UJ	0.00067 UJ	0.00074 UJ	0.0007 UJ	0.00072 UJ	0.0009 UJ
4,4'-DDE	72-55-9	mg/kg	1.8	0.003	0.00074 UJ	0.0008 UJ	0.00068 UJ	0.00073 UJ	0.00074 UJ	0.00082 UJ	**0.0356 J**	**0.0134 J**	0.00082 UJ	0.00073 UJ	0.00067 UJ	0.00074 UJ	0.0007 UJ	0.00072 UJ	0.0009 UJ
4,4'-DDT	50-29-3	mg/kg	1.8	0.003	**0.0052 J**	0.0008 UJ	0.00068 UJ	0.00073 UJ	0.00074 UJ	0.00082 UJ	**0.208 J**	**0.0609 J**	0.00082 UJ	**0.0082 J**	0.00067 UJ	0.00074 UJ	0.0007 UJ	0.00072 UJ	0.0009 UJ
Alachlor	15972-60-8	mg/kg	7.7	0.23	0.0074 U	0.008 U	0.0068 U	0.0073 U	0.0074 U	0.0082 U	0.008 U	0.0079 U	0.0082 U	0.0073 U	0.0067 U	0.0074 U	0.007 U	0.0072 U	0.009 U
Aldrin	309-00-2	mg/kg	0.04	0.002	0.00074 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U	0.00082 U	0.0008 U	0.00079 U	0.00082 U	0.00073 U	0.00067 U	0.00074 U	0.0007 U	0.00072 U	0.0009 U
alpha-BHC	319-84-6	mg/kg	0.34	0.002	0.00074 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U	0.00082 U	0.0008 U	0.00079 U	0.00082 U	0.00073 U	0.00067 U	0.00074 U	0.0007 U	0.00072 U	0.0009 U
Aroclor 1016	12674-11-2	mg/kg	--	--	0.058 U	0.057 U	0.055 U	0.057 U	0.055 U	0.054 U	0.06 U	0.06 U	0.057 U	0.057 U	0.049 U	0.056 U	0.055 U	0.054 U	0.069 U
Aroclor 1221	11104-28-2	mg/kg	--	--	0.058 U	0.057 U	0.055 U	0.057 U	0.055 U	0.054 U	0.06 U	0.06 U	0.057 U	0.057 U	0.049 U	0.056 U	0.055 U	0.054 U	0.069 U
Aroclor 1232	11141-16-5	mg/kg	--	--	0.058 U	0.057 U	0.055 U	0.057 U	0.055 U	0.054 U	0.06 U	0.06 U	0.057 U	0.057 U	0.049 U	0.056 U	0.055 U	0.054 U	0.069 U
Aroclor 1242	53469-21-9	mg/kg	--	--	0.058 U	0.057 U	0.055 U	0.057 U	0.055 U	0.054 U	0.06 U	0.06 U	0.057 U	0.057 U	0.049 U	0.056 U	0.055 U	0.054 U	0.069 U
Aroclor 1248	12672-29-6	mg/kg	--	--	0.058 U	0.057 U	0.055 U	0.057 U	0.055 U	0.054 U	0.06 U	0.06 U	0.057 U	0.057 U	0.049 U	0.056 U	0.055 U	0.054 U	0.069 U
Aroclor 1254	11097-69-1	mg/kg	--	--	0.058 U	0.057 U	0.055 U	0.057 U	**0.335**	0.054 U	**0.233**	**0.413**	0.057 U	0.057 U	0.049 U	**3.84 J+**	0.055 U	0.054 U	0.069 U
Aroclor 1260	11096-82-5	mg/kg	--	--	0.058 U	0.057 U	0.055 U	0.057 U	0.055 U	0.054 U	0.06 U	0.06 U	0.057 U	0.057 U	0.049 U	0.056 U	0.055 U	0.054 U	0.069 U
Aroclor 1262	37324-23-5	mg/kg	--	--	0.058 U	0.057 U	0.055 U	0.057 U	0.055 U	0.054 U	0.06 U	0.06 U	0.057 U	0.057 U	0.049 U	0.056 U	0.055 U	0.054 U	0.069 U
Aroclor 1268	11100-14-4	mg/kg	--	--	0.058 U	0.057 U	0.055 U	0.057 U	0.055 U	0.054 U	0.06 U	0.06 U	0.057 U	0.057 U	0.049 U	0.056 U	0.055 U	0.054 U	0.069 U
Aroclor, Total	AROCLORTOT	mg/kg	1	--	0.058 U	0.057 U	0.055 U	0.057 U	**0.335**	0.054 U	**0.233**	**0.413**	0.057 U	0.057 U	0.049 U	**3.84 J+**	0.055 U	0.054 U	0.069 U

Shading indicates that the concentration exceeds the specified criteria (at a minimum)

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

Table 4-1
TBA Soil Sample Analytical Results
43 Hempstead Street TBA
New London, Connecticut

Location					MW-5		MW-6		MW-1R	
Depth Interval					**0 - 2 ft**	**8 - 10 ft**	**0 - 2 ft**	**3 - 5 ft**	**0 - 2 ft**	**4 - 6 ft**
Sample Date					**08/09/2021**	**08/09/2021**	**08/09/2021**	**08/09/2021**	**08/10/2021**	**08/10/2021**
Sample Type					**N**	**N**	**N**	**N**	**N**	**N**
Chemical/Sample ID	**CAS Number**	**Units**	**CT Residential DEC**	**CT GB-PMC**	**MW-5-0002**	**MW-05-0810**	**MW-6-0002**	**MW-6-0305**	**MW-1R-0002**	**MW-1R-0406**
Semivolatiles										
2-Methylnaphthalene	91-57-6	mg/kg	270	0.56	0.0035 U	0.0038 U	**0.585**	**0.51**	**0.115**	**0.047**
Acenaphthene	83-32-9	mg/kg	1000	8.4	0.0035 UJ	0.0038 UJ	0.0073 UJ	**0.247 J**	**0.252 J**	**0.0179 J**
Acenaphthylene	208-96-8	mg/kg	--	8.4	0.0035 UJ	0.0038 UJ	**0.0541 J**	**0.394 J**	**0.629 J**	**0.066 J**
Anthracene	120-12-7	mg/kg	1000	40	0.0035 UJ	0.0038 UJ	**0.0448 J**	**1.04 J**	**1.35 J**	**0.0904 J**
Benzo(a)anthracene	56-55-3	mg/kg	1	1	0.0035 UJ	0.0038 UJ	**0.0895 J**	**1.45 J**	**3.15 J**	**0.338 J**
Benzo(a)pyrene	50-32-8	mg/kg	1	1	**0.00352 J**	0.0038 UJ	**0.0732 J**	**0.984 J**	**2.42 J**	**0.249 J**
Benzo(b)fluoranthene	205-99-2	mg/kg	1	1	**0.00642 J**	0.0038 UJ	**0.172 J**	**1.37 J**	**2.98 J**	**0.472 J**
Benzo(g,h,i)perylene	191-24-2	mg/kg	8.4	1	0.0035 UJ	0.0038 UJ	**0.146 J**	**0.539 J**	**1.58 J**	**0.18 J**
Benzo(k)fluoranthene	207-08-9	mg/kg	8.4	1	0.0035 UJ	0.0038 UJ	**0.0445 J**	**0.448 J**	**1.46 J**	**0.135 J**
Chrysene	218-01-9	mg/kg	84	1	**0.00457 J**	0.0038 UJ	**0.206 J**	**1.24 J**	**2.92 J**	**0.359 J**
Dibenz(a,h)anthracene	53-70-3	mg/kg	1	1	0.0035 UJ	0.0038 UJ	**0.0233 J**	**0.151 J**	**0.441 J**	**0.057 J**
Fluoranthene	206-44-0	mg/kg	1000	5.6	**0.00764 J**	0.0038 UJ	**0.175 J**	**3.28 J**	**5.57 J**	**0.662 J**
Fluorene	86-73-7	mg/kg	1000	5.6	0.0035 U	0.0038 U	**0.0338**	**0.609**	**0.347**	**0.0322**
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	1	1	0.0035 UJ	0.0038 UJ	**0.0842 J**	**0.581 J**	**1.56 J**	**0.165 J**
Naphthalene	91-20-3	mg/kg	1000	5.6	0.0035 UJ	0.0038 UJ	**0.328 J**	**1.49 J**	**0.164 J**	**0.0811 J**
Phenanthrene	85-01-8	mg/kg	1000	4	**0.0055**	0.0038 U	**0.286**	**4.46 J+**	**6.3**	**0.532**
Pyrene	129-00-0	mg/kg	1000	4	**0.007 J**	0.0038 UJ	**0.182 J**	**2.95 J**	**5.21 J**	**0.671 J**
SPLP Semivolatiles										
2-Methylnaphthalene	91-57-6	mg/L	--	--	NA	NA	NA	**0.000484 J-**	**0.00264 J-**	NA
Acenaphthene	83-32-9	mg/L	--	--	NA	NA	NA	**0.00143 J-**	**0.00134 J-**	NA
Acenaphthylene	208-96-8	mg/L	--	--	NA	NA	NA	**0.000916 J-**	**0.000497 J-**	NA
Anthracene	120-12-7	mg/L	--	--	NA	NA	NA	**0.000764 J-**	**0.000193 J-**	NA
Benzo(a)anthracene	56-55-3	mg/L	--	--	NA	NA	NA	**0.000241 J-**	R	NA
Benzo(a)pyrene	50-32-8	mg/L	--	--	NA	NA	NA	**0.000119 J-**	R	NA
Benzo(b)fluoranthene	205-99-2	mg/L	--	--	NA	NA	NA	**0.000189 J-**	R	NA
Benzo(g,h,i)perylene	191-24-2	mg/L	--	--	NA	NA	NA	R	R	NA
Benzo(k)fluoranthene	207-08-9	mg/L	--	--	NA	NA	NA	R	R	NA
Chrysene	218-01-9	mg/L	--	--	NA	NA	NA	**0.000215 J-**	R	NA
Dibenz(a,h)anthracene	53-70-3	mg/L	--	--	NA	NA	NA	R	R	NA
Fluoranthene	206-44-0	mg/L	--	--	NA	NA	NA	**0.00192 J-**	**0.000224 J-**	NA
Fluorene	86-73-7	mg/L	--	--	NA	NA	NA	**0.00152 J-**	**0.00163 J-**	NA
Indeno(1,2,3-cd)pyrene	193-39-5	mg/L	--	--	NA	NA	NA	R	R	NA
Naphthalene	91-20-3	mg/L	--	--	NA	NA	NA	**0.000337 J-**	**0.000604 J-**	NA
Phenanthrene	85-01-8	mg/L	--	--	NA	NA	NA	**0.00284 J-**	**0.0018 J-**	NA
Pyrene	129-00-0	mg/L	--	--	NA	NA	NA	**0.00163 J-**	**0.000176 J-**	NA
Petroleum Hydrocarbons										
Diesel Range Organics (C9-C36)	C9-C36	mg/kg	500	500	**16.7**	**15.5**	**214 J-**	**2020**	**158**	**64.6**
SPLP Petroleum Hydrocarbons										
Diesel Range Organics (C9-C36)	C9-C36	mg/L	--	--	NA	NA	NA	**0.098 J-**	NA	NA
Pesticides/PCBs										
4,4'-DDD	72-54-8	mg/kg	1.8	0.003	0.00067 UJ	0.00074 UJ	0.00068 UJ	**0.0751 J**	0.00066 UJ	**0.0089 J**
4,4'-DDE	72-55-9	mg/kg	1.8	0.003	0.00067 UJ	0.00074 UJ	**0.0082 J**	0.00077 UJ	0.00066 UJ	**0.0015 J**
4,4'-DDT	50-29-3	mg/kg	1.8	0.003	0.00067 UJ	0.00074 UJ	**0.0207 J**	0.00077 UJ	0.00066 UJ	**0.0081 J**
Alachlor	15972-60-8	mg/kg	7.7	0.23	0.0067 U	0.0074 U	0.0068 U	0.0077 U	0.0066 U	0.0072 U
Aldrin	309-00-2	mg/kg	0.04	0.002	0.00067 U	0.00074 U	0.00068 U	0.00077 U	0.00066 U	0.00072 U
alpha-BHC	319-84-6	mg/kg	0.34	0.002	0.00067 U	0.00074 U	0.00068 U	0.00077 U	0.00066 U	0.00072 U
Aroclor 1016	12674-11-2	mg/kg	--	--	0.048 U	0.049 U	0.054 U	0.055 U	0.053 U	0.056 U
Aroclor 1221	11104-28-2	mg/kg	--	--	0.048 U	0.049 U	0.054 U	0.055 U	0.053 U	0.056 U
Aroclor 1232	11141-16-5	mg/kg	--	--	0.048 U	0.049 U	0.054 U	0.055 U	0.053 U	0.056 U
Aroclor 1242	53469-21-9	mg/kg	--	--	0.048 U	0.049 U	0.054 U	0.055 U	0.053 U	0.056 U
Aroclor 1248	12672-29-6	mg/kg	--	--	0.048 U	0.049 U	0.054 U	0.055 U	0.053 U	0.056 U
Aroclor 1254	11097-69-1	mg/kg	--	--	0.048 U	0.049 U	0.054 U	0.055 U	0.053 U	0.056 U
Aroclor 1260	11096-82-5	mg/kg	--	--	0.048 U	0.049 U	0.054 U	0.055 U	0.053 U	0.056 U
Aroclor 1262	37324-23-5	mg/kg	--	--	0.048 U	0.049 U	0.054 U	0.055 U	0.053 U	0.056 U
Aroclor 1268	11100-14-4	mg/kg	--	--	0.048 U	0.049 U	0.054 U	0.055 U	0.053 U	0.056 U
Aroclor, Total	AROCLORTOT	mg/kg	1	--	0.048 U	0.049 U	0.054 U	0.055 U	0.053 U	0.056 U

Shading indicates that the concentration exceeds the specified criteria (at a minimum)

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

Table 4-1
TBA Soil Sample Analytical Results
43 Hempstead Street TBA
New London, Connecticut

Location					B-2		B-3		B-7		B-8			B-9		B-10		MW-4	
Depth Interval					0 - 2 ft	5 - 7 ft	0 - 2 ft	3 - 5 ft	0 - 2 ft	5 - 7 ft	0 - 2 ft		5 - 7 ft	0 - 2 ft	3 - 5 ft	0 - 2 ft	2 - 4 ft	0 - 2 ft	2 - 4 ft
Sample Date					08/10/2021	08/10/2021	08/10/2021	08/10/2021	08/09/2021	08/09/2021	08/09/2021		08/09/2021	08/09/2021	08/09/2021	08/09/2021	08/09/2021	08/10/2021	08/10/2021
Sample Type					N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N
Chemical/Sample ID	CAS Number	Units	CT Residential DEC	CT GB-PMC	B-2-0002	B-2-0507	B-3-0002	B-3-0305	B-7-0002	B-7-0507	B-8-0002	FD-01-20210809	B-8-0507	B-9-0002	B-9-0305	B-10-0002	B-10-0204	MW-4-0002	MW-4-0204
beta-BHC	319-85-7	mg/kg	0.34	0.002	0.00074 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U	0.00082 U	0.0008 U	0.00079 U	0.00082 U	0.00073 U	0.00067 U	0.00074 U	0.0007 U	0.00072 U	0.0009 U
Chlordane	57-74-9	mg/kg	0.49	0.066	0.037 U	0.04 U	0.034 U	0.037 U	0.037 U	0.041 U	0.04 U	0.04 U	0.041 U	0.037 U	0.034 U	0.037 U	0.035 U	0.036 U	0.045 U
delta-BHC	319-86-8	mg/kg	0.34	0.002	0.00074 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U	0.00082 U	0.0008 U	0.00079 U	0.00082 U	0.00073 U	0.00067 U	0.00074 U	0.0007 U	0.00072 U	0.0009 U
Dieldrin	60-57-1	mg/kg	0.038	0.007	0.00074 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U	0.00082 U	0.0008 U	0.00079 U	0.00082 U	0.00073 U	0.00067 U	0.00074 U	0.0007 U	0.00072 U	0.0009 U
Endosulfan I	959-98-8	mg/kg	41	0.084	0.00074 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U	0.00082 U	0.0008 U	0.00079 U	0.00082 U	0.00073 U	0.00067 U	0.00074 U	0.0007 U	0.00072 U	0.0009 U
Endosulfan II	33213-65-9	mg/kg	41	0.084	0.00074 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U	0.00082 U	0.0008 U	0.00079 U	0.00082 U	0.00073 U	0.00067 U	0.00074 U	0.0007 U	0.00072 U	0.0009 U
Endosulfan Sulfate	1031-07-8	mg/kg	41	0.084	0.00074 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U	0.00082 U	0.0008 U	0.00079 U	0.00082 U	0.00073 U	0.00067 U	0.00074 U	0.0007 U	0.00072 U	0.0009 U
Endrin	72-20-8	mg/kg	20	0.04	0.00074 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U	0.00082 U	0.0008 U	0.00079 U	0.00082 U	0.00073 U	0.00067 U	0.00074 U	0.0007 U	0.00072 U	0.0009 U
Endrin Aldehyde	7421-93-4	mg/kg	20	0.04	0.00074 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U	0.00082 U	0.0008 U	0.00079 U	0.00082 U	0.00073 U	0.00067 U	0.00074 U	0.0007 U	0.00072 U	0.0009 U
Endrin Ketone	53494-70-5	mg/kg	20	0.04	0.00074 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U	0.00082 U	0.0008 U	0.00079 U	0.00082 U	0.00073 U	0.00067 U	0.00074 U	0.0007 U	0.00072 U	0.0009 U
gamma-BHC (Lindane)	58-89-9	mg/kg	20	0.02	0.00074 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U	0.00082 U	0.0008 U	0.00079 U	0.00082 U	0.00073 U	0.00067 U	0.00074 U	0.0007 U	0.00072 U	0.0009 U
Heptachlor	76-44-8	mg/kg	0.14	0.013	0.00074 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U	0.00082 U	0.0008 U	0.00079 U	0.00082 U	0.00073 U	0.00067 U	0.00074 U	0.0007 U	0.00072 U	0.0009 U
Heptachlor Epoxide	1024-57-3	mg/kg	0.067	0.02	0.00074 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U	0.00082 U	0.0008 U	0.00079 U	0.00082 U	0.00073 U	0.00067 U	0.00074 U	0.0007 U	0.00072 U	0.0009 U
Hexachlorobenzene	118-74-1	mg/kg	1	1	0.00074 U	0.0008 U	**0.00072 J**	0.00073 U	**0.0018 J**	0.00082 U	0.0008 U	0.00079 U	**0.00083 J**	**0.0017**	0.00067 U	**0.0028 J**	0.0007 U	**0.0031 J**	0.0009 U
Methoxychlor	72-43-5	mg/kg	340	0.8	0.0015 U	0.0016 U	0.0014 U	0.0015 U	0.0015 U	0.0016 U	0.0016 U	0.0016 U	0.0016 U	0.0015 U	0.0013 U	0.0015 U	0.0014 U	0.0014 U	0.0018 U
Toxaphene	8001-35-2	mg/kg	0.56	0.33	0.018 U	0.02 U	0.017 U	0.018 U	0.018 U	0.021 U	0.02 U	0.02 U	0.021 U	0.018 U	0.017 U	0.019 U	0.018 U	0.018 U	0.023 U
Metals																			
Antimony	7440-36-0	mg/kg	27	--	**19.7 J**	2.5 UJ	2.1 UJ	2.3 UJ	2.3 UJ	2.5 UJ	2.5 UJ	2.4 UJ	2.4 UJ	2.3 UJ	2.2 UJ	2.4 UJ	2.2 UJ	**68.2 J**	**2.7 J**
Arsenic	7440-38-2	mg/kg	10	--	**15.4**	**2.5**	**4.5**	**3.9**	**9.8**	**3.1**	**6.3**	**6.7**	2.4 U	**8.2**	**4.1**	**16.7**	**41.7**	**12.5**	**5.8**
Barium	7440-39-3	mg/kg	4700	--	**129**	**75.7**	**57.2**	**69.5**	**149**	**38.8**	**98.2**	**164**	**25.4**	**43.1**	**23.3**	**107**	**49.6**	**92.8**	**90.7**
Beryllium	7440-41-7	mg/kg	2	--	**0.61**	**0.67**	**0.34**	**0.39**	**0.62**	**0.54**	**0.62**	**0.6**	**0.43**	**0.57**	**0.71**	**0.62**	**0.59**	1.1 U	**0.46**
Cadmium	7440-43-9	mg/kg	34	--	**1.2**	0.62 U	0.53 U	0.58 U	**0.74**	0.62 U	**0.95**	**1.7**	0.61 U	0.59 U	0.54 U	**1.2**	0.55 U	2.9 U	**2.5**
Chromium	7440-47-3	mg/kg	3900	--	**9.8**	**11.8**	**11.5**	**8.5**	**13.2**	**15.1**	**14.7**	**19.8**	**10.4**	**13.1**	**13.8**	**17.3**	**10.4**	**7.1**	**15**
Copper	7440-50-8	mg/kg	2500	--	**357 J+**	**4.4 J+**	**32.7 J+**	**30.4 J+**	**67.3 J+**	**5.7 J+**	**30.3 J+**	**42.8 J+**	**9.8 J+**	**16.7 J+**	**9.5 J+**	**35.7 J+**	**20.9 J+**	**356 J+**	**308 J+**
Lead	7439-92-1	mg/kg	400	--	**1140**	**15.8**	**168**	**115**	**449**	**7.3**	**210**	**311**	**2.9**	**46.1**	**5.7**	**143**	**26.4**	**7450**	**745**
Mercury	7439-97-6	mg/kg	20	--	**0.84**	0.035 U	**0.34**	**0.38**	**0.65**	0.039 U	**0.24**	**0.14**	0.02 U	**0.088**	0.029 U	**0.16**	**0.056**	**0.38**	**11**
Nickel	7440-02-0	mg/kg	1400	--	**12.6**	**7.5**	**11.4**	**8.1**	**11.7**	**7.3**	**9.4**	**11.7**	**6.2**	**15.7**	**18**	**29.5**	**21.1**	**9.8**	**12.8**
Selenium	7782-49-2	mg/kg	340	--	2.3 U	2.5 U	2.1 U	2.3 U	2.3 U	2.5 U	2.5 U	2.4 U	2.4 U	2.3 U	2.2 U	2.4 U	**2.4**	11 U	2.7 U
Silver	7440-22-4	mg/kg	340	--	**0.98**	**0.69**	0.53 U	0.58 U	**0.78**	**0.69**	**0.71**	**0.89**	0.61 U	**0.67**	**0.77**	**0.72**	**0.76**	2.9 U	**0.84**
Thallium	7440-28-0	mg/kg	5.4	--	1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U	1.1 U	1.2 U	**2**	5.7 U	1.4 U
Vanadium	7440-62-2	mg/kg	470	--	**20.3**	**28.5**	**20.1**	**16.9**	**35.2**	**24.9**	**21.8**	**27.7**	**16.2**	**88.7**	**170**	**180**	**407**	**14.2**	**17.2**
Zinc	7440-66-6	mg/kg	20000	--	**552 J**	**36.3 J**	**105 J**	**81.4 J**	**217 J**	**20.6 J**	**154 J**	**263 J**	**16.6 J**	**57.3 J**	**51.1 J**	**107 J**	**29.8 J**	**727 J**	**1110 J**
SPLP Metals																			
Antimony	7440-36-0	ug/L	--	6	100 U	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	NA	100 U	100 U	100 U
Arsenic	7440-38-2	ug/L	--	50	100 U	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	NA	100 U	100 U	100 U
Barium	7440-39-3	ug/L	--	1000	200 U	NA	NA	NA	200 U	NA	NA	NA	NA	NA	NA	NA	200 U	200 U	200 U
Beryllium	7440-41-7	ug/L	--	4	2 U	NA	NA	NA	2 U	NA	NA	NA	NA	NA	NA	NA	2 U	2 U	2 U
Cadmium	7440-43-9	ug/L	--	5	4 U	NA	NA	NA	4 U	NA	NA	NA	NA	NA	NA	NA	4 U	4 U	4 U
Chromium	7440-47-3	ug/L	--	50	10 U	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U
Copper	7440-50-8	ug/L	--	1300	**10.3**	NA	NA	NA	**15.5**	NA	NA	NA	NA	NA	NA	NA	**11.9**	**18.1**	**20.6**
Lead	7439-92-1	ug/L	--	15	**38.8**	NA	NA	NA	**109**	NA	NA	NA	NA	NA	NA	NA	**17.3**	**53.8**	**98.4**
Mercury	7439-97-6	mg/L	--	0.002	0.0002 U	NA	NA	NA	**0.0002**	NA	NA	NA	NA	NA	NA	NA	0.0002 U	0.0002 U	**0.00062**
Nickel	7440-02-0	ug/L	--	100	10 U	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U
Selenium	7782-49-2	ug/L	--	50	100 U	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	NA	100 U	100 U	100 U
Silver	7440-22-4	ug/L	--	36	10 U	NA	NA	NA	10 U	NA	NA	NA	NA	NA	NA	NA	10 U	10 U	10 U
Thallium	7440-28-0	ug/L	--	5	100 U	NA	NA	NA	100 U	NA	NA	NA	NA	NA	NA	NA	100 U	100 U	100 U
Vanadium	7440-62-2	ug/L	--	50	50 U	NA	NA	NA	50 U	NA	NA	NA	NA	NA	NA	NA	**207**	50 U	50 U
Zinc	7440-66-6	ug/L	--	5000	20 U	NA	NA	NA	80 U	NA	NA	NA	NA	NA	NA	NA	80 U	20 U	**102**
General Chemistry																			
Solids, Percent	SOLID	percent	--	--	**84.8**	**81.9**	**91.3**	**87.5**	**88.8**	**79.4**	**80.6**	**82**	**80.9**	**87**	**93.4**	**86.5**	**91.6**	**89.7**	**70**

Shading indicates that the concentration exceeds the specified criteria (at a minimum)

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

Table 4-1
TBA Soil Sample Analytical Results
43 Hempstead Street TBA
New London, Connecticut

Location					**MW-5**		**MW-6**		**MW-1R**	
Depth Interval					**0 - 2 ft**	**8 - 10 ft**	**0 - 2 ft**	**3 - 5 ft**	**0 - 2 ft**	**4 - 6 ft**
Sample Date					**08/09/2021**	**08/09/2021**	**08/09/2021**	**08/09/2021**	**08/10/2021**	**08/10/2021**
Sample Type					**N**	**N**	**N**	**N**	**N**	**N**
Chemical/Sample ID	**CAS Number**	**Units**	**CT Residential DEC**	**CT GB-PMC**	**MW-5-0002**	**MW-05-0810**	**MW-6-0002**	**MW-6-0305**	**MW-1R-0002**	**MW-1R-0406**
beta-BHC	319-85-7	mg/kg	0.34	0.002	0.00067 U	0.00074 U	0.00068 U	0.00077 U	0.00066 U	0.00072 U
Chlordane	57-74-9	mg/kg	0.49	0.066	0.033 U	0.037 U	0.034 U	0.039 U	0.033 U	0.036 U
delta-BHC	319-86-8	mg/kg	0.34	0.002	0.00067 U	0.00074 U	0.00068 U	0.00077 U	0.00066 U	0.00072 U
Dieldrin	60-57-1	mg/kg	0.038	0.007	0.00067 U	0.00074 U	0.00068 U	0.00077 U	0.00066 U	0.00072 U
Endosulfan I	959-98-8	mg/kg	41	0.084	0.00067 U	0.00074 U	0.00068 U	0.00077 U	0.00066 U	0.00072 U
Endosulfan II	33213-65-9	mg/kg	41	0.084	0.00067 U	0.00074 U	0.00068 U	0.00077 U	0.00066 U	0.00072 U
Endosulfan Sulfate	1031-07-8	mg/kg	41	0.084	0.00067 U	0.00074 U	0.00068 U	0.00077 U	0.00066 U	0.00072 U
Endrin	72-20-8	mg/kg	20	0.04	0.00067 U	0.00074 U	0.00068 U	0.00077 U	0.00066 U	0.00072 U
Endrin Aldehyde	7421-93-4	mg/kg	20	0.04	0.00067 U	0.00074 U	0.00068 U	0.00077 U	0.00066 U	0.00072 U
Endrin Ketone	53494-70-5	mg/kg	20	0.04	0.00067 U	0.00074 U	0.00068 U	0.00077 U	0.00066 U	0.00072 U
gamma-BHC (Lindane)	58-89-9	mg/kg	20	0.02	0.00067 U	0.00074 U	0.00068 U	0.00077 U	0.00066 U	0.00072 U
Heptachlor	76-44-8	mg/kg	0.14	0.013	0.00067 U	0.00074 U	0.00068 U	0.00077 U	0.00066 U	0.00072 U
Heptachlor Epoxide	1024-57-3	mg/kg	0.067	0.02	0.00067 U	0.00074 U	0.00068 U	0.00077 U	0.00066 U	0.00072 U
Hexachlorobenzene	118-74-1	mg/kg	1	1	0.00067 U	0.00074 U	**0.0044 J+**	0.00077 U	0.00066 U	0.00072 U
Methoxychlor	72-43-5	mg/kg	340	0.8	0.0013 U	0.0015 U	0.0014 U	0.0015 U	0.0013 U	0.0014 U
Toxaphene	8001-35-2	mg/kg	0.56	0.33	0.017 U	0.018 U	0.017 U	0.019 U	0.017 U	0.018 U
Metals										
Antimony	7440-36-0	mg/kg	27	--	2.1 UJ	2.4 UJ	2.1 UJ	12 UJ	2.2 UJ	2.2 UJ
Arsenic	7440-38-2	mg/kg	10	--	**2.4**	2.4 U	**51.9**	**49.1**	**6.2**	**5.7**
Barium	7440-39-3	mg/kg	4700	--	21 U	**60.3**	**115**	**34.3**	**72.9**	**147**
Beryllium	7440-41-7	mg/kg	2	--	**0.5**	**0.57**	**0.68**	1.2 U	**0.47**	**0.48**
Cadmium	7440-43-9	mg/kg	34	--	0.53 U	0.6 U	0.53 U	3 U	**0.58**	0.56 U
Chromium	7440-47-3	mg/kg	3900	--	**9.4**	**14.5**	**9.8**	**11.6**	**12.5**	**17.8**
Copper	7440-50-8	mg/kg	2500	--	**6.1 J+**	**4.8 J+**	**22.9 J+**	**20.3 J+**	**42.7 J+**	**34.1 J+**
Lead	7439-92-1	mg/kg	400	--	**5.8**	**4.1**	**95.2**	**55.3**	**217**	**347**
Mercury	7439-97-6	mg/kg	20	--	0.03 U	0.032 U	**0.16**	**0.091**	**0.27**	**0.54**
Nickel	7440-02-0	mg/kg	1400	--	**5.9**	**8**	**9.5**	**7.7**	**9.5**	**12.9**
Selenium	7782-49-2	mg/kg	340	--	2.1 U	2.4 U	**3.3**	12 U	2.2 U	2.2 U
Silver	7440-22-4	mg/kg	340	--	**0.6**	**1.1**	**0.58**	3 U	0.54 U	**0.58**
Thallium	7440-28-0	mg/kg	5.4	--	1.1 U	1.2 U	1.1 U	1.2 U	1.1 U	1.1 U
Vanadium	7440-62-2	mg/kg	470	--	**16.4**	**22.2**	**49.3**	30 U	**23.5**	**18.1**
Zinc	7440-66-6	mg/kg	20000	--	**15.9 J**	**33.9 J**	**22.4 J**	**20 J**	**165 J**	**202 J**
SPLP Metals										
Antimony	7440-36-0	ug/L	--	6	NA	NA	NA	NA	NA	NA
Arsenic	7440-38-2	ug/L	--	50	NA	NA	NA	NA	NA	NA
Barium	7440-39-3	ug/L	--	1000	NA	NA	NA	NA	NA	NA
Beryllium	7440-41-7	ug/L	--	4	NA	NA	NA	NA	NA	NA
Cadmium	7440-43-9	ug/L	--	5	NA	NA	NA	NA	NA	NA
Chromium	7440-47-3	ug/L	--	50	NA	NA	NA	NA	NA	NA
Copper	7440-50-8	ug/L	--	1300	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	ug/L	--	15	NA	NA	NA	NA	NA	NA
Mercury	7439-97-6	mg/L	--	0.002	NA	NA	NA	NA	NA	NA
Nickel	7440-02-0	ug/L	--	100	NA	NA	NA	NA	NA	NA
Selenium	7782-49-2	ug/L	--	50	NA	NA	NA	NA	NA	NA
Silver	7440-22-4	ug/L	--	36	NA	NA	NA	NA	NA	NA
Thallium	7440-28-0	ug/L	--	5	NA	NA	NA	NA	NA	NA
Vanadium	7440-62-2	ug/L	--	50	NA	NA	NA	NA	NA	NA
Zinc	7440-66-6	ug/L	--	5000	NA	NA	NA	NA	NA	NA
General Chemistry										
Solids, Percent	SOLID	percent	--	--	**94.5**	**84.7**	**90.7**	**85.5**	**91.9**	**86.5**

Shading indicates that the concentration exceeds the specified criteria (at a minimum)

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

Table 4-2
TBA Groundwater Sample Analytical Results
43 Hempstead Street TBA
New London, Connecticut

Location				**MW-2**	**MW-3**		**MW-4**	**MW-5**	**MW-6**	**MW-1R**
Sample Date				**08/18/2021**	**08/18/2021**		**08/19/2021**	**08/18/2021**	**08/18/2021**	**08/19/2021**
Sample Type				**N**	**N**	**FD**	**N**	**N**	**N**	**N**
Chemical/Sample ID	**CAS Number**	**Units**	**CT SWPC**	**MW-2**	**MW-3**	**FD-01-20210818**	**MW-4**	**MW-5**	**MW-6**	**MW-1R**
Volatiles										
1,1,1,2-Tetrachloroethane	630-20-6	ug/L	330	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	71-55-6	ug/L	62000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	110	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	ug/L	320	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	79-00-5	ug/L	1260	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	75-34-3	ug/L	4100	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	75-35-4	ug/L	96	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloropropene	563-58-6	ug/L	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	87-61-6	ug/L	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	96-18-4	ug/L	--	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	120-82-1	ug/L	9.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	95-63-6	ug/L	150	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dibromo-3-chloropropane	96-12-8	ug/L	1.1	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dibromoethane	106-93-4	ug/L	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	95-50-1	ug/L	170000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	107-06-2	ug/L	2970	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	78-87-5	ug/L	150	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	108-67-8	ug/L	260	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,3-Dichlorobenzene	541-73-1	ug/L	26000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichloropropane	142-28-9	ug/L	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	106-46-7	ug/L	26000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2,2-Dichloropropane	594-20-7	ug/L	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	78-93-3	ug/L	10000	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorotoluene	95-49-8	ug/L	10000	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Hexanone	591-78-6	ug/L	10000	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Chlorotoluene	106-43-4	ug/L	10000	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Isopropyltoluene	99-87-6	ug/L	200	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4-Methyl-2-pentanone	108-10-1	ug/L	--	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	67-64-1	ug/L	10000	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acrylonitrile	107-13-1	ug/L	20	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	71-43-2	ug/L	710	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene	108-86-1	ug/L	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	75-27-4	ug/L	510	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	75-25-2	ug/L	10800	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	74-83-9	ug/L	160	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Carbon disulfide	75-15-0	ug/L	150	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Carbon tetrachloride	56-23-5	ug/L	132	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	108-90-7	ug/L	420000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	75-00-3	ug/L	10000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	67-66-3	ug/L	14100	1 U	1 U	1 U	1 U	1 U	1 U	**7.1**
Chloromethane	74-87-3	ug/L	10000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	156-59-2	ug/L	6200	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	10061-01-5	ug/L	34000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	124-48-1	ug/L	1020	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromomethane	74-95-3	ug/L	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	75-71-8	ug/L	10000	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Ethylbenzene	100-41-4	ug/L	580000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	87-68-3	ug/L	10	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Isopropylbenzene	98-82-8	ug/L	210	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	179601-23-1	ug/L	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether	1634-04-4	ug/L	10000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	75-09-2	ug/L	48000	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Naphthalene	91-20-3	ug/L	210	5 U	5 U	5 U	5 U	5 U	**23.1**	5 U
n-Butylbenzene	104-51-8	ug/L	10000	2 U	2 U	2 U	2 U	2 U	2 U	2 U
n-Propylbenzene	103-65-1	ug/L	10000	2 U	2 U	2 U	2 U	2 U	2 U	2 U
o-Xylene	95-47-6	ug/L	--	1 U	1 U	1 U	1 U	1 U	1 U	1 U
sec-Butylbenzene	135-98-8	ug/L	10000	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Styrene	100-42-5	ug/L	320	1 U	1 U	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	98-06-6	ug/L	10000	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Tetrachloroethene	127-18-4	ug/L	88	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	109-99-9	ug/L	9600	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	108-88-3	ug/L	4000000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	156-60-5	ug/L	10000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	10061-02-6	ug/L	34000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,4-Dichlorobutene	110-57-6	ug/L	--	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	79-01-6	ug/L	2340	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	75-69-4	ug/L	10000	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Vinyl chloride	75-01-4	ug/L	15750	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Semivolatiles										
2-Methylnaphthalene	91-57-6	ug/L	62	**57.3**	**33.7**	**27.2**	**35.6**	**38.1**	**937**	**21.9**
Acenaphthene	83-32-9	ug/L	150	0.077 U	0.074 U	0.071 U	0.074 U	0.071 U	**0.523**	0.077 U
Acenaphthylene	208-96-8	ug/L	0.3	0.077 U	0.074 U	0.071 U	0.074 U	0.071 U	**0.639**	0.077 U
Anthracene	120-12-7	ug/L	1100000	0.077 U	0.074 U	0.071 U	0.074 U	0.071 U	**0.231**	0.077 U
Benzo(a)anthracene	56-55-3	ug/L	0.3	0.038 U	0.037 U	0.036 U	0.037 U	0.036 U	0.04 U	0.038 U
Benzo(a)pyrene	50-32-8	ug/L	0.3	0.038 U	0.037 U	0.036 U	0.037 U	0.036 U	0.04 U	0.038 U
Benzo(b)fluoranthene	205-99-2	ug/L	0.3	0.038 U	0.037 U	**0.0436**	0.037 U	0.036 U	0.04 U	**0.0517**
Benzo(g,h,i)perylene	191-24-2	ug/L	150	0.077 U	0.074 U	0.071 U	0.074 U	0.071 U	0.08 U	0.077 U
Benzo(k)fluoranthene	207-08-9	ug/L	0.3	0.077 U	0.074 U	0.071 U	0.074 U	0.071 U	0.08 U	0.077 U
Chrysene	218-01-9	ug/L	0.54	0.077 U	0.074 U	0.071 U	0.074 U	0.071 U	0.08 U	0.077 U
Dibenz(a,h)anthracene	53-70-3	ug/L	0.3	0.077 U	0.074 U	0.071 U	0.074 U	0.071 U	0.08 U	0.077 U
Fluoranthene	206-44-0	ug/L	3700	0.077 U	0.074 U	0.071 U	**0.122**	0.071 U	**0.198**	0.077 U
Fluorene	86-73-7	ug/L	140000	0.077 U	0.074 U	0.071 U	0.074 U	0.071 U	**0.572**	0.077 U
Indeno(1,2,3-cd)pyrene	193-39-5	ug/L	0.54	0.077 U	0.074 U	0.071 U	0.074 U	0.071 U	0.08 U	0.077 U
Naphthalene	91-20-3	ug/L	210	0.077 U	0.074 U	0.071 U	**0.0745**	0.071 U	**7.28**	0.077 U
Phenanthrene	85-01-8	ug/L	14	0.077 U	0.074 U	0.071 U	**0.106**	0.071 U	**0.946**	0.077 U
Pyrene	129-00-0	ug/L	110000	0.077 U	0.074 U	0.071 U	**0.114**	0.071 U	**0.17**	0.077 U

Shading indicates that the concentration exceeds the specified criteria (at a minimum)

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

Table 4-2
TBA Groundwater Sample Analytical Results
43 Hempstead Street TBA
New London, Connecticut

Location				**MW-2**	**MW-3**		**MW-4**	**MW-5**	**MW-6**	**MW-1R**
Sample Date				**08/18/2021**	**08/18/2021**		**08/19/2021**	**08/18/2021**	**08/18/2021**	**08/19/2021**
Sample Type				**N**	**N**	**FD**	**N**	**N**	**N**	**N**
Chemical/Sample ID	**CAS Number**	**Units**	**CT SWPC**	**MW-2**	**MW-3**	**FD-01-20210818**	**MW-4**	**MW-5**	**MW-6**	**MW-1R**
Petroleum Hydrocarbons										
Diesel Range Organics (C9-C36)	C9-C36	mg/L	1.3	0.11 U	0.1 U	0.11 UJ	0.1 U	0.11 U	0.11 U	0.11 U
Pesticides/PCBs										
4,4'-DDD	72-54-8	ug/L	0.05	0.0083 U	0.0082 U	0.0078 U	0.008 U	0.008 U	0.0085 U	0.0085 U
4,4'-DDE	72-55-9	ug/L	0.05	0.0083 U	0.0082 U	0.0078 U	0.008 U	0.008 U	0.0085 U	0.0085 U
4,4'-DDT	50-29-3	ug/L	0.05	0.0083 U	0.0082 U	0.0078 U	0.008 U	0.008 U	0.0085 U	0.0085 U
Alachlor	15972-60-8	ug/L	450	0.083 U	0.082 U	0.078 U	0.08 U	0.08 U	0.085 U	0.085 U
Aldrin	309-00-2	ug/L	0.05	0.0083 U	0.0082 U	0.0078 U	0.008 U	0.008 U	0.0085 U	0.0085 U
alpha-BHC	319-84-6	ug/L	0.11	0.0083 U	0.0082 U	0.0078 U	0.008 U	0.008 U	0.0085 U	0.0085 U
Aroclor 1016	12674-11-2	ug/L	0.5	0.42 U	0.41 U	0.39 U	0.4 U	0.4 U	0.43 U	0.43 U
Aroclor 1221	11104-28-2	ug/L	0.5	0.42 U	0.41 U	0.39 U	0.4 U	0.4 U	0.43 U	0.43 U
Aroclor 1232	11141-16-5	ug/L	0.5	0.42 U	0.41 U	0.39 U	0.4 U	0.4 U	0.43 U	0.43 U
Aroclor 1242	53469-21-9	ug/L	0.5	0.42 U	0.41 U	0.39 U	0.4 U	0.4 U	0.43 U	0.43 U
Aroclor 1248	12672-29-6	ug/L	0.5	0.42 U	0.41 U	0.39 U	0.4 U	0.4 U	0.43 U	0.43 U
Aroclor 1254	11097-69-1	ug/L	0.5	0.42 U	0.41 U	0.39 U	0.4 U	0.4 U	0.43 U	0.43 U
Aroclor 1260	11096-82-5	ug/L	0.5	0.42 U	0.41 U	0.39 U	0.4 U	0.4 U	0.43 U	0.43 U
Aroclor 1262	37324-23-5	ug/L	0.5	0.42 U	0.41 U	0.39 U	0.4 U	0.4 U	0.43 U	0.43 U
Aroclor 1268	11100-14-4	ug/L	0.5	0.42 U	0.41 U	0.39 U	0.4 U	0.4 U	0.43 U	0.43 U
Aroclor, Total	AROCLORTOT	ug/L	0.5	0.42 U	0.41 U	0.39 U	0.4 U	0.4 U	0.43 U	0.43 U
beta-BHC	319-85-7	ug/L	0.11	0.0083 U	0.0082 U	0.0078 U	0.008 U	0.008 U	0.0085 U	0.0085 U
Chlordane	57-74-9	ug/L	0.3	0.42 U	0.41 U	0.39 U	0.4 U	0.4 U	0.43 U	0.43 U
delta-BHC	319-86-8	ug/L	0.11	0.0083 U	0.0082 U	0.0078 U	0.008 U	0.008 U	0.0085 U	0.0085 U
Dieldrin	60-57-1	ug/L	0.1	0.0083 U	0.0082 U	0.0078 U	0.008 U	0.008 U	0.0085 U	0.0085 U
Endosulfan I	959-98-8	ug/L	0.56	0.0083 U	0.0082 U	0.0078 U	0.008 U	0.008 U	0.0085 U	0.0085 U
Endosulfan II	33213-65-9	ug/L	0.56	0.0083 U	0.0082 U	0.0078 U	0.008 U	0.008 U	0.0085 U	0.0085 U
Endosulfan Sulfate	1031-07-8	ug/L	0.56	0.0083 U	0.0082 U	0.0078 U	0.008 U	0.008 U	0.0085 U	0.0085 U
Endrin	72-20-8	ug/L	0.1	0.0083 U	0.0082 U	0.0078 U	0.008 U	0.008 U	0.0085 U	0.0085 U
Endrin Aldehyde	7421-93-4	ug/L	0.1	0.0083 U	0.0082 U	0.0078 U	0.008 U	0.008 U	0.0085 U	0.0085 U
Endrin Ketone	53494-70-5	ug/L	0.1	0.0083 U	0.0082 U	0.0078 U	0.008 U	0.008 U	0.0085 U	0.0085 U
gamma-BHC (Lindane)	58-89-9	ug/L	0.11	0.0083 U	0.0082 U	0.0078 U	0.008 U	0.008 U	0.0085 U	0.0085 U
Heptachlor	76-44-8	ug/L	0.05	0.0083 U	0.0082 U	0.0078 U	0.008 U	0.008 U	0.0085 U	0.0085 U
Heptachlor Epoxide	1024-57-3	ug/L	0.05	0.0083 U	0.0082 U	0.0078 U	0.008 U	0.008 U	0.0085 U	0.0085 U
Hexachlorobenzene	118-74-1	ug/L	0.077	0.0083 U	**0.012**	**0.012**	0.008 U	0.008 U	0.0085 U	**0.0088**
Methoxychlor	72-43-5	ug/L	0.5	0.017 U	0.016 U	0.016 U	0.016 U	0.016 U	0.017 U	0.017 U
Toxaphene	8001-35-2	ug/L	1	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.21 U	0.21 U
Metals										
Antimony	7440-36-0	ug/L	86000	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Arsenic	7440-38-2	ug/L	4	2 U	**2.4**	2 U	2 U	2 U	2 U	2 U
Barium	7440-39-3	ug/L	2200	**153**	**136**	**111**	**86.2**	**81.7**	**35.9**	**60.2**
Beryllium	7440-41-7	ug/L	4	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Cadmium	7440-43-9	ug/L	6	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Chromium	7440-47-3	ug/L	1200	2 U	**10.8**	**3.1**	2 U	2 U	2 U	**4.6**
Copper	7440-50-8	ug/L	48	2 UJ	**39.7 J**	**8.2 J**	2 UJ	2 UJ	2 UJ	**5.4 J**
Lead	7439-92-1	ug/L	13	2 UJ	**30.2 J**	**6.7 J**	2 UJ	2.1 UJ	2 UJ	**43.7 J**
Mercury	7439-97-6	ug/L	0.4	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	7440-02-0	ug/L	880	2 U	**3.9**	2 U	**2.2**	2 U	**3.1**	**2**
Selenium	7782-49-2	ug/L	50	2 U	**3.7**	2 U	2 U	2 U	2 U	2 U
Silver	7440-22-4	ug/L	12	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Thallium	7440-28-0	ug/L	63	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Vanadium	7440-62-2	ug/L	270	2 UJ	**13.6 J**	**3.8 J**	2 UJ	2 UJ	2 UJ	**5.7 J**
Zinc	7440-66-6	ug/L	123	**63.6 J**	**75.8 J**	**29.3 J**	**4.4 J**	**6.3 J**	**5.1 J**	**19.9 J**

Shading indicates that the concentration exceeds the specified criteria (at a minimum)

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

Table 6-1
Evaluation of Remedial Objectives, General Response Actions, Technology Types, and Process Options for Soil Contamination
43 Hempstead Street TBA
New London, Connecticut

Environmental Media	Remedial Objective	General Response Action	Remedial Technology Types (for general response actions)	Process Options
Soil	**Protection of Human Health** - Prevent potential direct exposure (inhalation, dermal contact, or ingestion) to soil contamination at concentrations greater than or equal to Residential DEC Direct Exposure Criteria. - Investigate the potential presence of USTs, and if present, mitigate potential risks associated with them. **Protection of Environment** -Minimize the potential to transport soil contamination via airborne dust/particulates or eroision due to precipitation during remedial actions.	No Action	No Action	Not applicable. Baseline for comparative analysis.
		Limited Action	Institutional Controls	Deed restrictions, land use restrictions, and local ordinances; fencing and signage
		Containment	Containment	Single layer capping
				Multi-layer capping
		In-Situ Treatment	Chemical Treatment	Chemical fixation
			Biological Treatment	Aerobic biodegradation, anaerobic biodegradation, or phytoremediation
			Physical Treatment	Vitrification
			Thermal Treatment	Electrical resistance heating or thermal desorption
		Ex-Situ Treatment/Disposal	Excavation and Disposal	Excavation and either on-site consolidation or off-site disposal
			Physical Treatment	Stabilization/solidification or soil washing
			Chemical Treatment	Chemical oxidation, reduction, or solvent extraction
			Biological Treatment	Aerobic or anaerobic biodegradation
			Thermal Treatment	Thermal desorption or incineration

Notes:

Table 6-2
Remedial Technology Screening - Source Areas
43 Hampstead Street TBA
New London, Connecticut

General Response Action	Remedial Technology Type	Process Option	Process Option Description	Effectiveness	Implementability	Relative Cost	Screening Comments
No Action	No Action	Not applicable	No active source remediation conducted. No monitoring conducted.	The lack of action will not achieve Remedial Objectives.	Simple to implement.	Capital Costs: None O&M Costs: None	Retained for baseline comparison purposes.
Limited Action	Institutional Controls	Deed restrictions, land use restrictions, and local ordinances	Place deed restrictions on parcels to reduce or restrict certain activities or uses at the property, and/or enact local ordinances to prevent activities or installations within the municipality or a portion of the municipality.	This technology will not achieve Remedial Objectives, but may reduce potential exposures and risk to human health. The overall effectiveness of this technology depends greatly on the enforcement of the restrictions and ordinances.	Implementation of this technology will require involvement of local and state agencies.	Capital Costs: Low O&M Costs: Low	Coupled with the intended redevelopment as a park, this technology (as a standalone technology) will not achieve Remedial Objectives. However, implementation as a component of a multi-faceted alternative may be necessary. Retained.
		Fencing and signage	Install signs and fencing to limit/restrict unauthorized entry.	This technology will not achieve Remedial Objectives, but may reduce risk to human health.	Simple to implement.	Capital Costs: Low O&M Costs: Low	Coupled with the intended redevelopment as a school, tis technology will not achieve Remedial Objectives. Eliminated.
Containment	Containment	Single layer capping	Construct an impermeable or semi-permeable cap to minimize direct exposure, limit vertical infiltration of water, contain contamination, and create a usable land surface.	This technology may be able to achieve Remedial Objectives. This process option has been well demonstrated as effective at reducing human health risk when coupled with institutional controls. Contaminants remain on the property however.	Implementability is limited due to proposed development. Consolidation of excavation spoils resulting from development is required.	Capital Costs: Low O&M Costs: Low	Technology is potentially effective, but the implementation is made difficult due to the proposed development, and the coommunity may not accept this alternative.Retained
		Multi-layer capping	Construct an impermeable cap to minimize exposure on the surface, prevent vertical infiltration of water, contain contamination, and create a usable land surface.	This technology may be able to achieve RAOs. This process option has been well demonstrated. Potential impacts to workers during construction. Stormwater runoff will need to be managed.	Services, materials, and specialized contractors are available to perform installations. Significant disruptions are anticipated during construction.	Capital Costs: Medium O&M Costs: Medium	No more protective than single layer to prevent direct exposure contacts. Eliminated.
In-Situ Treatment	Physical Treatment	Solidification/Stabilization	A soil amendment is either injected or mixed in-situ (auger or caisson) to fixate contaminants to soil particles and thus rendering them immobile.	This technology is not likely to achieve Remedial Objectives as it does not prevent direct contact with future park users.	This process option is readily available through specialty vendors. Some processes result in a significant increase in volume (up to double the original volume). The solidified material may hinder future site use.	Capital Costs: Medium O&M Costs: N/A	Technology will not achieve Remedial Objectives, and may hinder future development. Eliminated.
		Soil Vapor Extraction	Vacuum is applied through extraction wells to create a pressure/concentration gradient that induces gas-phase volatiles to be removed from soil through extraction wells.	This technology will not achieve Remedial Objectives for the contaminant (dieldrin), which has a low vapor pressure.	Can be readily implemented at the Site. Services, materials, and contractors are readily available to perform installations. Treatment residuals require disposal/management.	Capital Costs: Medium O&M Costs: Medium	Not a demonstrated technology for the contaminants of concern. Eliminated.
	Chemical Treatment	Chemical Oxidation	Injection of constituents into the subsurface to oxidize and destroy organic compounds.	Certain applications of this technology may be able to achieve Remedial Objectives for dieldrin; however, no overburden groundwater is present. This technology generally requires a saturated media to be most effective. This process option has been well demonstrated. However, presence of naturally occurring carbon and other oxidizable matter can limit treatment effectiveness. Potential impacts to workers during materials handling and injections, particularly with surface soil.	Although services, materials, and contractors are readily available to perform injections, physical Implementation of this method in the shallow soil zone will likely cause reagent migration to the ground surface. Some of these treatment residuals may require containment and disposal.	Capital Costs: Medium O&M Costs: N/A	Not effective in the shallow zone, and ineffective on destroying metals. Eliminated.
		Chemical Reduction	Injection of constituents into the subsurface to chemically reduce inorganic compounds to less mobile and less toxic compounds.	This process option is not well demonstrated in treatment of unsaturated soil contamination.	Although services, materials, and contractors are readily available to perform injections, physical Implementation of this method in the shallow soil zone will likely cause reagent migration to the ground surface. Some of these treatment residuals may require containment and disposal.	Capital Costs: Medium O&M Costs: N/A	Not a demonstrated technology for the contaminants of concern. Eliminated.
	Biological Treatment	Enhanced biodegradation	Aerobic or anaerobic degradation of organic contaminants through the addition of nutrient or indigenous/engineered microorganisms.	Dieldrin is not readily biodegradable. Particular enhancement technologies may be able to achieve Remedial Objectives for dieldrin; however, it is not well demonstrated for treatment of unsaturated soils.	Specialty contractors that offer the bioaugmentation and stimulation materials and injection services are available. No treatment residuals anticipated that warrant off-site disposal.	Capital Costs: Medium O&M Costs: N/A	Not a demonstrated technology for the contaminants of concern. Eliminated.
		Phytoremediation	Phytoremediation is a process that uses plants to remove, transfer, stabilize, and destroy organic and inorganic contaminants in soil.	This technology has not been well demonstrated to treat dieldrin contamination in shallow soil. Additionally, this process option may be seasonal.	Contractors that offer the materials are available. No treatment residuals anticipated that warrant off-site disposal. Site redevelopment would be hampered by the presence of large stands of phytoremediation vegetation.	Capital Costs: Low O&M Costs: N/A	Not a demonstrated technology for the contaminants of concern. Eliminated.

Table 6-2
Remedial Technology Screening - Source Areas
43 Hampstead Street TBA
New London, Connecticut

General Response Action	Remedial Technology Type	Process Option	Process Option Description	Effectiveness	Implementability	Relative Cost	Screening Comments
In-Situ Treatment	Thermal Treatment	Electrical Resistance Heating	Using an electrical current, soil is heated so that water and contaminants trapped are vaporized and ready for vacuum extraction.	Dieldrin exhibits relatively low volatility. Therefore this technology may not be effective at extracting dieldrin from surface soil.	Specialty contractors are available to perform this process option. However, specific engineering controls (such as a surface cover system) are necessary to prevent the release of hot vapor and enhance contaminant capture. The dieldrin is present in surface soil, therefore, this technology is not implementable to treat the surface soil contamination.	Capital Costs: High O&M Costs: High	Not a demonstrated technology for the contaminants of concern. Eliminated.
		Thermal desorption	Using high temperature thermal desorption, soil is heated in-situ to 320 to 600°C volatilizing contaminants.	Dieldrin exhibits relatively low volatility. Therefore this technology may not be effective at extracting dieldrin from surface soil.	Specialty contractors are available to perform this process option. However, specific engineering controls (such as a surface cover system) are necessary to prevent the release of hot vapor and enhance contaminant capture. The dieldrin is present in surface soil, therefore, this technology is not implementable to treat the surface soil contamination.	Capital Costs: High O&M Costs: High	Not a demonstrated technology for the contaminants of concern. Eliminated.
		Vitrification	Soil is heated in-situ to form a glass, thereby destroying the organic compounds and immobilizing most inorganic contaminants. Off gases need to be captured, condensed, and treated before discharging to the ambient air.	This technology may be able to achieve Remedial Objectives. However, process option is not well demonstrated at full-scale due to implementation problems in the past associated with recovery/control of extremely hot gases. Short-term impacts to workers include potentially high gas temperatures, extensive period needed to cool down treatment zone.	There are no current vendors that market this process option. Specialty equipment, construction materials, and personnel are required. Permits can be obtained and TSDFs are available for the off-site disposal of recovered wastes.	Capital Costs: High O&M Costs: High	Vitrification not well demonstrated at full-scale, no current vendor for process option. Eliminated
Ex-Situ Treatment/ Disposal	Physical Treatment	Solidification/Stabilization	Soil is excavated and a soil amendment is mixed ex-situ to fixate contaminants to soil particles and thus rendering them immobile.	This technology may be able to achieve Remedial Objectives. A treatability study is generally required to confirm COCs are compatible with process. This process option is well demonstrated. Materials may "weather" and affect the ability to maintain immobilization of COCs. Standard construction hazards to workers are anticipated during materials handling and ex-situ treatment. Potential impacts to workers and nearby residents may occur during ex-situ treatment; however, measures can be implemented to control fugitive dust emissions.	This process option is readily available through specialty vendors. Some processes result in a significant increase in volume (up to double the original volume). Permits can be obtained and TSDFs are available for the off-site disposal of solidified material. Onsite disposal of solidified material may significantly hinder future site use because of alteration to local topography.	Capital Costs: High O&M Costs: N/A	Does not achieve remedial goals. Eliminated.
		Soil Washing	Soil is excavated and contaminants are removed from soil by concentrating them into a smaller volume of soil through particle size separation, gravity separation, and attrition scrubbing.	This technology may be able to achieve Remedial Objectives. This process option has been well demonstrated for coarser sized particles. However, contaminants may be associated with fines and may note be readily separated by gravity separation or filtration. Standard construction hazards to workers are anticipated during materials handling and ex-situ treatment. Potential impacts to workers and nearby residents may occur during ex-situ treatment; however, measures can be implemented to control fugitive dust emissions.	This process option is readily available through specialty vendors. Permits can be obtained and TSDFs are available for the off-site disposal of treated material. Significant disruptions are anticipated during construction.	Capital Costs: High O&M Costs: N/A	May not be effective for fines, which will be difficult to separate. Eliminated.
	Chemical Treatment	Chemical Oxidation	Soil is excavated and oxidants are mixed ex-situ to oxidize and destroy organic compounds.	Certain applications of this technology may be able to achieve Remedial Objectives for dieldrin; however, a constructed reactor would be required to treat the soil. The effectiveness of treating relatively low concentrations of dieldrin is not known. The presence of naturally occurring carbon and other oxidizable matter can limit treatment effectiveness. Potential impacts to workers during materials handling and treatments.	Can be readily implemented at the Site. Services, materials, and contractors are readily available to perform injections. Once treated, soils can be used to fill excavations. Significant disruptions are anticipated during construction.	Capital Costs: High O&M Costs: N/A	Not a demonstrated technology for this soil contamination. Eliminated.
		Chemical Reduction	Soil is excavated and reducing constituents are mixed ex-situ to reduce inorganic compounds to less mobile and less toxic compounds.	This technology is not well demonstrated for soil contamination. Difficult to accurately evaluate effectiveness. Standard construction hazards to workers are anticipated during materials handling and ex-situ treatment. Potential impacts to workers and nearby residents may occur during ex-situ treatment; however, measures can be implemented to control fugitive dust emissions.	Specialty contractors that offer geochemical analysis, reagent, and injection services are available. Once treated, soils can be used to fill excavations. Significant disruptions are anticipated during construction.	Capital Costs: Medium O&M Costs: N/A	Not a demonstrated technology for this soil contamination. Eliminated.
	Biological Treatment	Enhanced biodegradation	Soil is excavated, placed into bioreactors, and undergo aerobic or anaerobic degradation of organic contaminants through the addition of nutrient or indigenous/engineered microorganisms.	Limited evidence has been shown in demonstrating biodegradation of dieldrin. It is generally considered resistant to biodegradation.	Specialty contractors that offer the bioaugmentation and stimulation materials are available. Once treated, soils can be used to fill excavations. Significant areas are required to construct bioreactors, and disruptions are anticipated during site redevelopment	Capital Costs: High O&M Costs: Low	Not a demonstrated technology for this soil contamination. Eliminated.

Table 6-2
Remedial Technology Screening - Source Areas
43 Hampstead Street TBA
New London, Connecticut

General Response Action	Remedial Technology Type	Process Option	Process Option Description	Effectiveness	Implementability	Relative Cost	Screening Comments
Ex-Situ Treatment/ Disposal	Thermal Treatment	Thermal desorption	Soil is excavated then heated using medium temperature thermal desorption (low temperature is ineffective for Site COCs) to 320 to 600°C volatilizing contaminants.	Dieldrin has relatively low volatility; however, the extreme heat of the ex-situ option may be effective at volatilizing the contaminants. Treatment efficacy is likely low due to the relatively low concentrations detected in the soil. In addition, the recovery/control of extremely hot gases presents a serious safety issues. Standard construction hazards to workers are anticipated during ex-situ treatment. In addition, short-term impacts to workers/residents include potentially high gas temperatures, extensive period needed to cool down treatment zone. Control measures can be implemented to protect workers and residents.	Specialty contractors are available to perform this process option. Specialty equipment, construction materials, and personnel are required. Numerous permits must be obtained and TSDFs are available for the off-site disposal of recovered wastes. Once treated, soils can be used to fill excavations. Significant on-site and off-site disruptions are anticipated during construction, operation, and demobilization.	Capital Costs: High O&M Costs: High	Not a demonstrated technology for all of the site contaminants. Eliminated.
		Vitrification	Soil is excavated then heated to form a glass, thereby destroying the organic compounds and immobilizing most inorganic contaminants. Off gases need to be captured, condensed, and treated before discharging to the ambient air.	This technology may be able to achieve Remedial Objectives. However, process option is not well demonstrated at full-scale due to implementation problems in the past associated with recovery/control of extremely hot gases. Standard construction hazards to workers are anticipated during ex-situ treatment. In addition, short-term impacts to workers include potentially high gas temperatures, extensive period needed to cool down treatment zone. Control measures can be implemented to protect workers and residents.	There are no current vendors that market this process option. Specialty equipment, construction materials, and personnel are required. Off-site treatment may be available; however, for such small soil volumes, it is not cost effective.	Capital Costs: High O&M Costs: High	Vitrification not well demonstrated at full-scale, no current vendor for process option. Eliminated.
		Incineration	Soil is excavated then heated using high temperatures (870 to 1,200 °C), volatilizing and oxidizing contaminants.	This technology may be able to achieve Remedial Objectives for dieldrin. Standard construction hazards to workers are anticipated during ex-situ treatment. In addition, short-term impacts to workers/residents include potentially high gas temperatures, extensive period needed to cool down treatment zone. Treatment could only be conducted at an off-site treatment facility.	Incineration facilities are available within the United States; however, none are local to the Palmer Pointe property.	Capital Costs: High O&M Costs: N/A	Not a demonstrated technology for all of the site contaminants. Eliminated.
	Excavation and Disposal	Off-site disposal/landfill	Contaminated materials are excavated, loaded, and transported to off-site disposal facilities.	This technology will likely achieve Remedial Objectives. Excavation and relocation/disposal of contaminated soil has been well demonstrated.	Dieldrin contamination would not likely constitute a hazardous waste, and based on evaluation of other contaminants detected in nearby soil, no other constituent would likely cause the waste to be classified as hazardous. Therefore, this excavated soil may be disposed-of as a non-hazardous solid waste. Vendors are available to perform this process option, and relatively local facilities are available to accept the waste for disposal (assuming it meets unlined-landfill disposal criteria is MassDEP's Comm 97-001 disposal guidance). Engineering controls would be required to minimize disruption to the local community and nearby sensitive environments.	Capital Costs: Medium O&M Costs: N/A	Technology is effective and easily implemented. Retained.
		On-site disposal	Contaminated materials are excavated and disposed of at an on-site location.	This technology may be able to achieve Remedial Objectives. On-site consolidation is a well-established technology. Typically on-site consolidation actions require an institutional control such as a deed restriction, but may also in some circumstances require a physical barrier to supplement the on-site cover system.	Implementation of this method is identical to the on-site capping technology but with the addition of excavation and on-site consolidation. Given the development proposal coupled with the anticipated volume of soil contamination, and the limited amount of available space to construct a consolidation area, implementation would be difficult.	Capital Costs: Medium O&M Costs: Low	Difficult to implement because of lack of available area, and limits redevelopment potential in a sizable area.Eliminated.

Legend: Process option is eliminated

Table 6-3
Detailed Analysis of Alternatives for Source Areas
43 Hempstead Street TBA
New London, Connecticut

EVALUATION CRITERIA	ALTERNATIVE SC-01 – No Action
Attainment of Remedial Objectives	- No reduction in risk in the near term or long-term; - No mechanisms would be in place to prevent improper use or exposure to soil contaminants; - Alternative will not meet this criteria
Compliance with local, state, and federal laws/regulations or other public concerns	- Alternative will not reduce contamination to Residential Direct Exposure Criteria, or reduce risk to an acceptable level
Technical Feasibility	- This alternative is easy to implement.
Short-Term Effectiveness	- This alternative is not effective in attaining Remedial Objectives in the short-term.
Long-Term Effectiveness/Permanence	- This alternative does not eliminate any risk in the long term.
Capital Cost	$0
Present Worth of Cost of Operations and Maintenance	$0
Total Present Worth Cost	$0

Table 6-3
Detailed Analysis of Alternatives for Source Areas
43 Hempstead Street TBA
New London, Connecticut

EVALUATION CRITERIA	ALTERNATIVE SC-02 – UST Investigation/Removals with Comprehensive Excavation and Off-Site Land Disposal
Attainment of Remedial Objectives	- UST investigation and removals will address the hazards presented by the UST presence as well as impacted soil related to UST releases (if any). - Excavation will progress until the 95% UCL of the mean concentration of remaning soil is below the Residential DEC. - With proper site monitoring, this alternative will attain the RAOs.
Compliance with local, state, and federal laws/regulations or other public concerns	- UST removals will be conducted in accordance with Federal and State regulations. - Removal of the contaminated soil will comply with the Connecticut Remediation Standard Regulations. - This alternative complies Federal, state, and local regulations pertaining to excavation, soil transportation, and off-site disposal will be attained. - Based on available data, the contaminated soil is likely considered a non-hazardous waste, therefore land-disposal restrictions do not apply. - Commercial landfilling operations are permitted by the state in which the landfill operates. Disposal of this contaminated soil in a properly permitted land disposal facility will promote compliance with waste disposal regulations.
Technical Feasibility	- At least one permitted land disposal facility is available that could accept this contaminated soil.
Short-Term Effectiveness	- This alternative is effective in attaining Remedial Objectives in the short-term.
Long-Term Effectiveness/Permanence	- This alternative removes all accessible soil and is an effective and permanent action. - Although the soil contamination will be interred in a landfill, it will not be destroyed per-se. However the likelihood of this contaminated soil posing a future concern at the disposal landfill is very low.
Capital Cost	$1,600,000
Present Worth of Cost of Operations and Maintenance	$0
Total Present Worth Cost	$1,600,000

Table 6-3
Detailed Analysis of Alternatives for Source Areas
43 Hempstead Street TBA
New London, Connecticut

EVALUATION CRITERIA	ALTERNATIVE SC-03 – UST Investigation/Removals with Targeted Excavation, Off-Site Land Disposal, and Institutional Controls
Attainment of Remedial Objectives	- UST investigation and removals will address the hazards presented by the UST presence as well as impacted soil related to UST releases (if any). - Excavation will progress until the 95% UCL of the mean concentration of remaning soil is below the Residential DEC. - With proper site monitoring, this alternative will attain the RAOs.
Compliance with local, state, and federal laws/regulations or other public concerns	- UST removals will be conducted in accordance with Federal and State regulations. - Removal of the contaminated soil will comply with the Connecticut Remediation Standard Regulations. - This alternative complies Federal, state, and local regulations pertaining to excavation, soil transportation, and off-site disposal will be attained. - Based on available data, the contaminated soil is likely considered a non-hazardous waste, therefore land-disposal restrictions do not apply. - Placement of an ELUR complies with Connecticut's Remediation Standard Regulations. - Commercial landfilling operations are permitted by the state in which the landfill operates. Disposal of this contaminated soil in a properly permitted land disposal facility will promote compliance with waste disposal regulations.
Technical Feasibility	- At least one permitted land disposal facility is available that could accept this contaminated soil. - Placement of an ELUR is not technically difficult to conduct.
Short-Term Effectiveness	- This alternative is effective in attaining Remedial Objectives in the short-term.
Long-Term Effectiveness/Permanence	- This alternative removes the most-impacted accessible soil and with proper ELUR compliance, inspection, and maintenance is an effective and permanent action. - Although the soil contamination will be interred in a landfill, it will not be destroyed per-se. However the likelihood of this contaminated soil posing a future concern at the disposal landfill is very low.
Capital Cost	$690,000
Present Worth of Cost of Operations and Maintenance	$26,000
Total Present Worth Cost	$716,000

Costs do not include the contamianted soil export costs associated with the assumed site redevelopment.

Table 6-3
Detailed Analysis of Alternatives for Source Areas
43 Hempstead Street TBA
New London, Connecticut

EVALUATION CRITERIA	ALTERNATIVE SC-04 – UST Investigation/Removals with Comprehensive Single-Layer Barrier System Installation, and Institutional Controls
Attainment of Remedial Objectives	- UST investigation and removals will address the hazards presented by the UST presence as well as impacted soil related to UST releases (if any). - Placement of 4 feet of clean fill will effectively render the contamianted soil inaccessible per the Connecticut Remediation Standard Regulations. - With proper site monitoring, this alternative will attain the RAOs.
Compliance with local, state, and federal laws/regulations or other public concerns	- UST removals will be conducted in accordance with Federal and State regulations. - Placement of a 4-foot barrier layer over the contaminated soil with a warning layer and ELUR complies with Connecticut's Remediation Standard Regulations.
Technical Feasibility	- Ample sources of clean backfill are available in sufficient quantity to complete this remedy. - Placement of an ELUR is not technically difficult to conduct.
Short-Term Effectiveness	- This alternative is effective in attaining Remedial Objectives in the short-term.
Long-Term Effectiveness/Permanence	- With proper barrier system inspection and maintenance, compliance with a soil management plan, and verification of site activities prevented by the ELUR, this alternative is effective in the long-term.
Capital Cost	$448,000
Present Worth of Cost of Operations and Maintenance	$26,000
Total Present Worth Cost	$474,000

Costs do not include the cap material and contamianted soil soil export costs associated with the assumed site redevelopment.

FIGURES

USGS Topographic Map
New London, CT
1984

N

KGSNE

FIGURE 1-1

SITE LOCUS
43 HEMPSTEAD STREET
NEW LONDON, CONNECTICUT

PREPARED BY: CA	CHECKED BY: AE
PROJECT NO. 93203.15	DATE: MAY 2021

J:\93203.00 - START Contract - Task Order 03\93203.15 - 43_Hempsted_New_London_TBA\Technical_Data\GIS\Maps_Figures\TBA_Report\Figure 1-1 Site Locus.mxd 11/12/2021 17:24 dmcgrath

Notes:

1. Aerial photograph from CT ECO, 2019.

2. Features detected by GPR are extracted from reports from Nova Geophysical Services.

3. Feature labeled "UST" was found on the 1951 and 1954 map produced by Sanborn Library, LLC.

4. The original well labeled MW-1 was found to be dry, so a replacement well was excavated and labeled MW-1R.

5. Locations of site features depicted hereon are approximate and given for illustrative purposes only.

- Previous Soil Boring
- Existing and TBA Monitoring Well
- TBA Soil Boring
- UST as Identified on 1951 and 1954 Sanborn Maps.
- Demolished Site Structure
- Anomaly Detected by GPR, Potential Underground Storage Tank
- Approximate Property Boundary

0 12.5 25 50

Feet
1 inch = 25 feet

N

KGSNE

FIGURE 2-1

SITE PLAN

43 HEMPSTED STREET
NEW LONDON, CONNECTICUT

PREPARED BY: JTS	CHECKED BY: JB
PROJECT NO. 93203.15	DATE: AUGUST 2021

2023-13 CONL Environmental Services for 43 Hempstead Street

J:\93203.00 - START Contract - Task Order 03\93203.15 - 43_Hempsted_New_London_TBA\Technical_Data\GIS\Maps_Figures\TBA_Report\Figure 2-1 Site Plan.mxd 11/12/2021 17:40 dmegrath

Notes:

1. Aerial photograph from CT ECO, 2019.

2. Features detected by GPR are extracted from reports from Nova Geophysical Services.

3. Feature labeled "UST" was found on the 1951 and 1954 map produced by Sanborn Library, LLC.

4. The original well labeled MW-1 was found to be dry, so a replacement well was excavated and labeled MW-1R.

5. Locations of site features depicted hereon are approximate and given for illustrative purposes only.

Existing and TBA Monitoring Well

Demolished Site Structure

Anomaly Detected by GPR, Potential Underground Storage Tank

Approximate Property Boundary

0 12.5 25 50

Feet
1 inch = 25 feet

N

KGSNE

FIGURE 2-2

OVERBURDEN GROUNDWATER CONTOURS

43 HEMPSTED STREET
NEW LONDON, CONNECTICUT

PREPARED BY: JTS	CHECKED BY: JB
PROJECT NO. 93203.15	DATE: AUGUST 2021

2023-13 CONL Environmental Services for 43 Hempstead Street

J:\93203.00 - START Contract - Task Order 03\93203.15 - 43_Hempsted_New_London_TBA\Technical_Data\GIS\Maps_Figures\TBA_Report\Figure 2-2 Groundwater Elevation.mxd 11/12/2021 17:43 dmcgrath

NOVA Geophysics Survey Report

APPENDIX A

GEOPHYSICAL ENGINEERING SURVEY REPORT

Industrial Property
43 Hempstead Street,
New London, Connecticut 06320

NOVA PROJECT NUMBER:
21-2244

DATED:
May 12, 2021

PREPARED FOR:

nobis

585 Middlesex Street
Lowell, MA 01851

PREPARED BY:

NOVA
GEOPHYSICAL
ENGINEERING
Subsurface Mapping Solutions

56-01 Marathon Parkway # 765
Douglaston, New York 11362
347-556-7787 (PHONE)
718-261-1527(FAX)
www.nova-gsi.com

NOVA GEOPHYSICAL SERVICES

SUBSURFACE MAPPING SOLUTIONS
56-01 Marathon Parkway #765, Douglaston, New York 11362
Ph. 347-556-7787 Fax. 718-261-1527
www.novagsi.com

May 12, 2021

Jefferey Brunelle

nobis

585 Middlesex Street
Lowell, MA 01851
P: 978.703.6038 | E: jbrunelle@nobis-group.com

Re: Geophysical Engineering Survey (GES) Report
Industrial Site
43 Hempstead Street,
New London, Connecticut 06320

Dear Mr. Brunelle,

Nova Geophysical Services (NOVA) is pleased to provide the findings of the geophysical engineering survey (GES) at the above referenced project site: 43 Hempstead Street, New London, Connecticut 06320 (the "Site").

INTRODUCTION TO GEOPHYSICAL ENGINEERING SURVEY (GES)

NOVA performed a geophysical engineering survey (GES) consisting of a Ground Penetrating Radar (GPR) and Electromagnetic (EM) survey at the site. The purpose of this survey is to locate and identify utilities, anomalies, underground storage tanks (USTs) and other substructures on May 6th, 2021.

The equipment selected for this investigation was a Sensors and Software Noggin 250 MHz ground penetrating radar (GPR) with a shielded antenna and a Radio Detection RD7100 Electromagnetic utility locator.

A GPR system consists of a radar control unit, control cable, and transducer (antenna). The control unit transmits a trigger pulse at a normal repetition rate of 250 MHz. The trigger pulse is sent to the transmitter electronics in the transducer via the control cable. The transmitter electronics amplify the trigger pulse into bipolar pulses that are radiated to the surface. The transformed pulses vary in shape and frequency according to the transducer used. In the subsurface, variations of the signal occur at boundaries where there is a dielectric contrast (void, steel, soil type, etc.). Signal reflections travel back to the control unit and are represented as color graphic images for interpolation.

A typical electromagnetic (EM) utility locating system consists of a transmitter unit and a receiver unit. The receiver unit can be used independently of the transmitter unit in order to detect utility lines with an inherent EM signature (electric utility lines, water lines, etc.). If needed a current at a specific frequency can also be placed on a utility that is being located. This can be done via the transmitter unit by either direct connection or induction via an EM field varying at specific frequency. The receiver unit is then set to the selected frequency and the electromagnetic field created by the current running through the utility can be located allowing the utility to be marked.

GEOPHYSICAL METHODS

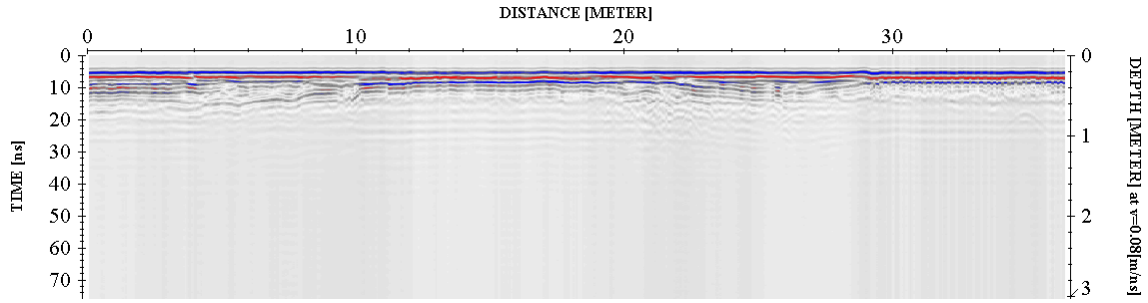
The project site was screened using GPR to search the specified area and inspected for reflections, which could be indicative of substructures and utilities within the subsurface. An EM utility locator was used to help determine the locations of utilities within the survey area.

EM data was collected and interpreted on site and suspected utilities marked as needed. GPR data profiles were collected for the areas of the Site specified by the client and processed as specified below.

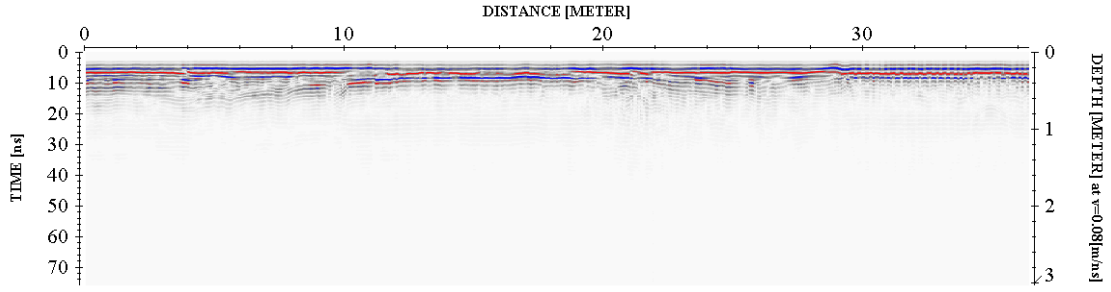
DATA PROCESSING

In order to improve the quality of the results and to better identify anomalies NOVA processed the collected data. The processing work flow is briefly described in this section.

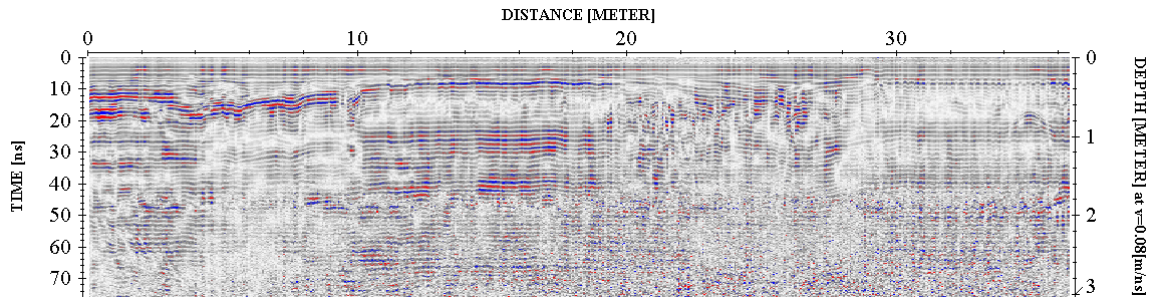
Step 1. Import Raw RAMAC data to standard processing format



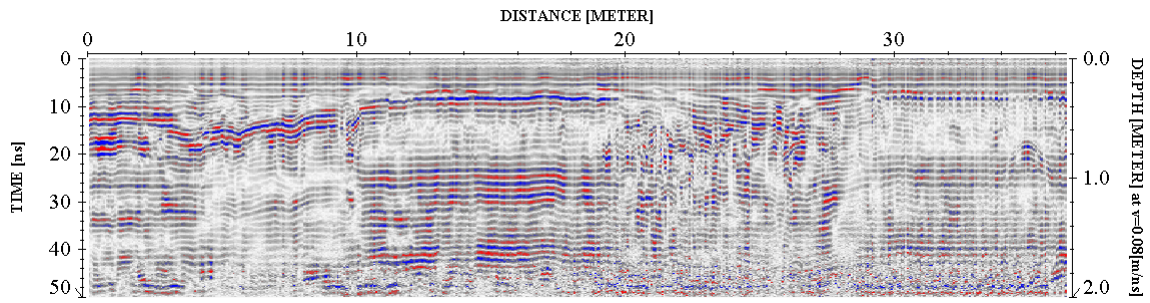
Step 2. Remove instrument noise *(dewow)*



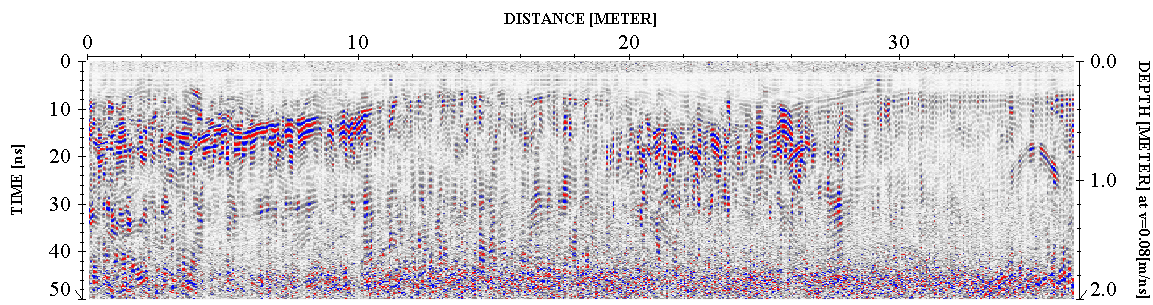
Step 3. Correct for attenuation losses *(energy decay function)*



Step 4. Remove static from bottom of profile *(time cut)*



Step 5. Mute horizontal ringing/noise *(subtracting average)*



The above example shows the significance of data processing. The last image (step 5) has higher resolution than the starting image (raw data – step 1) and represents the subsurface anomalies much more accurately.

PHYSICAL SETTINGS

NOVA observed the following physical conditions at the time of the survey.

Weather: Clear

Temperature: 60° F

Surface: Concrete, Vegetation, Fill

Survey Parameters: A GPR grid scan was conducted throughout the site, as shown in the survey plan. The approximate line spacing of the grid survey was 4' to 5'. Additional GPR lines were collected in areas with features of interest. An EM utility locator was used in conjunction with the GPR throughout the surveyed areas.

Limitations: The geophysical noise level (GNL) was high at the site. The noise was a result of the site being in an urban environment and the presence of fill on the site.

RESULTS

The results of the geophysical engineering survey (GES) identified the following at the project site:

- Anomalies resembling potential subsurface former utilities related to demolished buildings on the site were identified during the GES. The approximate locations are shown in the survey plan in red.
- A large, conductive geophysical anomaly resembling a potential underground storage tank (UST) was identified during the GES. Shown in the survey plan in pink.
- Geophysical anomalies resembling foundation elements from previous buildings on the property were identified during the GES and are shown in blue. Scattered evidence of potential foundation was also identified in areas containing former buildings that could not be fully identified with GPR.
- An additional geophysical anomaly resembling a flat lying reflector was identified during the GES and is shown in the survey plan in green.
- All detected subsurface anomalies were marked in the onsite mark out.
- All cleared boring locations were marked in the onsite mark out.

If you have any questions, please do not hesitate to contact the undersigned.

Sincerely,

NOVA Geophysical Services

Levent Eskicakit, P.G., E.P.

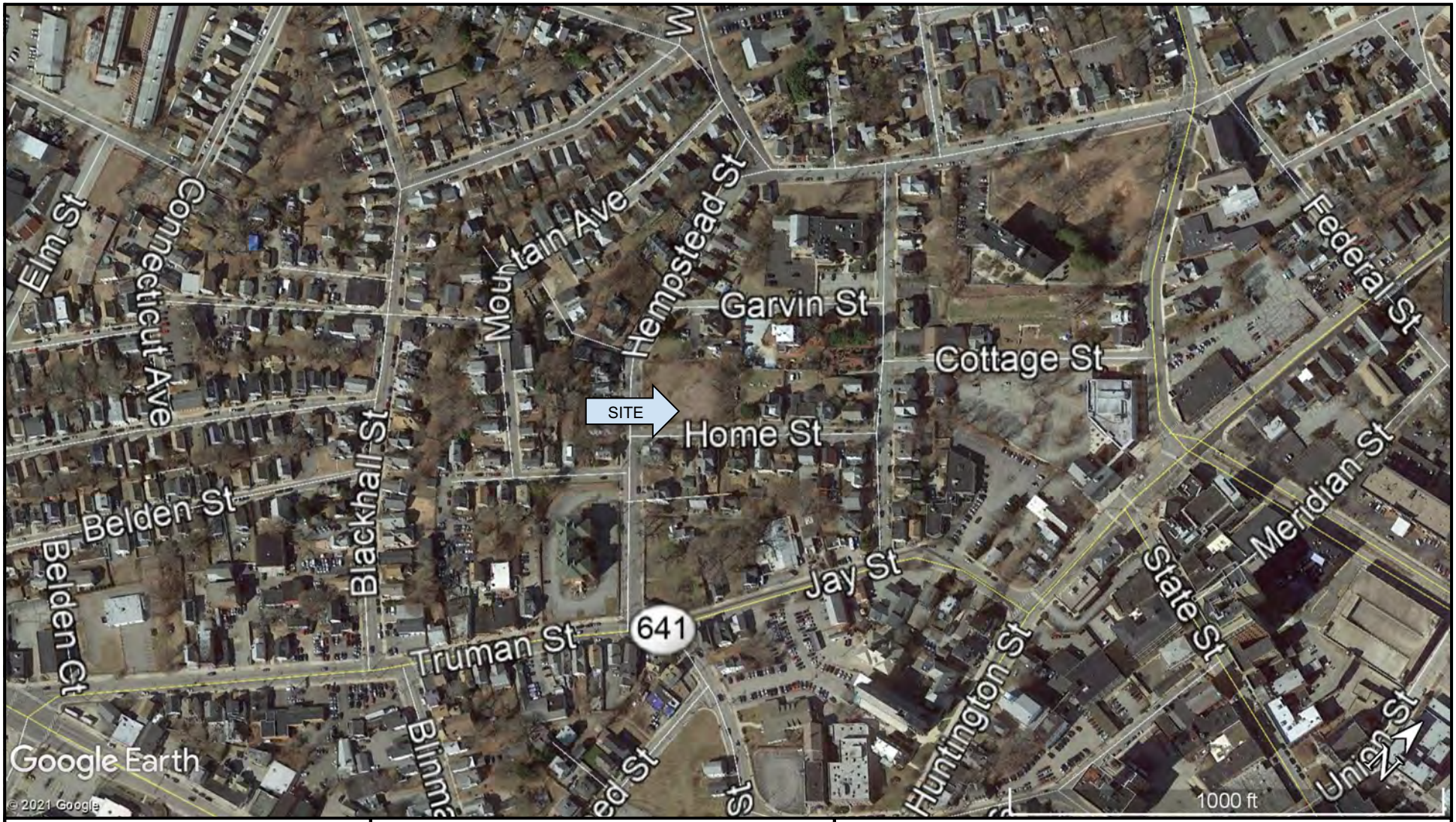
Project Engineer

Attachments:

Location Map

Survey Plan

Geophysical Images



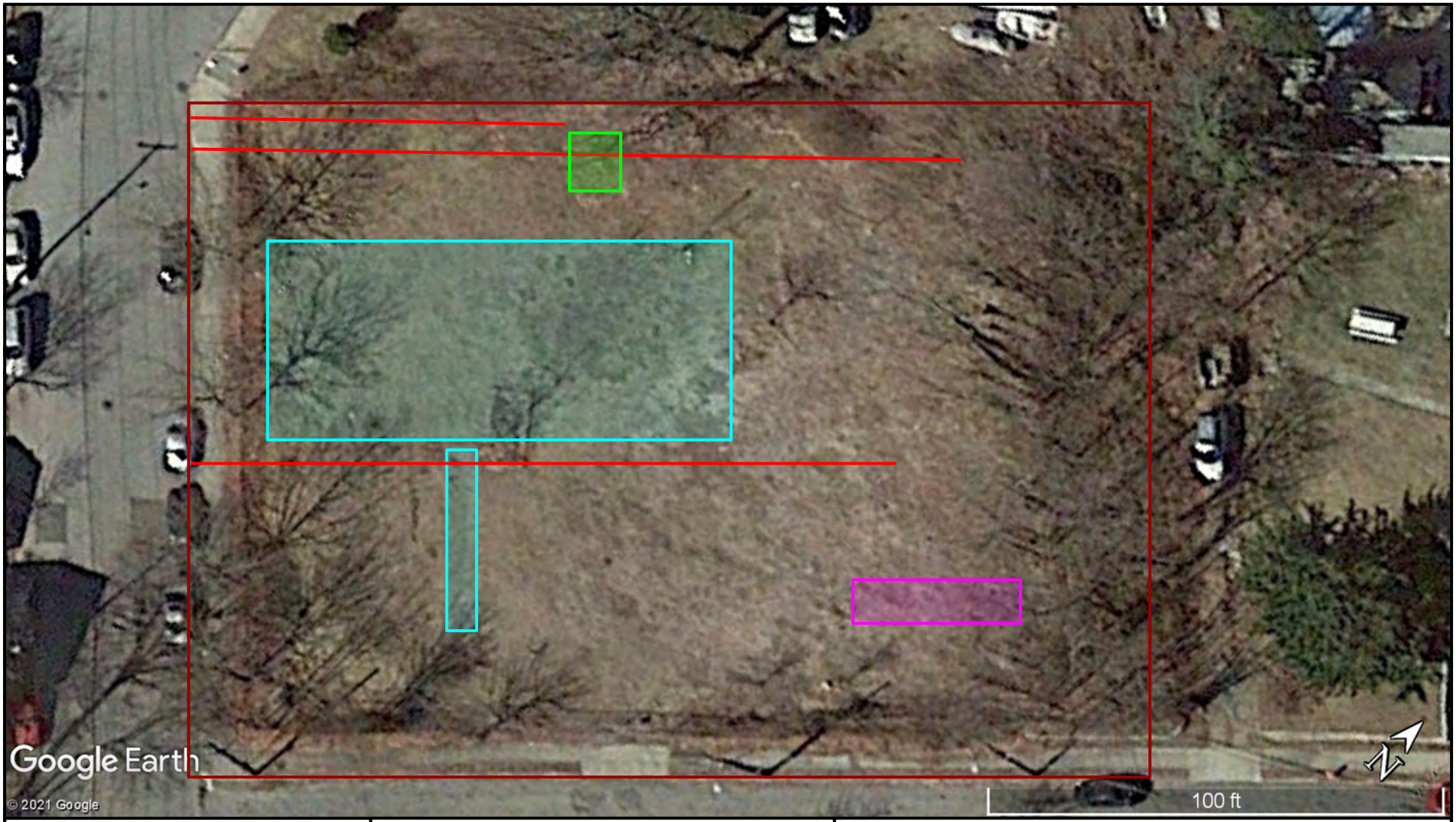
NOVA Geophysical Services

Subsurface Mapping Solutions
56-01 Marathon Parkway, # 765
Douglaston, New York 11362
Phone (347) 556-7787 * Fax (718) 261-1527
www.novagsi.com

Location Map

SITE:	**Industrial Property** 43 Hempstead Street, New London, Connecticut 06320
CLIENT:	Nobis
DATE:	May 6th, 2021
AUTH:	Chris Steinley

LEGEND



NOVA
Geophysical Services
Subsurface Mapping Solutions
56-01 Marathon Parkway, # 765
Douglaston, New York 11362
Phone (347) 556-7787 * Fax (718) 261-1527
www.novagsi.com

SURVEY PLAN

SITE:	**Industrial Property** 43 Hempstead Street, New London, Connecticut 06320
CLIENT:	Nobis
DATE:	May 6th, 2021
AUTH:	Chris Steinley

LEGEND

- Survey Area
- Former Utility
- Anomaly (Former Building Foundation)
- Anomaly (Potential UST)
- Anomaly (Flat Concrete Structure)

GEOPHYSICAL IMAGES

Industrial Site
43 Hempstead Street
New London, Connecticut 06320
May 6th, 2021

GEOPHYSICAL IMAGES

Industrial Site
43 Hempstead Street
New London, Connecticut 06320
May 6th, 2021

GEOPHYSICAL IMAGES

Industrial Site
43 Hempstead Street
New London, Connecticut 06320
May 6th, 2021

GEOPHYSICAL IMAGES

Industrial Site
43 Hempstead Street
New London, Connecticut 06320
May 6th, 2021

GEOPHYSICAL IMAGES

Industrial Site
43 Hempstead Street
New London, Connecticut 06320
May 6th, 2021

GEOPHYSICAL IMAGES

Industrial Site
43 Hempstead Street
New London, Connecticut 06320
May 6th, 2021

Soil Boring and Well Construction Logs

APPENDIX B

BORING LOG

Project:	43 Hempstead Street
Location:	New London, CT
Nobis Project No.:	93203.15
Boring No.:	MW-1R
Boring Location:	See site plan
Checked by:	J. Brunelle
Date Start:	August 10, 2021
Date Finish:	August 10, 2021
Contractor:	Drilex Environmental, Inc.
Driller:	
Nobis Rep.:	A.Epstein
Rig Type / Model:	Geoprobe / 7822 DT
Hammer Type:	N/A
Hammer Hoist:	N/A
Ground Surface Elev.:	
Datum:	

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
▽ 08/18/21	00:00	10.27	NA	15	1 Week

Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES
-2										Stick-Up Casing	
-1											
0											
	S-1	44	0-5		0				S-1A (16"): Brown and light brown, fine to medium SAND, little fine Gravel, trace Silt. Dry.	Concrete	
1										PVC Riser	
2					0				S-1B (28"): Brown, grey, and red, fine to medium SAND, some fine to coarse Gravel, trace Silt, Few brick fragments. Dry.	Filter Sand	
3								FILL			
4										Bentonite chips	
5								/ 5.0			
	S-2	36	5-10		0				S-2A (9"): Black and light grey, fine to medium SAND, some fine to coarse Gravel, trace Silt. Dry.		
6											
7					0			SILTY SAND AND GRAVEL	S-2B (27"): Brown, fine to medium SAND, little Silt, little fine Gravel. Moist.		
8											
9								/ 9.0			
10						▽				Filter Sand	
										10-Slot PVC	
11											
12											
13											
14											
15									Boring terminated at 15 feet.		
16											
17											

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring refusal at 9 feet, stepped off 10 feet and drove casing to 15 feet to install well.

2023-13 CONL Environmental Services for 43 Hempstead Street

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/4/21 09:58 - J:\93203.00 - START CONTRACT - TASK ORDER 03\93203.15 - 43_HEMPSTED_NEW_LONDON_TBA\TECHNICAL_DATA\BORING LOGS\43 HEMPSTEAD BORING LOGS.GPJ

BORING LOG

nobis

Project: 43 Hempstead Street

Location: New London, CT

Nobis Project No.: 93203.15

Boring No.: **B-2**

Boring Location: See site plan

Checked by:

Date Start: August 10, 2021

Date Finish: August 10, 2021

Contractor: Drilex Environmental, Inc.

Driller:

Nobis Rep.: A.Epstein

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Sample Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
1	S-1	40	0-5		0			FILL / 5.0	S-1: Brown, red, and black, fine to medium SAND, some fine to coarse Gravel, little Silt, Few brick, wood, and glass fragments. Dry.	
2										
3										
4										
5										
6	S-2	43	5-10		0.1			SILTY SAND / 13.0	S-2A (24"): Brown and light grey, fine to medium SAND, little fine Gravel, little Silt. Moist.	
7										
8					0				S-2B (19"): Light brown, fine to medium SAND, little fine Gravel, trace Silt. Moist.	
9										
10										
11	S-3	36	10-15		0				S-3A (12"): Brown and light grey, fine to medium SAND, little fine Gravel, little Silt. Moist.	
12					0				S-3B (24"): Orange-brown and tan, fine to medium SAND, little Silt. Moist.	
13										
14									Boring terminated at 13 feet.	
15										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Samples collected from 0-2 feet and 5-7 feet.

2023-13 CONL Environmental Services for 43 Hempstead Street

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/4/21 09:58 - J:\93203.00 - START CONTRACT - TASK ORDER 03\93203.15 - 43_HEMPSTED_NEW_LONDON_TBA\TECHNICAL_DATA\BORING LOGS\43 HEMPSTEAD BORING LOGS.GPJ

BORING LOG

nobis

Project: 43 Hempstead Street

Location: New London, CT

Nobis Project No.: 93203.15

Boring No.: **B-3**

Boring Location: See site plan

Checked by:

Date Start: August 10, 2021

Date Finish: August 10, 2021

Contractor: Drilex Environmental, Inc.

Driller:

Nobis Rep.: A.Epstein

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Sample Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
	S-1	30	0-5		0				S-1: Brown, fine to medium SAND, little fine Gravel, little Silt, Few glass fragments. Dry.	
1										
2										
3								FILL		
4										
5								/ 5.0		
	S-2	41	5-10		0				S-2A (28"): Brown, fine to medium SAND, little Silt. Moist.	
6										
7										
8					0				S-2B (13"): Orange-brown and light grey, fine to coarse SAND, trace Silt. Moist.	
9										
10										
	S-3	40	10-15		0			SILTY SAND	S-3: Brown, fine to coarse SAND, little fine Gravel, little Silt. Wet.	
11										
12										
13										
14										
15								/ 15.0		
16									Boring terminated at 15 feet.	
17										
18										
19										
20										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Samples collected from 0-2 feet and 3-5 feet.

2023-13 CONL Environmental Services for 43 Hempstead Street

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/4/21 09:58 - J:\93203.00 - START CONTRACT - TASK ORDER 03\93203.15 - 43_HEMPSTED_NEW_LONDON_TBA\TECHNICAL_DATA\BORING LOGS\43 HEMPSTEAD BORING LOGS.GPJ

BORING LOG

Project:	43 Hempstead Street
Location:	New London, CT
Nobis Project No.:	93203.15
Boring No.:	MW-4
Boring Location:	See site plan
Checked by:	J. Brunelle
Date Start:	August 10, 2021
Date Finish:	August 10, 2021
Contractor:	Drilex Environmental, Inc.
Driller:	
Nobis Rep.:	A.Epstein
Rig Type / Model:	Geoprobe / 7822 DT
Hammer Type:	N/A
Hammer Hoist:	N/A
Ground Surface Elev.:	
Datum:	

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
▽ 08/18/21	00:00	8.65	NA	15	1 Week

Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	WELL DETAIL	NOTES
-2										Stick-Up Casing	
-1											
0											
	S-1	41	0-5		0				S-1A (8"): Dark brown, fine to medium SAND, little fine Gravel, little Silt, Few roots and leaves. Dry.		
1											
					0			FILL	S-1B (28"): Black, brown, and red, fine to medium SAND, some fine to coarse Gravel, trace Silt, Few wood and brick fragments. Dry.	Concrete PVC Riser	
2											
										Filter Sand	
3								/ 3.0			
4					0				S-1C (5"): Dark brown, fine to medium SAND, little Silt. Moist.	Bentonite chips	
5											
	S-2	45	5-10		0				S-2A (25"): Brown and grey, fine to medium SAND, little Silt. Moist.		
6											
7											
8					0				S-2B (20"): Light brown, fine to coarse SAND, some fine to coarse Gravel, trace Silt. Moist.		
9						▽		SILTY SAND			
10										Filter Sand	
	S-3	53	10-15		0				S-3A (20"): Brown, fine to medium SAND, some Silt. Wet.	10-Slot PVC	
11											
12											
					0				S-3B (33"): Tan, fine to medium SAND, trace Silt. Wet.		
13											
14											
15								/ 15.0			
16									Boring terminated at 15 feet.		
17											

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Samples collected from 0-2 feet and 2-4 feet.

2023-13 CONL Environmental Services for 43 Hempstead Street

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/4/21 09:58 - J:\93203.00 - START CONTRACT - TASK ORDER 03\93203.15 - 43_HEMPSTED_NEW_LONDON_TBA\TECHNICAL_DATA\BORING LOGS\43 HEMPSTEAD BORING LOGS.GPJ

BORING LOG

Project:	43 Hempstead Street
Location:	New London, CT
Nobis Project No.:	93203.15
Boring No.:	MW-5
Boring Location:	See site plan
Checked by:	
Date Start:	August 9, 2021
Date Finish:	August 10, 2021
Contractor:	Drilex Environmental, Inc.
Driller:	
Nobis Rep.:	A.Epstein
Rig Type / Model:	Geoprobe / 7822 DT
Hammer Type:	N/A
Hammer Hoist:	N/A
Ground Surface Elev.:	
Datum:	

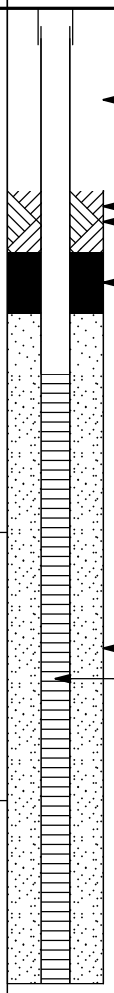
	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
∇ 08/18/21	00:00	10.65	NA	13	1 Week

Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)
-2								
-1								
0								
	S-1	38	0-5		0			S-1: Brown, fine to medium SAND, some fine to coarse Gravel, trace Silt. Dry.
1								
2								
3							GRAVELLY SAND	
4								
5								
	S-2	39	5-10		0		/ 5.6	S-2A (8"): Black and white, fine to coarse SAND, some fine to coarse Gravel, trace Silt. Dry.
6								
					0			S-2B (24"): Light brown, fine to medium SAND, little fine Gravel, trace Silt. Wet.
7								
8							SILTY SAND	
					0			S-3B (7"): Orange-brown and black, fine to medium SAND, little Silt. Wet.
9								
10							/ 10.0	
11						∇		
12								
13								Boring terminated at 13 feet.
14								
15								
16								
17								

WELL DETAIL



NOTES

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Boring refusal at 10 feet, offset well outside former foundation and installed well to 13 feet.
2) Samples collected from 0-2 feet and 8-10 feet.

2023-13 CONL Environmental Services for 43 Hempstead Street

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/4/21 09:58 - J:\93203.00 - START CONTRACT - TASK ORDER 03\93203.15 - 43_HEMPSTED_NEW_LONDON_TBA\TECHNICAL_DATA\BORING LOGS\43 HEMPSTEAD BORING LOGS.GPJ

BORING LOG

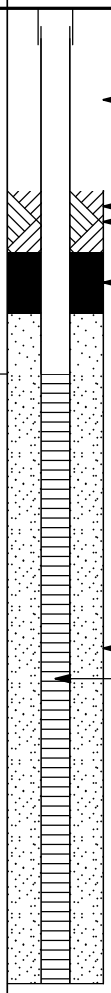
Project:	43 Hempstead Street
Location:	New London, CT
Nobis Project No.:	93203.15
Boring No.:	MW-6
Boring Location:	See site plan
Checked by:	
Date Start:	August 9, 2021
Date Finish:	August 9, 2021
Contractor:	Drilex Environmental, Inc.
Driller:	
Nobis Rep.:	A.Epstein
Rig Type / Model:	Geoprobe / 7822 DT
Hammer Type:	N/A
Hammer Hoist:	N/A
Ground Surface Elev.:	
Datum:	

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time
∇ 08/18/21	00:00	11.80	NA	13	1 Week

Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
-2									
-1									
0									
	S-1	43	0-5		0			S-1A (21"): Brown and black, fine to medium SAND, some fine to coarse Gravel, trace Silt. Dry.	
1									
2							FILL		
					0			S-1B (6"): Orange-brown, fine to medium SAND, little Silt. Dry.	
3					123		/ 3.0	S-1C (6"): Black, fine to medium SAND, some fine to coarse Gravel, trace Silt, Strong asphalt odor. Dry.	
					0			S-1D (10"): Orange-brown, fine to medium SAND, little fine Gravel, little Silt. Dry.	
4									
5									
	S-2	46	5-10		0			S-2: Orange-brown, fine to medium SAND, little fine Gravel, little Silt. Moist.	
6									
7									
8									
9							SILTY SAND AND GRAVEL		
10									
	S-3	53	10-15		0			Light grey, fine to coarse SAND, little fine Gravel, trace Silt. Wet.	
11									
12						∇			
13									
14									
15							/ 15.0		
16								Boring terminated at 15 feet.	
17									



Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Boring refusal at 9 feet, stepped off 10 feet and drove casing to 15 feet to set well.
2) Samples collected from 0-2 feet and 3-5 feet.

2023-13 CONL Environmental Services for 43 Hempstead Street

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/4/21 09:58 - J:\93203.00 - START CONTRACT - TASK ORDER 03\93203.15 - 43_HEMPSTED_NEW_LONDON_TBA\TECHNICAL_DATA\BORING LOGS\43 HEMPSTEAD BORING LOGS.GPJ

BORING LOG

nobis

Project: 43 Hempstead Street

Location: New London, CT

Nobis Project No.: 93203.15

Boring No.: **B-7**

Boring Location: See site plan

Checked by:

Date Start: August 9, 2021

Date Finish: August 9, 2021

Contractor: Drilex Environmental, Inc.

Driller:

Nobis Rep.: A.Epstein

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Sample Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
	S-1	31	0-5		0				S-1A (22"): Black and brown, fine to medium SAND, little fine Gravel, trace Silt. Dry.	
1										
2										
					0				S-1B (9"): Brown, fine to medium SAND, little Silt. Moist.	
3										
4										
5										
	S-2	36	5-10		0				S-2A (19"): Brown, fine to medium SAND, little Silt. Wet.	
6										
7										
					0			SILTY SAND	S-2B (17"): Brown, fine to coarse SAND, little fine Gravel, little Silt. Wet.	
8										
9										
10										
	S-3	60	10-15		0				S-3A (31"): Brown, fine to coarse SAND, little fine Gravel, little Silt. Wet.	
11										
12										
13										
					0				S-3B (29"): Light grey, fine to medium SAND, some Silt. Wet.	
14										
15								/ 15.0		
									Boring terminated at 15 feet.	
16										
17										
18										
19										
20										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Samples collected from 0-2 feet and 5-7 feet.

2023-13 CONL Environmental Services for 43 Hempstead Street

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/4/21 09:58 - J:\93203.00 - START CONTRACT - TASK ORDER 03\93203.15 - 43_HEMPSTED_NEW_LONDON_TBA\TECHNICAL_DATA\BORING LOGS\43 HEMPSTEAD BORING LOGS.GPJ

BORING LOG

nobis

Project: 43 Hempstead Street

Location: New London, CT

Nobis Project No.: 93203.15

Boring No.: **B-8**

Boring Location: See site plan

Checked by:

Date Start: August 9, 2021

Date Finish: August 9, 2021

Contractor: Drilex Environmental, Inc.

Driller:

Nobis Rep.: A.Epstein

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S-1	46	0-5		0				S-1A (13"): Black, brown, and red, fine to medium SAND, little fine Gravel, trace Silt, Few brick and glass fragments. Dry.	
1										
2					0				S-1B (27"): Brown, fine to medium SAND, little Silt. Moist.	
3								FILL		
4					0				S-1C (6"): White, crushed rock. Dry.	
5								/ 5.0		
	S-2	60	5-10		0				S-2A (31"): Brown and dark brown, fine to medium SAND, trace Silt. Wet.	
6										
7										
8										
9					0				S-2B (29"): Brown, fine to medium SAND, some Silt. Wet.	
10								SILTY SAND		
	S-3	60	10-15		0				S-3: Brown and light grey, fine to coarse SAND, some fine to coarse Gravel, little Silt. Wet.	
11										
12										
13										
14										
15								/ 15.0		
16									Boring terminated at 15 feet.	
17										
18										
19										
20										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Samples collected from 0-2 feet and 5-7 feet.

2023-13 CONL Environmental Services for 43 Hempstead Street

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/4/21 09:58 - J:\93203.00 - START CONTRACT - TASK ORDER 03\93203.15 - 43_HEMPSTED_NEW_LONDON_TBA\TECHNICAL_DATA\BORING LOGS\43 HEMPSTEAD BORING LOGS.GPJ

BORING LOG

nobis

Project: 43 Hempstead Street

Location: New London, CT

Nobis Project No.: 93203.15

Boring No.: **B-9**

Boring Location: See site plan

Checked by:

Date Start: August 9, 2021

Date Finish: August 9, 2021

Contractor: Drilex Environmental, Inc.

Driller:

Nobis Rep.: A.Epstein

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Sample Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S-1	42	0-5		0			FILL / 5.0	S-1: Black, brown, and grey, fine to medium SAND, some fine to coarse Gravel, trace Silt. Dry.	
1										
2										
3										
4										
5										
	S-2	42	5-9		0			SILTY SAND AND GRAVEL / 9.0	S-2: Tan and light grey, fine to coarse SAND, little fine Gravel, little Silt, Wet at 31".	
6										
7										
8										
9									Boring terminated at 9 feet.	
10										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Samples collected from 0-2 feet and 3-5 feet.

2023-13 CONL Environmental Services for 43 Hempstead Street

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/4/21 09:58 - J:\93203.00 - START CONTRACT - TASK ORDER 03\93203.15 - 43_HEMPSTED_NEW_LONDON_TBA\TECHNICAL_DATA\BORING LOGS\43 HEMPSTEAD BORING LOGS.GPJ

BORING LOG

nobis

Project: 43 Hempstead Street

Location: New London, CT

Nobis Project No.: 93203.15

Boring No.: **B-10**

Boring Location: See site plan

Checked by:

Date Start: August 9, 2021

Date Finish: August 9, 2021

Contractor: Drilex Environmental, Inc.

Driller:

Nobis Rep.: A.Epstein

Rig Type / Model: Geoprobe / 7822 DT

Hammer Type: N/A

Hammer Hoist: N/A

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)	N/A	1.75 x 60
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S-1	52	0-5		0				S-1A (28"): Black, fine to medium SAND, some fine to coarse Gravel, trace Silt, Few brick fragments. Dry.	
1										
2										
3					0			FILL	S-1B (4"): Brown, fine to medium SAND, little fine Gravel, little Silt. Dry.	
					0				S-1C (4"): Black, fine to medium SAND, little fine Gravel, trace Silt. Dry.	
4					0				S-1D (16"): Orange-brown and tan, fine to medium SAND, little fine Gravel, trace Silt. Dry.	
5								/ 5.0		
	S-2	24	5-7		0				Orange-brown and tan, fine to medium SAND, little fine Gravel, trace Silt, Rock fragments in tip of split spoon at 7'. Dry.	
6								GRAVELLY SAND		
7								/ 7.0		
									Boring terminated at 7 feet.	
8										
9										
10										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Samples collected from 0-2 feet and 2-4 feet.

2023-13 CONL Environmental Services for 43 Hempstead Street

Soil descriptions, and lithology, are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

BOREHOLE LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/4/21 09:58 - J:\93203.00 - START CONTRACT - TASK ORDER 03\93203.15 - 43_HEMPSTED_NEW_LONDON_TBA\TECHNICAL_DATA\BORING LOGS\43 HEMPSTEAD BORING LOGS.GPJ

Laboratory Data Reports

APPENDIX C

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Nobis Engineering, Inc.

43 Hempstead Street, New London, CT

93203.15 PO#93203.15/200

SGS Job Number: JD29693

Sampling Dates: 08/09/21 - 08/10/21

Report to:

Nobis Engineering, Inc.
585 Middlesex Street
Lowell, MA 01851
jbrunelle@nobis-group.com; ARoy@nobis-group.com; gglennon@nobis-group.com
ATTN: Jeff Brunelle

Total number of pages in report: 371

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary **4**
Section 2: Case Narrative/Conformance Summary **6**
Section 3: Summary of Hits **13**
Section 4: Sample Results **27**
4.1: JD29693-1: B-10-0002 28
4.2: JD29693-2: B-10-0204 36
4.3: JD29693-3: B-7-0002 44
4.4: JD29693-4: B-7-0507 52
4.5: JD29693-5: B-9-0002 60
4.6: JD29693-6: B-9-0305 68
4.7: JD29693-7: B-8-0002 76
4.8: JD29693-8: FD-01 84
4.9: JD29693-9: B-8-0507 92
4.10: JD29693-10: MW-6-0002 100
4.11: JD29693-11: MW-6-0305 108
4.12: JD29693-12: MW-5-0002 116
4.13: JD29693-13: MW-05-0810 124
4.14: JD29693-14: TB-01 132
4.15: JD29693-15: MW-4-0002 135
4.16: JD29693-16: MW-4-0204 143
4.17: JD29693-17: MW-1R-0002 151
4.18: JD29693-18: MW-1R-0406 159
4.19: JD29693-19: B-2-0002 168
4.20: JD29693-20: B-2-0507 176
4.21: JD29693-21: B-3-0002 184
4.22: JD29693-22: B-3-0305 192
Section 5: Misc. Forms **200**
5.1: Chain of Custody 201
5.2: RCP Form 204
5.3: Sample Tracking Chronicle 205
5.4: QC Evaluation: CT RCP Limits 213
Section 6: MS Volatiles - QC Data Summaries **244**
6.1: Method Blank Summary 245
6.2: Blank Spike Summary 260
6.3: Matrix Spike/Matrix Spike Duplicate Summary 275
6.4: Internal Standard Area Summaries 278
6.5: Surrogate Recovery Summaries 283
Section 7: MS Semi-volatiles - QC Data Summaries **285**
7.1: Method Blank Summary 286
7.2: Blank Spike Summary 288
7.3: Matrix Spike/Matrix Spike Duplicate Summary 290
7.4: Internal Standard Area Summaries 292

Table of Contents

7.5: Surrogate Recovery Summaries 299
Section 8: GC/LC Semi-volatiles - QC Data Summaries 301
8.1: Method Blank Summary 302
8.2: Blank Spike Summary 313
8.3: Blank Spike/Blank Spike Duplicate Summary 319
8.4: Matrix Spike/Matrix Spike Duplicate Summary 320
8.5: Internal Standard Area Summaries 324
8.6: DDT/Endrin Breakdown Checks 330
8.7: Surrogate Recovery Summaries 340
Section 9: Metals Analysis - QC Data Summaries 345
9.1: Prep QC MP28177: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Ag,Tl,V,Zn 346
9.2: Prep QC MP28178: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Ag,Tl,V,Zn 358
9.3: Prep QC MP28186: Hg 366
9.4: Prep QC MP28187: Hg 370

SGS North America Inc.

Sample Summary

Nobis Engineering, Inc.

Job No: JD29693

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the RL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD29693-1	08/09/21	09:15	AE	08/10/21	SO	Soil	B-10-0002
JD29693-2	08/09/21	09:20	AE	08/10/21	SO	Soil	B-10-0204
JD29693-3	08/09/21	09:45	AE	08/10/21	SO	Soil	B-7-0002
JD29693-4	08/09/21	09:50	AE	08/10/21	SO	Soil	B-7-0507
JD29693-5	08/09/21	10:05	AE	08/10/21	SO	Soil	B-9-0002
JD29693-6	08/09/21	10:10	AE	08/10/21	SO	Soil	B-9-0305
JD29693-7	08/09/21	10:20	AE	08/10/21	SO	Soil	B-8-0002
JD29693-8	08/09/21	16:00	AE	08/10/21	SO	Soil	FD-01
JD29693-9	08/09/21	10:25	AE	08/10/21	SO	Soil	B-8-0507
JD29693-10	08/09/21	12:10	AE	08/10/21	SO	Soil	MW-6-0002
JD29693-11	08/09/21	12:15	AE	08/10/21	SO	Soil	MW-6-0305
JD29693-12	08/09/21	13:30	AE	08/10/21	SO	Soil	MW-5-0002

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SGS North America Inc.

Sample Summary
(continued)

Nobis Engineering, Inc.

Job No: JD29693

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD29693-13	08/09/21	13:40	AE	08/10/21	SO	Soil	MW-05-0810
JD29693-14	08/10/21	13:30	AE	08/10/21	SO	Trip Blank Soil	TB-01
JD29693-15	08/10/21	09:15	AE	08/10/21	SO	Soil	MW-4-0002
JD29693-16	08/10/21	09:25	AE	08/10/21	SO	Soil	MW-4-0204
JD29693-17	08/10/21	11:00	AE	08/10/21	SO	Soil	MW-1R-0002
JD29693-18	08/10/21	11:05	AE	08/10/21	SO	Soil	MW-1R-0406
JD29693-19	08/10/21	13:05	AE	08/10/21	SO	Soil	B-2-0002
JD29693-19D	08/10/21	13:05	AE	08/10/21	SO	Soil Dup/MSD	B-2-0002
JD29693-19S	08/10/21	13:05	AE	08/10/21	SO	Soil Matrix Spike	B-2-0002
JD29693-20	08/10/21	12:55	AE	08/10/21	SO	Soil	B-2-0507
JD29693-21	08/10/21	13:25	AE	08/10/21	SO	Soil	B-3-0002
JD29693-22	08/10/21	13:30	AE	08/10/21	SO	Soil	B-3-0305

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Nobis Engineering, Inc.	**Job No:**	JD29693
Site:	43 Hempstead Street, New London, CT	**Report Date**	8/30/2021 2:35:59 PM

On 08/10/2021, 21 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.7 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD29693 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260D

Matrix: SO **Batch ID:** V1C7850

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JD29693-9 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the initial and continuing calibrations.
- JD29693-1 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the initial and continuing calibrations.
- JD29693-10 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the initial and continuing calibrations.
- JD29693-8 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the initial and continuing calibrations.
- JD29693-7 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the initial and continuing calibrations.
- JD29693-5 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the initial and continuing calibrations.
- JD29693-2 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the initial and continuing calibrations.
- JD29693-6 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the initial and continuing calibrations.
- JD29693-12 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the initial and continuing calibrations.
- JD29693-3 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the initial and continuing calibrations.
- JD29693-4 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the initial and continuing calibrations.

Matrix: SO **Batch ID:** V1C7851

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JD29693-15 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the inital and continuing calibrations.
- JD29693-20 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the inital and continuing calibrations.
- JD29693-16 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the inital and continuing calibrations.
- JD29693-13 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the inital and continuing calibrations.
- JD29693-11 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the inital and continuing calibrations.
- JD29693-21 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the inital and continuing calibrations.
- JD29693-22 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the inital and continuing calibrations.
- JD29693-17 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the inital and continuing calibrations.

Matrix: SO **Batch ID:** V1C7853

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD29693-19MS, JD29693-19MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD29693-19 for Dichlorodifluoromethane: Associated CCV outside of control limits low. This compound is outside the RCP limits in the associated BS biased low.

MS Volatiles By Method SW846 8260D

Matrix: SO **Batch ID:** V1C7853

- JD29693-19 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the inital and continuing calibrations.

Matrix: SO **Batch ID:** V1C7854

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JD29693-18 for Dichlorodifluoromethane: Associated CCV outside of control limits low.
- JD29693-18 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the inital and continuing calibrations.

Matrix: SO **Batch ID:** V1C7860

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JD29693-14 for 2-Butanone (MEK): Response factor for this compound is below 0.05 in the initial and continuing calibrations.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: SO	**Batch ID:** OP34845A

- All samples were extracted within the recommended method holding time.
- Sample(s) JD29693-1MS, JD29693-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Duplicate Recovery(s) for Benzo(a)anthracene, Fluoranthene, Phenanthrene, Pyrene, Acenaphthylene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike Recovery(s) for Acenaphthylene, Benzo(a)anthracene, Benzo(a)pyrene, Fluorene, Naphthalene, Anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MSD for Acenaphthene, Acenaphthylene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluorene, Indeno(1,2,3-cd)pyrene are outside control limits for sample OP34845A-MSDA. Outside of in house control limits
- JD29693-1: Elevated detection limit due to low volume of sample extracted.
- JD29693-15 for 2-Fluorobiphenyl: Outside of in house control limits but within RCP criteria limits.
- JD29693-8 for 2-Fluorobiphenyl: Outside of in house control limits due to dilution, but within reasonable method recovery limits.
- JD29693-15 for 2-Fluorobiphenyl: Outside of in house control limits but within RCP criteria limits.
- OP34845A-MSDA for Indeno(1,2,3-cd)pyrene: Outside of in house control limits.
- JD29693-11 for 2-Fluorobiphenyl: Outside of in house control limits but within RCP criteria limits.
- Only PAH reported.

Matrix: SO	**Batch ID:** OP34846A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29693-19MS, JD29693-19MSD were used as the QC samples indicated.
- Matrix Spike Duplicate Recovery(s) for Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Pyrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike Duplicate Recovery(s) for Benzo(a)pyrene, Benzo(g,h,i)perylene, Indeno(1,2,3-cd)pyrene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Chrysene, Fluoranthene, Naphthalene , Phenanthrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MSD for Dibenzo(a,h)anthracene are outside control limits for sample OP34846A-MSDA.
- JD29693-17: Dilution required due to viscosity of the extract matrix.
- JD29693-21: Dilution required due to viscosity of the extract matrix.
- Only PAH reported.

GC/LC Semi-volatiles By Method CT-ETPH

Matrix: SO	**Batch ID:** OP34853

- All samples were extracted within the recommended method holding time.
- Sample(s) JD29693-19MS, JD29693-19MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for CT-DRO (C9-C36) are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Matrix: SO	**Batch ID:** OP34854

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO **Batch ID:** OP34849

- All samples were extracted within the recommended method holding time.
- Sample(s) JD29693-2MS, JD29693-2MSD, OP34849-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- JD29693-7 for 4,4'-DDD: More than 40 % RPD for detected concentrations between the two GC columns.
- JD29693-10 for 4,4'-DDE: More than 40 % RPD for detected concentrations between the two GC columns.
- JD29693-11 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD29693-11 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JD29693-7 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD29693-7 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD29693-11 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD29693-1 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD29693-5 for 4,4'-DDT: More than 40 % RPD for detected concentrations between the two GC columns.
- JD29693-11 for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JD29693-10 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- OP34849-BS1 for Endosulfan-I: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.
- JD29693-11 for 4,4'-DDD: More than 40 % RPD for detected concentrations between the two GC columns.

Matrix: SO **Batch ID:** OP34851

- All samples were extracted within the recommended method holding time.
- Sample(s) JD29693-19MS, JD29693-19MSD, OP34851-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for beta-BHC are outside control limits. Outside control limits due to matrix interference.
- JD29693-18: Confirmation run.
- JD29693-17 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD29693-22 for 4,4'-DDD: More than 40 % RPD for detected concentrations between the two GC columns.
- JD29693-18 for 4,4'-DDD: More than 40 % RPD for detected concentrations between the two GC columns.
- JD29693-19 for 4,4'-DDD: More than 40 % RPD for detected concentrations between the two GC columns.
- JD29693-18 for 4,4'-DDE: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.
- JD29693-21 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD29693-22 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- Not all RL meet requirement.
- Not all RL meet requirement.
- Not all RL meets requirement.

GC/LC Semi-volatiles By Method SW846 8082A

Matrix: SO **Batch ID:** OP34850

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Aroclor 1016, Aroclor 1260 are outside control limits.
- JD29693-5 for Aroclor 1260: Associated CCV outside of control limits high, sample was ND.
- JD29693-12 for Aroclor 1016: This compound outside control limits biased high in the associated BS.
- JD29693-4 for Aroclor 1016: This compound outside control limits biased high in the associated BS.
- JD29693-9 for Aroclor 1260: This compound outside control limits biased high in the associated BS.
- JD29693-6 for Aroclor 1260: This compound outside control limits biased high in the associated BS.
- JD29693-9 for Aroclor 1016: This compound outside control limits biased high in the associated BS.
- JD29693-12 for Aroclor 1260: This compound outside control limits biased high in the associated BS.
- JD29693-13 for Aroclor 1016: This compound outside control limits biased high in the associated BS.
- JD29693-13 for Aroclor 1260: This compound outside control limits biased high in the associated BS.
- JD29693-11 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD29693-11 for Aroclor 1016: This compound outside control limits biased high in the associated BS.
- JD29693-10 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD29693-10 for Aroclor 1016: This compound outside control limits biased high in the associated BS.
- JD29693-10 for Aroclor 1260: This compound outside control limits biased high in the associated BS.
- JD29693-9 for Decachlorobiphenyl: Outside program requirements due to matrix interference.
- JD29693-6 for Aroclor 1016: This compound outside control limits biased high in the associated BS.
- JD29693-11 for Aroclor 1260: This compound outside control limits biased high in the associated BS.
- OP34850-BS1 for Aroclor 1260: Outside of in house control limits.
- OP34850-BS1 for Decachlorobiphenyl: Outside of in house control limits.
- OP34850-BS1 for Tetrachloro-m-xylene: Outside of in house control limits.
- JD29693-2 for Decachlorobiphenyl: Outside program requirements due to matrix interference.
- JD29693-2 for Aroclor 1016: This compound outside control limits biased high in the associated BS.
- JD29693-2 for Aroclor 1260: This compound outside control limits biased high in the associated BS.
- JD29693-4 for Aroclor 1260: This compound outside control limits biased high in the associated BS.
- OP34850-BS1 for Aroclor 1016: Outside of in house control limits.

Matrix: SO **Batch ID:** OP34852

- All samples were extracted within the recommended method holding time.
- Sample(s) JD29693-19MS, JD29693-19MSD, OP34852-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29693-15 have surrogates outside control limits. Probable cause due to matrix interference.
- JD29693-15 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD29693-17 for Decachlorobiphenyl: Outside program requirements due to matrix interference.

Matrix: SO **Batch ID:** OP34955

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JD29693-1 for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD29693-8 for Aroclor 1254: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

GC/LC Semi-volatiles By Method SW846 8082A

Matrix: SO	Batch ID: OP34955

- JD29693-7 for Aroclor 1254: Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

Metals Analysis By Method SW846 6010D

Matrix: SO	Batch ID: MP28177

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29693-19PS, JD29693-19SDL, JD29693-19MS, JD29693-19MSD were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Antimony, Zinc are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Antimony, Copper, Zinc are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Recovery(s) for Lead are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for MSD for Lead, Zinc are outside control limits for sample MP28177-S2. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Cadmium, Selenium, Thallium are outside control limits for sample MP28177-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- JD29693-15 for Antimony: Elevated detection limit due to dilution required for high interfering element.
- MP28177-SD1 for Zinc: Serial dilution indicates possible matrix interference.
- JD29693-11 for Lead: Elevated detection limit due to dilution required for high interfering element.
- JD29693-11 for Copper: Elevated detection limit due to dilution required for high interfering element.
- JD29693-11 for Cadmium: Elevated detection limit due to dilution required for high interfering element.
- JD29693-11 for Beryllium: Elevated detection limit due to dilution required for high interfering element.
- JD29693-11 for Arsenic: Elevated detection limit due to dilution required for high interfering element.
- JD29693-11 for Antimony: Elevated detection limit due to dilution required for high interfering element.
- JD29693-11 for Selenium: Elevated detection limit due to dilution required for high interfering element.
- JD29693-16 for Zinc: Elevated detection limit due to dilution required for high interfering element.
- JD29693-11 for Vanadium: Elevated detection limit due to dilution required for high interfering element.
- JD29693-11 for Silver: Elevated detection limit due to dilution required for high interfering element.

Matrix: SO	Batch ID: MP28178

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD30032-2PS, JD30032-2SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Arsenic, Beryllium, Chromium, Nickel, Vanadium, Zinc are outside control limits for sample MP28178-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP28178-SD1 for Barium: Serial dilution indicates possible matrix interference.

Metals Analysis By Method SW846 7471B

Matrix: SO	Batch ID: MP28186

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29693-19MS, JD29693-19MSD were used as the QC samples for metals.

Matrix: SO	Batch ID: MP28187

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO	Batch ID: GN20765

- The data for SM2540 G 18TH ED MOD meets quality control requirements.

Matrix: SO	Batch ID: GN20772

- Sample(s) JD29693-19DUP were used as the QC samples for Solids, Percent.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD29693-1	**B-10-0002**					
Acetone		0.0117	0.0083		mg/kg	SW846 8260D
Acenaphthylene [a]		0.192	0.020		mg/kg	SW846 8270E BY SIM
Anthracene [a]		0.101	0.020		mg/kg	SW846 8270E BY SIM
Benzo(a)anthracene [a]		0.436	0.020		mg/kg	SW846 8270E BY SIM
Benzo(a)pyrene [a]		0.608	0.020		mg/kg	SW846 8270E BY SIM
Benzo(b)fluoranthene [a]		0.932	0.020		mg/kg	SW846 8270E BY SIM
Benzo(g,h,i)perylene [a]		0.786	0.020		mg/kg	SW846 8270E BY SIM
Benzo(k)fluoranthene [a]		0.326	0.020		mg/kg	SW846 8270E BY SIM
Chrysene [a]		0.563	0.020		mg/kg	SW846 8270E BY SIM
Dibenzo(a,h)anthracene [a]		0.179	0.020		mg/kg	SW846 8270E BY SIM
Fluoranthene [a]		0.707	0.020		mg/kg	SW846 8270E BY SIM
Fluorene [a]		0.0303	0.020		mg/kg	SW846 8270E BY SIM
Indeno(1,2,3-cd)pyrene [a]		0.686	0.020		mg/kg	SW846 8270E BY SIM
Naphthalene [a]		0.0481	0.020		mg/kg	SW846 8270E BY SIM
Phenanthrene [a]		0.474	0.020		mg/kg	SW846 8270E BY SIM
Pyrene [a]		0.713	0.020		mg/kg	SW846 8270E BY SIM
CT-DRO (C9-C36)		197	7.6		mg/kg	CT-ETPH
Aroclor 1254		3.84	0.28		mg/kg	SW846 8082A
Arsenic		16.7	2.4		mg/kg	SW846 6010D
Barium		107	24		mg/kg	SW846 6010D
Beryllium		0.62	0.24		mg/kg	SW846 6010D
Cadmium		1.2	0.61		mg/kg	SW846 6010D
Chromium		17.3	1.2		mg/kg	SW846 6010D
Copper		35.7	3.0		mg/kg	SW846 6010D
Lead		143	2.4		mg/kg	SW846 6010D
Mercury		0.16	0.033		mg/kg	SW846 7471B
Nickel		29.5	4.9		mg/kg	SW846 6010D
Silver		0.72	0.61		mg/kg	SW846 6010D
Vanadium		180	6.1		mg/kg	SW846 6010D
Zinc		107	6.1		mg/kg	SW846 6010D
JD29693-2	**B-10-0204**					
Acenaphthylene		0.00868	0.0036		mg/kg	SW846 8270E BY SIM
Anthracene		0.00539	0.0036		mg/kg	SW846 8270E BY SIM
Benzo(a)anthracene		0.0365	0.0036		mg/kg	SW846 8270E BY SIM
Benzo(a)pyrene		0.0690	0.0036		mg/kg	SW846 8270E BY SIM
Benzo(b)fluoranthene		0.109	0.0036		mg/kg	SW846 8270E BY SIM
Benzo(g,h,i)perylene		0.124	0.0036		mg/kg	SW846 8270E BY SIM
Benzo(k)fluoranthene		0.0392	0.0036		mg/kg	SW846 8270E BY SIM
Chrysene		0.0561	0.0036		mg/kg	SW846 8270E BY SIM
Dibenzo(a,h)anthracene		0.0231	0.0036		mg/kg	SW846 8270E BY SIM
Fluoranthene		0.0458	0.0036		mg/kg	SW846 8270E BY SIM

Summary of Hits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Indeno(1,2,3-cd)pyrene	0.103	0.0036		mg/kg	SW846 8270E BY SIM
Naphthalene	0.00633	0.0036		mg/kg	SW846 8270E BY SIM
Phenanthrene	0.0394	0.0036		mg/kg	SW846 8270E BY SIM
Pyrene	0.0483	0.0036		mg/kg	SW846 8270E BY SIM
CT-DRO (C9-C36)	12.4	6.7		mg/kg	CT-ETPH
Arsenic	41.7	2.2		mg/kg	SW846 6010D
Barium	49.6	22		mg/kg	SW846 6010D
Beryllium	0.59	0.22		mg/kg	SW846 6010D
Chromium	10.4	1.1		mg/kg	SW846 6010D
Copper	20.9	2.7		mg/kg	SW846 6010D
Lead	26.4	2.2		mg/kg	SW846 6010D
Mercury	0.056	0.036		mg/kg	SW846 7471B
Nickel	21.1	4.4		mg/kg	SW846 6010D
Selenium	2.4	2.2		mg/kg	SW846 6010D
Silver	0.76	0.55		mg/kg	SW846 6010D
Thallium	2.0	1.1		mg/kg	SW846 6010D
Vanadium	407	5.5		mg/kg	SW846 6010D
Zinc	29.8	5.5		mg/kg	SW846 6010D
JD29693-3 B-7-0002					
Acenaphthene	0.00497	0.0038		mg/kg	SW846 8270E BY SIM
Acenaphthylene	0.0354	0.0038		mg/kg	SW846 8270E BY SIM
Anthracene	0.0338	0.0038		mg/kg	SW846 8270E BY SIM
Benzo(a)anthracene	0.149	0.0038		mg/kg	SW846 8270E BY SIM
Benzo(a)pyrene	0.154	0.0038		mg/kg	SW846 8270E BY SIM
Benzo(b)fluoranthene	0.265	0.019		mg/kg	SW846 8270E BY SIM
Benzo(g,h,i)perylene	0.122	0.0038		mg/kg	SW846 8270E BY SIM
Benzo(k)fluoranthene	0.0767	0.0038		mg/kg	SW846 8270E BY SIM
Chrysene	0.173	0.0038		mg/kg	SW846 8270E BY SIM
Dibenzo(a,h)anthracene	0.0351	0.0038		mg/kg	SW846 8270E BY SIM
Fluoranthene	0.262	0.019		mg/kg	SW846 8270E BY SIM
Fluorene	0.00831	0.0038		mg/kg	SW846 8270E BY SIM
Indeno(1,2,3-cd)pyrene	0.123	0.0038		mg/kg	SW846 8270E BY SIM
Naphthalene	0.0180	0.0038		mg/kg	SW846 8270E BY SIM
Phenanthrene	0.142	0.0038		mg/kg	SW846 8270E BY SIM
Pyrene	0.258	0.019		mg/kg	SW846 8270E BY SIM
CT-DRO (C9-C36)	91.2	7.4		mg/kg	CT-ETPH
Aroclor 1254	0.335	0.055		mg/kg	SW846 8082A
Arsenic	9.8	2.3		mg/kg	SW846 6010D
Barium	149	23		mg/kg	SW846 6010D
Beryllium	0.62	0.23		mg/kg	SW846 6010D
Cadmium	0.74	0.56		mg/kg	SW846 6010D
Chromium	13.2	1.1		mg/kg	SW846 6010D
Copper	67.3	2.8		mg/kg	SW846 6010D

Summary of Hits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Lead		449	2.3		mg/kg	SW846 6010D
Mercury		0.65	0.033		mg/kg	SW846 7471B
Nickel		11.7	4.5		mg/kg	SW846 6010D
Silver		0.78	0.56		mg/kg	SW846 6010D
Vanadium		35.2	5.6		mg/kg	SW846 6010D
Zinc		217	5.6		mg/kg	SW846 6010D
JD29693-4	**B-7-0507**					
Acetone		0.0078	0.0057		mg/kg	SW846 8260D
Arsenic		3.1	2.5		mg/kg	SW846 6010D
Barium		38.8	25		mg/kg	SW846 6010D
Beryllium		0.54	0.25		mg/kg	SW846 6010D
Chromium		15.1	1.2		mg/kg	SW846 6010D
Copper		5.7	3.1		mg/kg	SW846 6010D
Lead		7.3	2.5		mg/kg	SW846 6010D
Nickel		7.3	5.0		mg/kg	SW846 6010D
Silver		0.69	0.62		mg/kg	SW846 6010D
Vanadium		24.9	6.2		mg/kg	SW846 6010D
Zinc		20.6	6.2		mg/kg	SW846 6010D
JD29693-5	**B-9-0002**					
Acenaphthylene		0.00537	0.0038		mg/kg	SW846 8270E BY SIM
Anthracene		0.00619	0.0038		mg/kg	SW846 8270E BY SIM
Benzo(a)anthracene		0.0334	0.0038		mg/kg	SW846 8270E BY SIM
Benzo(a)pyrene		0.0390	0.0038		mg/kg	SW846 8270E BY SIM
Benzo(b)fluoranthene		0.0594	0.0038		mg/kg	SW846 8270E BY SIM
Benzo(g,h,i)perylene		0.0353	0.0038		mg/kg	SW846 8270E BY SIM
Benzo(k)fluoranthene		0.0219	0.0038		mg/kg	SW846 8270E BY SIM
Chrysene		0.0378	0.0038		mg/kg	SW846 8270E BY SIM
Dibenzo(a,h)anthracene		0.00849	0.0038		mg/kg	SW846 8270E BY SIM
Fluoranthene		0.0499	0.0038		mg/kg	SW846 8270E BY SIM
Indeno(1,2,3-cd)pyrene		0.0334	0.0038		mg/kg	SW846 8270E BY SIM
Phenanthrene		0.0270	0.0038		mg/kg	SW846 8270E BY SIM
Pyrene		0.0517	0.0038		mg/kg	SW846 8270E BY SIM
CT-DRO (C9-C36)		38.1	7.3		mg/kg	CT-ETPH
4,4'-DDT [b]		0.0082	0.00073		mg/kg	SW846 8081B
Arsenic		8.2	2.3		mg/kg	SW846 6010D
Barium		43.1	23		mg/kg	SW846 6010D
Beryllium		0.57	0.23		mg/kg	SW846 6010D
Chromium		13.1	1.2		mg/kg	SW846 6010D
Copper		16.7	2.9		mg/kg	SW846 6010D
Lead		46.1	2.3		mg/kg	SW846 6010D
Mercury		0.088	0.030		mg/kg	SW846 7471B

Summary of Hits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Nickel		15.7	4.7		mg/kg	SW846 6010D
Silver		0.67	0.59		mg/kg	SW846 6010D
Vanadium		88.7	5.9		mg/kg	SW846 6010D
Zinc		57.3	5.9		mg/kg	SW846 6010D
JD29693-6	**B-9-0305**					
Acetone		0.010	0.0060		mg/kg	SW846 8260D
Benzo(a)pyrene		0.127	0.0035		mg/kg	SW846 8270E BY SIM
Benzo(b)fluoranthene		0.0272	0.0035		mg/kg	SW846 8270E BY SIM
Benzo(g,h,i)perylene		0.0785	0.0035		mg/kg	SW846 8270E BY SIM
Chrysene		0.0554	0.0035		mg/kg	SW846 8270E BY SIM
Dibenzo(a,h)anthracene		0.0103	0.0035		mg/kg	SW846 8270E BY SIM
Fluoranthene		0.00419	0.0035		mg/kg	SW846 8270E BY SIM
Indeno(1,2,3-cd)pyrene		0.0150	0.0035		mg/kg	SW846 8270E BY SIM
Naphthalene		0.00632	0.0035		mg/kg	SW846 8270E BY SIM
Phenanthrene		0.0234	0.0035		mg/kg	SW846 8270E BY SIM
Pyrene		0.0231	0.0035		mg/kg	SW846 8270E BY SIM
CT-DRO (C9-C36)		59.0	6.4		mg/kg	CT-ETPH
Arsenic		4.1	2.2		mg/kg	SW846 6010D
Barium		23.3	22		mg/kg	SW846 6010D
Beryllium		0.71	0.22		mg/kg	SW846 6010D
Chromium		13.8	1.1		mg/kg	SW846 6010D
Copper		9.5	2.7		mg/kg	SW846 6010D
Lead		5.7	2.2		mg/kg	SW846 6010D
Nickel		18.0	4.3		mg/kg	SW846 6010D
Silver		0.77	0.54		mg/kg	SW846 6010D
Vanadium		170	5.4		mg/kg	SW846 6010D
Zinc		51.1	5.4		mg/kg	SW846 6010D
JD29693-7	**B-8-0002**					
Acenaphthene		0.0259	0.0041		mg/kg	SW846 8270E BY SIM
Acenaphthylene		0.0597	0.0041		mg/kg	SW846 8270E BY SIM
Anthracene		0.106	0.0041		mg/kg	SW846 8270E BY SIM
Benzo(a)anthracene		0.444	0.041		mg/kg	SW846 8270E BY SIM
Benzo(a)pyrene		0.428	0.041		mg/kg	SW846 8270E BY SIM
Benzo(b)fluoranthene		0.593	0.041		mg/kg	SW846 8270E BY SIM
Benzo(g,h,i)perylene		0.314	0.041		mg/kg	SW846 8270E BY SIM
Benzo(k)fluoranthene		0.152	0.0041		mg/kg	SW846 8270E BY SIM
Chrysene		0.418	0.041		mg/kg	SW846 8270E BY SIM
Dibenzo(a,h)anthracene		0.0725	0.0041		mg/kg	SW846 8270E BY SIM
Fluoranthene		0.788	0.041		mg/kg	SW846 8270E BY SIM
Fluorene		0.0272	0.0041		mg/kg	SW846 8270E BY SIM
Indeno(1,2,3-cd)pyrene		0.298	0.041		mg/kg	SW846 8270E BY SIM

Summary of Hits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Naphthalene	0.0422	0.0041		mg/kg	SW846 8270E BY SIM
Phenanthrene	0.475	0.041		mg/kg	SW846 8270E BY SIM
Pyrene	0.799	0.041		mg/kg	SW846 8270E BY SIM
CT-DRO (C9-C36)	177	8.0		mg/kg	CT-ETPH
4,4'-DDD [b]	0.0116	0.00080		mg/kg	SW846 8081B
4,4'-DDE	0.0356	0.00080		mg/kg	SW846 8081B
4,4'-DDT	0.208	0.0040		mg/kg	SW846 8081B
Aroclor 1254 [c]	0.233	0.060		mg/kg	SW846 8082A
Arsenic	6.3	2.5		mg/kg	SW846 6010D
Barium	98.2	25		mg/kg	SW846 6010D
Beryllium	0.62	0.25		mg/kg	SW846 6010D
Cadmium	0.95	0.63		mg/kg	SW846 6010D
Chromium	14.7	1.3		mg/kg	SW846 6010D
Copper	30.3	3.2		mg/kg	SW846 6010D
Lead	210	2.5		mg/kg	SW846 6010D
Mercury	0.24	0.033		mg/kg	SW846 7471B
Nickel	9.4	5.1		mg/kg	SW846 6010D
Silver	0.71	0.63		mg/kg	SW846 6010D
Vanadium	21.8	6.3		mg/kg	SW846 6010D
Zinc	154	6.3		mg/kg	SW846 6010D
JD29693-8 FD-01					
Acenaphthene	0.0459	0.0041		mg/kg	SW846 8270E BY SIM
Acenaphthylene	0.0953	0.0041		mg/kg	SW846 8270E BY SIM
Anthracene	0.184	0.0041		mg/kg	SW846 8270E BY SIM
Benzo(a)anthracene	1.05	0.041		mg/kg	SW846 8270E BY SIM
Benzo(a)pyrene	0.969	0.041		mg/kg	SW846 8270E BY SIM
Benzo(b)fluoranthene	1.33	0.041		mg/kg	SW846 8270E BY SIM
Benzo(g,h,i)perylene	0.661	0.041		mg/kg	SW846 8270E BY SIM
Benzo(k)fluoranthene	0.509	0.041		mg/kg	SW846 8270E BY SIM
Chrysene	0.957	0.041		mg/kg	SW846 8270E BY SIM
Dibenzo(a,h)anthracene	0.147	0.0041		mg/kg	SW846 8270E BY SIM
Fluoranthene	1.72	0.041		mg/kg	SW846 8270E BY SIM
Fluorene	0.0436	0.0041		mg/kg	SW846 8270E BY SIM
Indeno(1,2,3-cd)pyrene	0.656	0.041		mg/kg	SW846 8270E BY SIM
Naphthalene	0.139	0.0041		mg/kg	SW846 8270E BY SIM
Phenanthrene	0.765	0.041		mg/kg	SW846 8270E BY SIM
Pyrene	1.72	0.041		mg/kg	SW846 8270E BY SIM
CT-DRO (C9-C36)	178	7.9		mg/kg	CT-ETPH
4,4'-DDD	0.0047	0.00079		mg/kg	SW846 8081B
4,4'-DDE	0.0134	0.00079		mg/kg	SW846 8081B
4,4'-DDT	0.0609	0.00079		mg/kg	SW846 8081B
Aroclor 1254 [c]	0.413	0.060		mg/kg	SW846 8082A
Arsenic	6.7	2.4		mg/kg	SW846 6010D

Summary of Hits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Barium		164	24		mg/kg	SW846 6010D
Beryllium		0.60	0.24		mg/kg	SW846 6010D
Cadmium		1.7	0.60		mg/kg	SW846 6010D
Chromium		19.8	1.2		mg/kg	SW846 6010D
Copper		42.8	3.0		mg/kg	SW846 6010D
Lead		311	2.4		mg/kg	SW846 6010D
Mercury		0.14	0.032		mg/kg	SW846 7471B
Nickel		11.7	4.8		mg/kg	SW846 6010D
Silver		0.89	0.60		mg/kg	SW846 6010D
Vanadium		27.7	6.0		mg/kg	SW846 6010D
Zinc		263	6.0		mg/kg	SW846 6010D
JD29693-9	**B-8-0507**					
Acetone		0.0101	0.0058		mg/kg	SW846 8260D
CT-DRO (C9-C36)		29.2	7.6		mg/kg	CT-ETPH
Barium		25.4	24		mg/kg	SW846 6010D
Beryllium		0.43	0.24		mg/kg	SW846 6010D
Chromium		10.4	1.2		mg/kg	SW846 6010D
Copper		9.8	3.1		mg/kg	SW846 6010D
Lead		2.9	2.4		mg/kg	SW846 6010D
Nickel		6.2	4.9		mg/kg	SW846 6010D
Vanadium		16.2	6.1		mg/kg	SW846 6010D
Zinc		16.6	6.1		mg/kg	SW846 6010D
JD29693-10	**MW-6-0002**					
Acenaphthylene		0.0541	0.0073		mg/kg	SW846 8270E BY SIM
Anthracene		0.0448	0.0073		mg/kg	SW846 8270E BY SIM
Benzo(a)anthracene		0.0895	0.0073		mg/kg	SW846 8270E BY SIM
Benzo(a)pyrene		0.0732	0.0073		mg/kg	SW846 8270E BY SIM
Benzo(b)fluoranthene		0.172	0.0073		mg/kg	SW846 8270E BY SIM
Benzo(g,h,i)perylene		0.146	0.0073		mg/kg	SW846 8270E BY SIM
Benzo(k)fluoranthene		0.0445	0.0073		mg/kg	SW846 8270E BY SIM
Chrysene		0.206	0.0073		mg/kg	SW846 8270E BY SIM
Dibenzo(a,h)anthracene		0.0233	0.0073		mg/kg	SW846 8270E BY SIM
Fluoranthene		0.175	0.0073		mg/kg	SW846 8270E BY SIM
Fluorene		0.0338	0.0073		mg/kg	SW846 8270E BY SIM
Indeno(1,2,3-cd)pyrene		0.0842	0.0073		mg/kg	SW846 8270E BY SIM
Naphthalene		0.328	0.0073		mg/kg	SW846 8270E BY SIM
Phenanthrene		0.286	0.0073		mg/kg	SW846 8270E BY SIM
Pyrene		0.182	0.0073		mg/kg	SW846 8270E BY SIM
CT-DRO (C9-C36)		214	7.4		mg/kg	CT-ETPH
4,4'-DDE [b]		0.0082	0.00068		mg/kg	SW846 8081B
4,4'-DDT		0.0207	0.00068		mg/kg	SW846 8081B

Summary of Hits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Arsenic		51.9	2.1		mg/kg	SW846 6010D
Barium		115	21		mg/kg	SW846 6010D
Beryllium		0.68	0.21		mg/kg	SW846 6010D
Chromium		9.8	1.1		mg/kg	SW846 6010D
Copper		22.9	2.6		mg/kg	SW846 6010D
Lead		95.2	2.1		mg/kg	SW846 6010D
Mercury		0.16	0.035		mg/kg	SW846 7471B
Nickel		9.5	4.2		mg/kg	SW846 6010D
Selenium		3.3	2.1		mg/kg	SW846 6010D
Silver		0.58	0.53		mg/kg	SW846 6010D
Vanadium		49.3	5.3		mg/kg	SW846 6010D
Zinc		22.4	5.3		mg/kg	SW846 6010D
JD29693-11	**MW-6-0305**					
Acetone		0.0156	0.012		mg/kg	SW846 8260D
Acenaphthene		0.247	0.039		mg/kg	SW846 8270E BY SIM
Acenaphthylene		0.394	0.039		mg/kg	SW846 8270E BY SIM
Anthracene		1.04	0.039		mg/kg	SW846 8270E BY SIM
Benzo(a)anthracene		1.45	0.039		mg/kg	SW846 8270E BY SIM
Benzo(a)pyrene		0.984	0.039		mg/kg	SW846 8270E BY SIM
Benzo(b)fluoranthene		1.37	0.039		mg/kg	SW846 8270E BY SIM
Benzo(g,h,i)perylene		0.539	0.039		mg/kg	SW846 8270E BY SIM
Benzo(k)fluoranthene		0.448	0.039		mg/kg	SW846 8270E BY SIM
Chrysene		1.24	0.039		mg/kg	SW846 8270E BY SIM
Dibenzo(a,h)anthracene		0.151	0.0039		mg/kg	SW846 8270E BY SIM
Fluoranthene		3.28	0.19		mg/kg	SW846 8270E BY SIM
Fluorene		0.609	0.039		mg/kg	SW846 8270E BY SIM
Indeno(1,2,3-cd)pyrene		0.581	0.039		mg/kg	SW846 8270E BY SIM
Naphthalene		1.49	0.039		mg/kg	SW846 8270E BY SIM
Phenanthrene		4.46	0.19		mg/kg	SW846 8270E BY SIM
Pyrene		2.95	0.19		mg/kg	SW846 8270E BY SIM
CT-DRO (C9-C36)		2020	74		mg/kg	CT-ETPH
4,4'-DDD [b]		0.0751	0.0039		mg/kg	SW846 8081B
Arsenic [d]		49.1	12		mg/kg	SW846 6010D
Barium		34.3	24		mg/kg	SW846 6010D
Chromium		11.6	1.2		mg/kg	SW846 6010D
Copper [d]		20.3	15		mg/kg	SW846 6010D
Lead [d]		55.3	12		mg/kg	SW846 6010D
Mercury		0.091	0.033		mg/kg	SW846 7471B
Nickel		7.7	4.7		mg/kg	SW846 6010D
Zinc		20.0	5.9		mg/kg	SW846 6010D

Summary of Hits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD29693-12	**MW-5-0002**					
Benzo(a)pyrene		0.00352	0.0035		mg/kg	SW846 8270E BY SIM
Benzo(b)fluoranthene		0.00642	0.0035		mg/kg	SW846 8270E BY SIM
Chrysene		0.00457	0.0035		mg/kg	SW846 8270E BY SIM
Fluoranthene		0.00764	0.0035		mg/kg	SW846 8270E BY SIM
Phenanthrene		0.00550	0.0035		mg/kg	SW846 8270E BY SIM
Pyrene		0.00700	0.0035		mg/kg	SW846 8270E BY SIM
CT-DRO (C9-C36)		16.7	6.8		mg/kg	CT-ETPH
Arsenic		2.4	2.1		mg/kg	SW846 6010D
Beryllium		0.50	0.21		mg/kg	SW846 6010D
Chromium		9.4	1.1		mg/kg	SW846 6010D
Copper		6.1	2.7		mg/kg	SW846 6010D
Lead		5.8	2.1		mg/kg	SW846 6010D
Nickel		5.9	4.3		mg/kg	SW846 6010D
Silver		0.60	0.53		mg/kg	SW846 6010D
Vanadium		16.4	5.3		mg/kg	SW846 6010D
Zinc		15.9	5.3		mg/kg	SW846 6010D
JD29693-13	**MW-05-0810**					
Acetone		0.0128	0.0050		mg/kg	SW846 8260D
CT-DRO (C9-C36)		15.5	7.7		mg/kg	CT-ETPH
Barium		60.3	24		mg/kg	SW846 6010D
Beryllium		0.57	0.24		mg/kg	SW846 6010D
Chromium		14.5	1.2		mg/kg	SW846 6010D
Copper		4.8	3.0		mg/kg	SW846 6010D
Lead		4.1	2.4		mg/kg	SW846 6010D
Nickel		8.0	4.8		mg/kg	SW846 6010D
Silver		1.1	0.60		mg/kg	SW846 6010D
Vanadium		22.2	6.0		mg/kg	SW846 6010D
Zinc		33.9	6.0		mg/kg	SW846 6010D
JD29693-14	**TB-01**					
No hits reported in this sample.						
JD29693-15	**MW-4-0002**					
Acenaphthene		0.161	0.0073		mg/kg	SW846 8270E BY SIM
Acenaphthylene		0.556	0.073		mg/kg	SW846 8270E BY SIM
Anthracene		1.12	0.073		mg/kg	SW846 8270E BY SIM
Benzo(a)anthracene		2.72	0.073		mg/kg	SW846 8270E BY SIM
Benzo(a)pyrene		2.13	0.073		mg/kg	SW846 8270E BY SIM
Benzo(b)fluoranthene		3.00	0.073		mg/kg	SW846 8270E BY SIM

Summary of Hits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Benzo(g,h,i)perylene	1.19	0.073		mg/kg	SW846 8270E BY SIM
Benzo(k)fluoranthene	1.00	0.073		mg/kg	SW846 8270E BY SIM
Chrysene	2.41	0.073		mg/kg	SW846 8270E BY SIM
Dibenzo(a,h)anthracene	0.349	0.0073		mg/kg	SW846 8270E BY SIM
Fluoranthene	4.98	0.15		mg/kg	SW846 8270E BY SIM
Fluorene	0.447	0.073		mg/kg	SW846 8270E BY SIM
Indeno(1,2,3-cd)pyrene	1.28	0.073		mg/kg	SW846 8270E BY SIM
Naphthalene	0.172	0.0073		mg/kg	SW846 8270E BY SIM
Phenanthrene	4.41	0.15		mg/kg	SW846 8270E BY SIM
Pyrene	4.76	0.15		mg/kg	SW846 8270E BY SIM
CT-DRO (C9-C36)	111	7.2		mg/kg	CT-ETPH
Antimony [d]	68.2	11		mg/kg	SW846 6010D
Arsenic [d]	12.5	11		mg/kg	SW846 6010D
Barium	92.8	23		mg/kg	SW846 6010D
Chromium	7.1	1.1		mg/kg	SW846 6010D
Copper [d]	356	14		mg/kg	SW846 6010D
Lead	7450	23		mg/kg	SW846 6010D
Mercury	0.38	0.032		mg/kg	SW846 7471B
Nickel	9.8	4.6		mg/kg	SW846 6010D
Vanadium	14.2	5.7		mg/kg	SW846 6010D
Zinc	727	5.7		mg/kg	SW846 6010D
JD29693-16 MW-4-0204					
Acetone	0.0644	0.0084		mg/kg	SW846 8260D
2-Butanone (MEK) [e]	0.0133	0.0084		mg/kg	SW846 8260D
Acenaphthylene	0.00687	0.0045		mg/kg	SW846 8270E BY SIM
Anthracene	0.0126	0.0045		mg/kg	SW846 8270E BY SIM
Benzo(a)anthracene	0.0362	0.0045		mg/kg	SW846 8270E BY SIM
Benzo(a)pyrene	0.0311	0.0045		mg/kg	SW846 8270E BY SIM
Benzo(b)fluoranthene	0.0625	0.0045		mg/kg	SW846 8270E BY SIM
Benzo(g,h,i)perylene	0.0287	0.0045		mg/kg	SW846 8270E BY SIM
Benzo(k)fluoranthene	0.0195	0.0045		mg/kg	SW846 8270E BY SIM
Chrysene	0.0379	0.0045		mg/kg	SW846 8270E BY SIM
Dibenzo(a,h)anthracene	0.00889	0.0045		mg/kg	SW846 8270E BY SIM
Fluoranthene	0.0551	0.0045		mg/kg	SW846 8270E BY SIM
Indeno(1,2,3-cd)pyrene	0.0264	0.0045		mg/kg	SW846 8270E BY SIM
Naphthalene	0.0129	0.0045		mg/kg	SW846 8270E BY SIM
Phenanthrene	0.0450	0.0045		mg/kg	SW846 8270E BY SIM
Pyrene	0.0447	0.0045		mg/kg	SW846 8270E BY SIM
CT-DRO (C9-C36)	21.4	9.3		mg/kg	CT-ETPH
Antimony	2.7	2.7		mg/kg	SW846 6010D
Arsenic	5.8	2.7		mg/kg	SW846 6010D
Barium	90.7	27		mg/kg	SW846 6010D
Beryllium	0.46	0.27		mg/kg	SW846 6010D

Summary of Hits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Cadmium		2.5	0.68		mg/kg	SW846 6010D
Chromium		15.0	1.4		mg/kg	SW846 6010D
Copper		308	3.4		mg/kg	SW846 6010D
Lead		745	2.7		mg/kg	SW846 6010D
Mercury		11.0	0.84		mg/kg	SW846 7471B
Nickel		12.8	5.4		mg/kg	SW846 6010D
Silver		0.84	0.68		mg/kg	SW846 6010D
Vanadium		17.2	6.8		mg/kg	SW846 6010D
Zinc [d]		1110	14		mg/kg	SW846 6010D
JD29693-17	**MW-1R-0002**					
Acenaphthene [f]		0.252	0.0070		mg/kg	SW846 8270E BY SIM
Acenaphthylene		0.629	0.070		mg/kg	SW846 8270E BY SIM
Anthracene		1.35	0.070		mg/kg	SW846 8270E BY SIM
Benzo(a)anthracene		3.15	0.070		mg/kg	SW846 8270E BY SIM
Benzo(a)pyrene		2.42	0.070		mg/kg	SW846 8270E BY SIM
Benzo(b)fluoranthene		2.98	0.14		mg/kg	SW846 8270E BY SIM
Benzo(g,h,i)perylene		1.58	0.070		mg/kg	SW846 8270E BY SIM
Benzo(k)fluoranthene		1.46	0.070		mg/kg	SW846 8270E BY SIM
Chrysene		2.92	0.070		mg/kg	SW846 8270E BY SIM
Dibenzo(a,h)anthracene		0.441	0.070		mg/kg	SW846 8270E BY SIM
Fluoranthene		5.57	0.14		mg/kg	SW846 8270E BY SIM
Fluorene [f]		0.347	0.0070		mg/kg	SW846 8270E BY SIM
Indeno(1,2,3-cd)pyrene		1.56	0.070		mg/kg	SW846 8270E BY SIM
Naphthalene [f]		0.164	0.0070		mg/kg	SW846 8270E BY SIM
Phenanthrene		6.30	0.14		mg/kg	SW846 8270E BY SIM
Pyrene		5.21	0.14		mg/kg	SW846 8270E BY SIM
CT-DRO (C9-C36)		158	6.7		mg/kg	CT-ETPH
Arsenic		6.2	2.2		mg/kg	SW846 6010D
Barium		72.9	22		mg/kg	SW846 6010D
Beryllium		0.47	0.22		mg/kg	SW846 6010D
Cadmium		0.58	0.54		mg/kg	SW846 6010D
Chromium		12.5	1.1		mg/kg	SW846 6010D
Copper		42.7	2.7		mg/kg	SW846 6010D
Lead		217	2.2		mg/kg	SW846 6010D
Mercury		0.27	0.034		mg/kg	SW846 7471B
Nickel		9.5	4.3		mg/kg	SW846 6010D
Vanadium		23.5	5.4		mg/kg	SW846 6010D
Zinc		165	5.4		mg/kg	SW846 6010D
JD29693-18	**MW-1R-0406**					
Acenaphthene		0.0179	0.0036		mg/kg	SW846 8270E BY SIM
Acenaphthylene		0.0660	0.0036		mg/kg	SW846 8270E BY SIM

Summary of Hits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

3

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Anthracene	0.0904	0.0036		mg/kg	SW846 8270E BY SIM
Benzo(a)anthracene	0.338	0.036		mg/kg	SW846 8270E BY SIM
Benzo(a)pyrene	0.249	0.036		mg/kg	SW846 8270E BY SIM
Benzo(b)fluoranthene	0.472	0.036		mg/kg	SW846 8270E BY SIM
Benzo(g,h,i)perylene	0.180	0.0036		mg/kg	SW846 8270E BY SIM
Benzo(k)fluoranthene	0.135	0.0036		mg/kg	SW846 8270E BY SIM
Chrysene	0.359	0.036		mg/kg	SW846 8270E BY SIM
Dibenzo(a,h)anthracene	0.0570	0.0036		mg/kg	SW846 8270E BY SIM
Fluoranthene	0.662	0.036		mg/kg	SW846 8270E BY SIM
Fluorene	0.0322	0.0036		mg/kg	SW846 8270E BY SIM
Indeno(1,2,3-cd)pyrene	0.165	0.036		mg/kg	SW846 8270E BY SIM
Naphthalene	0.0811	0.0036		mg/kg	SW846 8270E BY SIM
Phenanthrene	0.532	0.036		mg/kg	SW846 8270E BY SIM
Pyrene	0.671	0.036		mg/kg	SW846 8270E BY SIM
CT-DRO (C9-C36)	64.6	7.0		mg/kg	CT-ETPH
4,4'-DDD [b]	0.0089	0.00072		mg/kg	SW846 8081B
4,4'-DDE [g]	0.0015	0.00072		mg/kg	SW846 8081B
4,4'-DDT	0.0081	0.00072		mg/kg	SW846 8081B
Arsenic	5.7	2.2		mg/kg	SW846 6010D
Barium	147	22		mg/kg	SW846 6010D
Beryllium	0.48	0.22		mg/kg	SW846 6010D
Chromium	17.8	1.1		mg/kg	SW846 6010D
Copper	34.1	2.8		mg/kg	SW846 6010D
Lead	347	2.2		mg/kg	SW846 6010D
Mercury	0.54	0.036		mg/kg	SW846 7471B
Nickel	12.9	4.5		mg/kg	SW846 6010D
Silver	0.58	0.56		mg/kg	SW846 6010D
Vanadium	18.1	5.6		mg/kg	SW846 6010D
Zinc	202	5.6		mg/kg	SW846 6010D
JD29693-19 B-2-0002					
Acenaphthene	0.00881	0.0038		mg/kg	SW846 8270E BY SIM
Acenaphthylene	0.0533	0.0038		mg/kg	SW846 8270E BY SIM
Anthracene	0.0703	0.0038		mg/kg	SW846 8270E BY SIM
Benzo(a)anthracene	0.153	0.0038		mg/kg	SW846 8270E BY SIM
Benzo(a)pyrene	0.100	0.0038		mg/kg	SW846 8270E BY SIM
Benzo(b)fluoranthene	0.194	0.019		mg/kg	SW846 8270E BY SIM
Benzo(g,h,i)perylene	0.0677	0.0038		mg/kg	SW846 8270E BY SIM
Benzo(k)fluoranthene	0.0636	0.0038		mg/kg	SW846 8270E BY SIM
Chrysene	0.162	0.0038		mg/kg	SW846 8270E BY SIM
Dibenzo(a,h)anthracene	0.0242	0.0038		mg/kg	SW846 8270E BY SIM
Fluoranthene	0.322	0.019		mg/kg	SW846 8270E BY SIM
Fluorene	0.0186	0.0038		mg/kg	SW846 8270E BY SIM
Indeno(1,2,3-cd)pyrene	0.0744	0.0038		mg/kg	SW846 8270E BY SIM

Summary of Hits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Naphthalene		0.0989	0.0038		mg/kg	SW846 8270E BY SIM
Phenanthrene		0.320	0.019		mg/kg	SW846 8270E BY SIM
Pyrene		0.275	0.019		mg/kg	SW846 8270E BY SIM
CT-DRO (C9-C36)		204	7.8		mg/kg	CT-ETPH
4,4'-DDD [b]		0.0039	0.00074		mg/kg	SW846 8081B
4,4'-DDT		0.0052	0.00074		mg/kg	SW846 8081B
Antimony		19.7	2.3		mg/kg	SW846 6010D
Arsenic		15.4	2.3		mg/kg	SW846 6010D
Barium		129	23		mg/kg	SW846 6010D
Beryllium		0.61	0.23		mg/kg	SW846 6010D
Cadmium		1.2	0.57		mg/kg	SW846 6010D
Chromium		9.8	1.1		mg/kg	SW846 6010D
Copper		357	2.9		mg/kg	SW846 6010D
Lead		1140	4.6		mg/kg	SW846 6010D
Mercury		0.84	0.063		mg/kg	SW846 7471B
Nickel		12.6	4.6		mg/kg	SW846 6010D
Silver		0.98	0.57		mg/kg	SW846 6010D
Vanadium		20.3	5.7		mg/kg	SW846 6010D
Zinc		552	5.7		mg/kg	SW846 6010D
JD29693-20	**B-2-0507**					
Acetone		0.0620	0.0062		mg/kg	SW846 8260D
2-Butanone (MEK) [e]		0.0136	0.0062		mg/kg	SW846 8260D
sec-Butylbenzene		0.0086	0.0012		mg/kg	SW846 8260D
tert-Butylbenzene		0.0022	0.0012		mg/kg	SW846 8260D
Isopropylbenzene		0.0018	0.0012		mg/kg	SW846 8260D
n-Propylbenzene		0.0014	0.0012		mg/kg	SW846 8260D
Naphthalene		0.00681	0.0039		mg/kg	SW846 8270E BY SIM
CT-DRO (C9-C36)		18.1	8.1		mg/kg	CT-ETPH
Arsenic		2.5	2.5		mg/kg	SW846 6010D
Barium		75.7	25		mg/kg	SW846 6010D
Beryllium		0.67	0.25		mg/kg	SW846 6010D
Chromium		11.8	1.2		mg/kg	SW846 6010D
Copper		4.4	3.1		mg/kg	SW846 6010D
Lead		15.8	2.5		mg/kg	SW846 6010D
Nickel		7.5	4.9		mg/kg	SW846 6010D
Silver		0.69	0.62		mg/kg	SW846 6010D
Vanadium		28.5	6.2		mg/kg	SW846 6010D
Zinc		36.3	6.2		mg/kg	SW846 6010D
JD29693-21	**B-3-0002**					
Acenaphthene [f]		0.130	0.0069		mg/kg	SW846 8270E BY SIM
Acenaphthylene		0.568	0.069		mg/kg	SW846 8270E BY SIM

Summary of Hits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Anthracene	0.956	0.069		mg/kg	SW846 8270E BY SIM
Benzo(a)anthracene	4.04	0.34		mg/kg	SW846 8270E BY SIM
Benzo(a)pyrene	3.38	0.069		mg/kg	SW846 8270E BY SIM
Benzo(b)fluoranthene	5.11	0.34		mg/kg	SW846 8270E BY SIM
Benzo(g,h,i)perylene	2.09	0.069		mg/kg	SW846 8270E BY SIM
Benzo(k)fluoranthene	1.64	0.069		mg/kg	SW846 8270E BY SIM
Chrysene	4.21	0.34		mg/kg	SW846 8270E BY SIM
Dibenzo(a,h)anthracene	0.663	0.069		mg/kg	SW846 8270E BY SIM
Fluoranthene	8.67	0.34		mg/kg	SW846 8270E BY SIM
Fluorene [f]	0.279	0.0069		mg/kg	SW846 8270E BY SIM
Indeno(1,2,3-cd)pyrene	2.37	0.069		mg/kg	SW846 8270E BY SIM
Naphthalene [f]	0.191	0.0069		mg/kg	SW846 8270E BY SIM
Phenanthrene	5.05	0.34		mg/kg	SW846 8270E BY SIM
Pyrene	7.78	0.34		mg/kg	SW846 8270E BY SIM
CT-DRO (C9-C36)	640	7.1		mg/kg	CT-ETPH
Arsenic	4.5	2.1		mg/kg	SW846 6010D
Barium	57.2	21		mg/kg	SW846 6010D
Beryllium	0.34	0.21		mg/kg	SW846 6010D
Chromium	11.5	1.1		mg/kg	SW846 6010D
Copper	32.7	2.7		mg/kg	SW846 6010D
Lead	168	2.1		mg/kg	SW846 6010D
Mercury	0.34	0.033		mg/kg	SW846 7471B
Nickel	11.4	4.3		mg/kg	SW846 6010D
Vanadium	20.1	5.3		mg/kg	SW846 6010D
Zinc	105	5.3		mg/kg	SW846 6010D
JD29693-22 B-3-0305					
Acenaphthene	0.0402	0.0037		mg/kg	SW846 8270E BY SIM
Acenaphthylene	0.223	0.0074		mg/kg	SW846 8270E BY SIM
Anthracene	0.535	0.074		mg/kg	SW846 8270E BY SIM
Benzo(a)anthracene	2.04	0.074		mg/kg	SW846 8270E BY SIM
Benzo(a)pyrene	1.78	0.074		mg/kg	SW846 8270E BY SIM
Benzo(b)fluoranthene	2.89	0.074		mg/kg	SW846 8270E BY SIM
Benzo(g,h,i)perylene	1.37	0.074		mg/kg	SW846 8270E BY SIM
Benzo(k)fluoranthene	0.982	0.074		mg/kg	SW846 8270E BY SIM
Chrysene	2.14	0.074		mg/kg	SW846 8270E BY SIM
Dibenzo(a,h)anthracene	0.324	0.0074		mg/kg	SW846 8270E BY SIM
Fluoranthene	3.85	0.15		mg/kg	SW846 8270E BY SIM
Fluorene	0.125	0.0037		mg/kg	SW846 8270E BY SIM
Indeno(1,2,3-cd)pyrene	1.37	0.074		mg/kg	SW846 8270E BY SIM
Naphthalene	0.0964	0.0037		mg/kg	SW846 8270E BY SIM
Phenanthrene	2.38	0.074		mg/kg	SW846 8270E BY SIM
Pyrene	4.06	0.15		mg/kg	SW846 8270E BY SIM
CT-DRO (C9-C36)	430	7.5		mg/kg	CT-ETPH

Summary of Hits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
4,4'-DDD [b]		0.0071	0.00073		mg/kg	SW846 8081B
Arsenic		3.9	2.3		mg/kg	SW846 6010D
Barium		69.5	23		mg/kg	SW846 6010D
Beryllium		0.39	0.23		mg/kg	SW846 6010D
Chromium		8.5	1.2		mg/kg	SW846 6010D
Copper		30.4	2.9		mg/kg	SW846 6010D
Lead		115	2.3		mg/kg	SW846 6010D
Mercury		0.38	0.031		mg/kg	SW846 7471B
Nickel		8.1	4.6		mg/kg	SW846 6010D
Vanadium		16.9	5.8		mg/kg	SW846 6010D
Zinc		81.4	5.8		mg/kg	SW846 6010D

(a) Elevated detection limit due to low volume of sample extracted.
(b) More than 40 % RPD for detected concentrations between the two GC columns.
(c) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.
(d) Elevated detection limit due to dilution required for high interfering element.
(e) Response factor for this compound is below 0.05 in the inital and continuing calibrations.
(f) Dilution required due to viscosity of the extract matrix.
(g) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	B-10-0002		
Lab Sample ID:	JD29693-1	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	86.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180092.D	1	08/12/21 18:17	PS	n/a	n/a	V1C7850
Run #2							

	Initial Weight
Run #1	7.0 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	0.0117	0.0083	mg/kg	
107-13-1	Acrylonitrile	ND	0.0083	mg/kg	
71-43-2	Benzene	ND	0.00041	mg/kg	
108-86-1	Bromobenzene	ND	0.0041	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0017	mg/kg	
75-25-2	Bromoform	ND	0.0041	mg/kg	
74-83-9	Bromomethane	ND	0.0041	mg/kg	
78-93-3	2-Butanone (MEK) [a]	ND	0.0083	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0017	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0017	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0017	mg/kg	
75-15-0	Carbon disulfide	ND	0.0017	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0017	mg/kg	
108-90-7	Chlorobenzene	ND	0.0017	mg/kg	
75-00-3	Chloroethane	ND	0.0041	mg/kg	
67-66-3	Chloroform	ND	0.0017	mg/kg	
74-87-3	Chloromethane	ND	0.0041	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0017	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0017	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0017	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0017	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.00083	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.00083	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.00083	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.00083	mg/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	0.0041	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0041	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.00083	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.00083	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.00083	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.00083	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.00083	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-10-0002		
Lab Sample ID:	JD29693-1	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	86.5
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0017	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0017	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0017	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0017	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0017	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0017	mg/kg	
100-41-4	Ethylbenzene	ND	0.00083	mg/kg	
76-13-1	Freon 113	ND	0.0041	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0041	mg/kg	
591-78-6	2-Hexanone	ND	0.0041	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0017	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0017	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.00083	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0041	mg/kg	
74-95-3	Methylene bromide	ND	0.0041	mg/kg	
75-09-2	Methylene chloride	ND	0.0041	mg/kg	
91-20-3	Naphthalene	ND	0.0041	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0017	mg/kg	
100-42-5	Styrene	ND	0.0017	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0017	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0017	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0017	mg/kg	
109-99-9	Tetrahydrofuran	ND	0.0083	mg/kg	
108-88-3	Toluene	ND	0.00083	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0041	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0041	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0017	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0017	mg/kg	
79-01-6	Trichloroethene	ND	0.00083	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0041	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0041	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0017	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0017	mg/kg	
75-01-4	Vinyl chloride	ND	0.0017	mg/kg	
	m,p-Xylene	ND	0.00083	mg/kg	
95-47-6	o-Xylene	ND	0.00083	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-10-0002		
Lab Sample ID:	JD29693-1	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	86.5
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	114%		75-131%
2037-26-5	Toluene-D8	107%		81-121%
460-00-4	4-Bromofluorobenzene	114%		60-141%

(a) Response factor for this compound is below 0.05 in the initial and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-10-0002		
Lab Sample ID:	JD29693-1	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	86.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4M101732.D	1	08/17/21 08:08	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2							

	Initial Weight	Final Volume
Run #1	5.8 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.020	mg/kg	
208-96-8	Acenaphthylene	0.192	0.020	mg/kg	
120-12-7	Anthracene	0.101	0.020	mg/kg	
56-55-3	Benzo(a)anthracene	0.436	0.020	mg/kg	
50-32-8	Benzo(a)pyrene	0.608	0.020	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.932	0.020	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.786	0.020	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.326	0.020	mg/kg	
218-01-9	Chrysene	0.563	0.020	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.179	0.020	mg/kg	
206-44-0	Fluoranthene	0.707	0.020	mg/kg	
86-73-7	Fluorene	0.0303	0.020	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.686	0.020	mg/kg	
91-20-3	Naphthalene	0.0481	0.020	mg/kg	
85-01-8	Phenanthrene	0.474	0.020	mg/kg	
129-00-0	Pyrene	0.713	0.020	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		39-90%
321-60-8	2-Fluorobiphenyl	72%		35-84%
1718-51-0	Terphenyl-d14	73%		42-95%

(a) Elevated detection limit due to low volume of sample extracted.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-10-0002		
Lab Sample ID:	JD29693-1	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	86.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G39999.D	1	08/13/21 22:15	RK	08/12/21 09:55	OP34849	G8G1686
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00074	mg/kg	
15972-60-8	Alachlor	ND	0.0074	mg/kg	
319-84-6	alpha-BHC	ND	0.00074	mg/kg	
319-85-7	beta-BHC	ND	0.00074	mg/kg	
319-86-8	delta-BHC	ND	0.00074	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00074	mg/kg	
12789-03-6	Chlordane	ND	0.037	mg/kg	
60-57-1	Dieldrin	ND	0.00074	mg/kg	
72-54-8	4,4'-DDD	ND	0.00074	mg/kg	
72-55-9	4,4'-DDE	ND	0.00074	mg/kg	
50-29-3	4,4'-DDT	ND	0.00074	mg/kg	
72-20-8	Endrin	ND	0.00074	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00074	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00074	mg/kg	
959-98-8	Endosulfan-I	ND	0.00074	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00074	mg/kg	
76-44-8	Heptachlor	ND	0.00074	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00074	mg/kg	
72-43-5	Methoxychlor	ND	0.0015	mg/kg	
53494-70-5	Endrin ketone	ND	0.00074	mg/kg	
8001-35-2	Toxaphene	ND	0.019	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		27-138%
877-09-8	Tetrachloro-m-xylene	105%		27-138%
2051-24-3	Decachlorobiphenyl	167%		10-179%
2051-24-3	Decachlorobiphenyl	314% [a]		10-179%

(a) Outside control limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-10-0002		
Lab Sample ID:	JD29693-1	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3540C	**Percent Solids:**	86.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2469730.D	1	08/19/21 01:11	RK	08/17/21 17:45	OP34955	GXX7544
Run #2	XX2469772.D	5	08/19/21 20:41	TC	08/17/21 17:45	OP34955	GXX7546

	Initial Weight	Final Volume
Run #1	10.3 g	10.0 ml
Run #2	10.3 g	10.0 ml

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.056	mg/kg	
11104-28-2	Aroclor 1221	ND	0.056	mg/kg	
11141-16-5	Aroclor 1232	ND	0.056	mg/kg	
53469-21-9	Aroclor 1242	ND	0.056	mg/kg	
12672-29-6	Aroclor 1248	ND	0.056	mg/kg	
11097-69-1	Aroclor 1254	3.84 [a]	0.28	mg/kg	
11096-82-5	Aroclor 1260	ND	0.056	mg/kg	
11100-14-4	Aroclor 1268	ND	0.056	mg/kg	
37324-23-5	Aroclor 1262	ND	0.056	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	111%	117%	24-152%
877-09-8	Tetrachloro-m-xylene	114%	105%	24-152%
2051-24-3	Decachlorobiphenyl	153%	159%	10-172%
2051-24-3	Decachlorobiphenyl	179% [b]	162%	10-172%

(a) Result is from Run# 2
(b) Outside control limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-10-0002		
Lab Sample ID:	JD29693-1	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3546	**Percent Solids:**	86.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y40005.D	1	08/12/21 23:53	TL	08/12/21 09:35	OP34853	G8Y1645
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	197	7.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	53%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-10-0002		
Lab Sample ID:	JD29693-1	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	86.5
Project:	43 Hempstead Street, New London, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.4	2.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	16.7	2.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	107	24	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.62	0.24	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	1.2	0.61	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	17.3	1.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	35.7	3.0	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	143	2.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.16	0.033	mg/kg	1	08/20/21	08/20/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	29.5	4.9	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.4	2.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	0.72	0.61	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	180	6.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	107	6.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA51006
(2) Instrument QC Batch: MA51015
(3) Prep QC Batch: MP28177
(4) Prep QC Batch: MP28186

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-10-0204		
Lab Sample ID:	JD29693-2	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	91.6
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180093.D	1	08/12/21 18:45	PS	n/a	n/a	V1C7850
Run #2							

	Initial Weight
Run #1	2.1 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.026	mg/kg	
107-13-1	Acrylonitrile	ND	0.026	mg/kg	
71-43-2	Benzene	ND	0.0013	mg/kg	
108-86-1	Bromobenzene	ND	0.013	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0052	mg/kg	
75-25-2	Bromoform	ND	0.013	mg/kg	
74-83-9	Bromomethane	ND	0.013	mg/kg	
78-93-3	2-Butanone (MEK) [a]	ND	0.026	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0052	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0052	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0052	mg/kg	
75-15-0	Carbon disulfide	ND	0.0052	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0052	mg/kg	
108-90-7	Chlorobenzene	ND	0.0052	mg/kg	
75-00-3	Chloroethane	ND	0.013	mg/kg	
67-66-3	Chloroform	ND	0.0052	mg/kg	
74-87-3	Chloromethane	ND	0.013	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0052	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0052	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0052	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0052	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0026	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0026	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0026	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0026	mg/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	0.013	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.013	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0026	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0026	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0026	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0026	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0026	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-10-0204		
Lab Sample ID:	JD29693-2	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	91.6
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0052	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0052	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0052	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0052	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0052	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0052	mg/kg	
100-41-4	Ethylbenzene	ND	0.0026	mg/kg	
76-13-1	Freon 113	ND	0.013	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.013	mg/kg	
591-78-6	2-Hexanone	ND	0.013	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0052	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0052	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0026	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.013	mg/kg	
74-95-3	Methylene bromide	ND	0.013	mg/kg	
75-09-2	Methylene chloride	ND	0.013	mg/kg	
91-20-3	Naphthalene	ND	0.013	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0052	mg/kg	
100-42-5	Styrene	ND	0.0052	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0052	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0052	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0052	mg/kg	
109-99-9	Tetrahydrofuran	ND	0.026	mg/kg	
108-88-3	Toluene	ND	0.0026	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.013	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.013	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0052	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0052	mg/kg	
79-01-6	Trichloroethene	ND	0.0026	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.013	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.013	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0052	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0052	mg/kg	
75-01-4	Vinyl chloride	ND	0.0052	mg/kg	
	m,p-Xylene	ND	0.0026	mg/kg	
95-47-6	o-Xylene	ND	0.0026	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-10-0204		
Lab Sample ID:	JD29693-2	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	91.6
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	117%		75-131%
2037-26-5	Toluene-D8	105%		81-121%
460-00-4	4-Bromofluorobenzene	106%		60-141%

(a) Response factor for this compound is below 0.05 in the initial and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-10-0204		
Lab Sample ID:	JD29693-2	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	91.6
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101726.D	1	08/17/21 05:55	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.0036	mg/kg	
208-96-8	Acenaphthylene	0.00868	0.0036	mg/kg	
120-12-7	Anthracene	0.00539	0.0036	mg/kg	
56-55-3	Benzo(a)anthracene	0.0365	0.0036	mg/kg	
50-32-8	Benzo(a)pyrene	0.0690	0.0036	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.109	0.0036	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.124	0.0036	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.0392	0.0036	mg/kg	
218-01-9	Chrysene	0.0561	0.0036	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0231	0.0036	mg/kg	
206-44-0	Fluoranthene	0.0458	0.0036	mg/kg	
86-73-7	Fluorene	ND	0.0036	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.103	0.0036	mg/kg	
91-20-3	Naphthalene	0.00633	0.0036	mg/kg	
85-01-8	Phenanthrene	0.0394	0.0036	mg/kg	
129-00-0	Pyrene	0.0483	0.0036	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%		39-90%
321-60-8	2-Fluorobiphenyl	59%		35-84%
1718-51-0	Terphenyl-d14	63%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-10-0204		
Lab Sample ID:	JD29693-2	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	91.6
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G168916.D	1	08/13/21 15:15	TC	08/12/21 09:55	OP34849	G1G5775
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00070	mg/kg	
15972-60-8	Alachlor	ND	0.0070	mg/kg	
319-84-6	alpha-BHC	ND	0.00070	mg/kg	
319-85-7	beta-BHC	ND	0.00070	mg/kg	
319-86-8	delta-BHC	ND	0.00070	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00070	mg/kg	
12789-03-6	Chlordane	ND	0.035	mg/kg	
60-57-1	Dieldrin	ND	0.00070	mg/kg	
72-54-8	4,4'-DDD	ND	0.00070	mg/kg	
72-55-9	4,4'-DDE	ND	0.00070	mg/kg	
50-29-3	4,4'-DDT	ND	0.00070	mg/kg	
72-20-8	Endrin	ND	0.00070	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00070	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00070	mg/kg	
959-98-8	Endosulfan-I	ND	0.00070	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00070	mg/kg	
76-44-8	Heptachlor	ND	0.00070	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00070	mg/kg	
72-43-5	Methoxychlor	ND	0.0014	mg/kg	
53494-70-5	Endrin ketone	ND	0.00070	mg/kg	
8001-35-2	Toxaphene	ND	0.018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		27-138%
877-09-8	Tetrachloro-m-xylene	80%		27-138%
2051-24-3	Decachlorobiphenyl	87%		10-179%
2051-24-3	Decachlorobiphenyl	84%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-10-0204		
Lab Sample ID:	JD29693-2	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3540C	**Percent Solids:**	91.6
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G109271.D	1	08/14/21 00:31	TC	08/12/21 16:10	OP34850	G5G2755
Run #2							

	Initial Weight	Final Volume
Run #1	10.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016 [a]	ND	0.055	mg/kg	
11104-28-2	Aroclor 1221	ND	0.055	mg/kg	
11141-16-5	Aroclor 1232	ND	0.055	mg/kg	
53469-21-9	Aroclor 1242	ND	0.055	mg/kg	
12672-29-6	Aroclor 1248	ND	0.055	mg/kg	
11097-69-1	Aroclor 1254	ND	0.055	mg/kg	
11096-82-5	Aroclor 1260 [a]	ND	0.055	mg/kg	
11100-14-4	Aroclor 1268	ND	0.055	mg/kg	
37324-23-5	Aroclor 1262	ND	0.055	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	136%		24-152%
877-09-8	Tetrachloro-m-xylene	138%		24-152%
2051-24-3	Decachlorobiphenyl	154% [b]		10-172%
2051-24-3	Decachlorobiphenyl	142%		10-172%

(a) This compound outside control limits biased high in the associated BS.
(b) Outside program requirements due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-10-0204		
Lab Sample ID:	JD29693-2	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3546	**Percent Solids:**	91.6
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y39997.D	1	08/12/21 18:38	TL	08/12/21 09:35	OP34853	G8Y1645
Run #2							

	Initial Weight	Final Volume
Run #1	16.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	12.4	6.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	58%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-10-0204		
Lab Sample ID:	JD29693-2	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	91.6
Project:	43 Hempstead Street, New London, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.2	2.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	41.7	2.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	49.6	22	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.59	0.22	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.55	0.55	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	10.4	1.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	20.9	2.7	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	26.4	2.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.056	0.036	mg/kg	1	08/20/21	08/20/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	21.1	4.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	2.4	2.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	0.76	0.55	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium	2.0	1.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	407	5.5	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	29.8	5.5	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA51006
(2) Instrument QC Batch: MA51015
(3) Prep QC Batch: MP28177
(4) Prep QC Batch: MP28186

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-7-0002		
Lab Sample ID:	JD29693-3	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	88.8
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180094.D	1	08/12/21 19:12	PS	n/a	n/a	V1C7850
Run #2							

	Initial Weight
Run #1	9.3 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.0061	mg/kg	
107-13-1	Acrylonitrile	ND	0.0061	mg/kg	
71-43-2	Benzene	ND	0.00030	mg/kg	
108-86-1	Bromobenzene	ND	0.0030	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0012	mg/kg	
75-25-2	Bromoform	ND	0.0030	mg/kg	
74-83-9	Bromomethane	ND	0.0030	mg/kg	
78-93-3	2-Butanone (MEK) [a]	ND	0.0061	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0012	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0012	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0012	mg/kg	
75-15-0	Carbon disulfide	ND	0.0012	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0012	mg/kg	
108-90-7	Chlorobenzene	ND	0.0012	mg/kg	
75-00-3	Chloroethane	ND	0.0030	mg/kg	
67-66-3	Chloroform	ND	0.0012	mg/kg	
74-87-3	Chloromethane	ND	0.0030	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0012	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0012	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0012	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0012	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.00061	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.00061	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.00061	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.00061	mg/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	0.0030	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0030	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.00061	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.00061	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.00061	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.00061	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.00061	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-7-0002		
Lab Sample ID:	JD29693-3	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	88.8
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0012	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0012	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0012	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0012	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0012	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0012	mg/kg	
100-41-4	Ethylbenzene	ND	0.00061	mg/kg	
76-13-1	Freon 113	ND	0.0030	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0030	mg/kg	
591-78-6	2-Hexanone	ND	0.0030	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0012	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0012	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.00061	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0030	mg/kg	
74-95-3	Methylene bromide	ND	0.0030	mg/kg	
75-09-2	Methylene chloride	ND	0.0030	mg/kg	
91-20-3	Naphthalene	ND	0.0030	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0012	mg/kg	
100-42-5	Styrene	ND	0.0012	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0012	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0012	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0012	mg/kg	
109-99-9	Tetrahydrofuran	ND	0.0061	mg/kg	
108-88-3	Toluene	ND	0.00061	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0030	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0030	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0012	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0012	mg/kg	
79-01-6	Trichloroethene	ND	0.00061	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0030	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0030	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0012	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0012	mg/kg	
75-01-4	Vinyl chloride	ND	0.0012	mg/kg	
	m,p-Xylene	ND	0.00061	mg/kg	
95-47-6	o-Xylene	ND	0.00061	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-7-0002		
Lab Sample ID:	JD29693-3	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	88.8
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	116%		75-131%
2037-26-5	Toluene-D8	109%		81-121%
460-00-4	4-Bromofluorobenzene	116%		60-141%

(a) Response factor for this compound is below 0.05 in the initial and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-7-0002		
Lab Sample ID:	JD29693-3	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	88.8
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101728.D	1	08/17/21 06:39	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2	4M101739.D	5	08/17/21 11:18	CS	08/11/21 15:28	OP34845A	E4M4741

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2	30.0 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	0.00497	0.0038	mg/kg	
208-96-8	Acenaphthylene	0.0354	0.0038	mg/kg	
120-12-7	Anthracene	0.0338	0.0038	mg/kg	
56-55-3	Benzo(a)anthracene	0.149	0.0038	mg/kg	
50-32-8	Benzo(a)pyrene	0.154	0.0038	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.265 [a]	0.019	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.122	0.0038	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.0767	0.0038	mg/kg	
218-01-9	Chrysene	0.173	0.0038	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0351	0.0038	mg/kg	
206-44-0	Fluoranthene	0.262 [a]	0.019	mg/kg	
86-73-7	Fluorene	0.00831	0.0038	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.123	0.0038	mg/kg	
91-20-3	Naphthalene	0.0180	0.0038	mg/kg	
85-01-8	Phenanthrene	0.142	0.0038	mg/kg	
129-00-0	Pyrene	0.258 [a]	0.019	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	59%	63%	39-90%
321-60-8	2-Fluorobiphenyl	58%	70%	35-84%
1718-51-0	Terphenyl-d14	59%	71%	42-95%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-7-0002		
Lab Sample ID:	JD29693-3	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	88.8
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40000.D	1	08/13/21 22:31	RK	08/12/21 09:55	OP34849	G8G1686
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00074	mg/kg	
15972-60-8	Alachlor	ND	0.0074	mg/kg	
319-84-6	alpha-BHC	ND	0.00074	mg/kg	
319-85-7	beta-BHC	ND	0.00074	mg/kg	
319-86-8	delta-BHC	ND	0.00074	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00074	mg/kg	
12789-03-6	Chlordane	ND	0.037	mg/kg	
60-57-1	Dieldrin	ND	0.00074	mg/kg	
72-54-8	4,4'-DDD	ND	0.00074	mg/kg	
72-55-9	4,4'-DDE	ND	0.00074	mg/kg	
50-29-3	4,4'-DDT	ND	0.00074	mg/kg	
72-20-8	Endrin	ND	0.00074	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00074	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00074	mg/kg	
959-98-8	Endosulfan-I	ND	0.00074	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00074	mg/kg	
76-44-8	Heptachlor	ND	0.00074	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00074	mg/kg	
72-43-5	Methoxychlor	ND	0.0015	mg/kg	
53494-70-5	Endrin ketone	ND	0.00074	mg/kg	
8001-35-2	Toxaphene	ND	0.018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		27-138%
877-09-8	Tetrachloro-m-xylene	99%		27-138%
2051-24-3	Decachlorobiphenyl	83%		10-179%
2051-24-3	Decachlorobiphenyl	119%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-7-0002		
Lab Sample ID:	JD29693-3	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3540C	**Percent Solids:**	88.8
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2469725.D	1	08/18/21 23:44	RK	08/17/21 17:45	OP34955	GXX7544
Run #2							

	Initial Weight	Final Volume
Run #1	10.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.055	mg/kg	
11104-28-2	Aroclor 1221	ND	0.055	mg/kg	
11141-16-5	Aroclor 1232	ND	0.055	mg/kg	
53469-21-9	Aroclor 1242	ND	0.055	mg/kg	
12672-29-6	Aroclor 1248	ND	0.055	mg/kg	
11097-69-1	Aroclor 1254	0.335	0.055	mg/kg	
11096-82-5	Aroclor 1260	ND	0.055	mg/kg	
11100-14-4	Aroclor 1268	ND	0.055	mg/kg	
37324-23-5	Aroclor 1262	ND	0.055	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	132%		24-152%
877-09-8	Tetrachloro-m-xylene	118%		24-152%
2051-24-3	Decachlorobiphenyl	123%		10-172%
2051-24-3	Decachlorobiphenyl	140%		10-172%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-7-0002		
Lab Sample ID:	JD29693-3	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3546	**Percent Solids:**	88.8
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y40003.D	1	08/12/21 22:36	TL	08/12/21 09:35	OP34853	G8Y1645
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	91.2	7.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	44%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-7-0002		
Lab Sample ID:	JD29693-3	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	88.8
Project:	43 Hempstead Street, New London, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.3	2.3	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	9.8	2.3	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	149	23	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.62	0.23	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	0.74	0.56	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	13.2	1.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	67.3	2.8	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	449	2.3	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.65	0.033	mg/kg	1	08/20/21	08/20/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	11.7	4.5	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	0.78	0.56	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	35.2	5.6	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	217	5.6	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA51006
(2) Instrument QC Batch: MA51015
(3) Prep QC Batch: MP28177
(4) Prep QC Batch: MP28186

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-7-0507		
Lab Sample ID:	JD29693-4	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	79.4
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180095.D	1	08/12/21 19:40	PS	n/a	n/a	V1C7850
Run #2							

	Initial Weight
Run #1	11.1 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	0.0078	0.0057	mg/kg	
107-13-1	Acrylonitrile	ND	0.0057	mg/kg	
71-43-2	Benzene	ND	0.00028	mg/kg	
108-86-1	Bromobenzene	ND	0.0028	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0011	mg/kg	
75-25-2	Bromoform	ND	0.0028	mg/kg	
74-83-9	Bromomethane	ND	0.0028	mg/kg	
78-93-3	2-Butanone (MEK) [a]	ND	0.0057	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0011	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0011	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0011	mg/kg	
75-15-0	Carbon disulfide	ND	0.0011	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0011	mg/kg	
108-90-7	Chlorobenzene	ND	0.0011	mg/kg	
75-00-3	Chloroethane	ND	0.0028	mg/kg	
67-66-3	Chloroform	ND	0.0011	mg/kg	
74-87-3	Chloromethane	ND	0.0028	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0011	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0011	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0011	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0011	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.00057	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.00057	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.00057	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.00057	mg/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	0.0028	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0028	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.00057	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.00057	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.00057	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.00057	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.00057	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-7-0507		
Lab Sample ID:	JD29693-4	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	79.4
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0011	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0011	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0011	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0011	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0011	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0011	mg/kg	
100-41-4	Ethylbenzene	ND	0.00057	mg/kg	
76-13-1	Freon 113	ND	0.0028	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0028	mg/kg	
591-78-6	2-Hexanone	ND	0.0028	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0011	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0011	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.00057	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0028	mg/kg	
74-95-3	Methylene bromide	ND	0.0028	mg/kg	
75-09-2	Methylene chloride	ND	0.0028	mg/kg	
91-20-3	Naphthalene	ND	0.0028	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0011	mg/kg	
100-42-5	Styrene	ND	0.0011	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0011	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0011	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0011	mg/kg	
109-99-9	Tetrahydrofuran	ND	0.0057	mg/kg	
108-88-3	Toluene	ND	0.00057	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0028	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0028	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0011	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0011	mg/kg	
79-01-6	Trichloroethene	ND	0.00057	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0028	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0028	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0011	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0011	mg/kg	
75-01-4	Vinyl chloride	ND	0.0011	mg/kg	
	m,p-Xylene	ND	0.00057	mg/kg	
95-47-6	o-Xylene	ND	0.00057	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-7-0507		
Lab Sample ID:	JD29693-4	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	79.4
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	112%		75-131%
2037-26-5	Toluene-D8	102%		81-121%
460-00-4	4-Bromofluorobenzene	101%		60-141%

(a) Response factor for this compound is below 0.05 in the initial and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-7-0507		
Lab Sample ID:	JD29693-4	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	79.4
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101722.D	1	08/17/21 04:29	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.0042	mg/kg	
208-96-8	Acenaphthylene	ND	0.0042	mg/kg	
120-12-7	Anthracene	ND	0.0042	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.0042	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.0042	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.0042	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.0042	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.0042	mg/kg	
218-01-9	Chrysene	ND	0.0042	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0042	mg/kg	
206-44-0	Fluoranthene	ND	0.0042	mg/kg	
86-73-7	Fluorene	ND	0.0042	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0042	mg/kg	
91-20-3	Naphthalene	ND	0.0042	mg/kg	
85-01-8	Phenanthrene	ND	0.0042	mg/kg	
129-00-0	Pyrene	ND	0.0042	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		39-90%
321-60-8	2-Fluorobiphenyl	71%		35-84%
1718-51-0	Terphenyl-d14	73%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-7-0507		
Lab Sample ID:	JD29693-4	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	79.4
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40001.D	1	08/13/21 22:47	RK	08/12/21 09:55	OP34849	G8G1686
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00082	mg/kg	
15972-60-8	Alachlor	ND	0.0082	mg/kg	
319-84-6	alpha-BHC	ND	0.00082	mg/kg	
319-85-7	beta-BHC	ND	0.00082	mg/kg	
319-86-8	delta-BHC	ND	0.00082	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00082	mg/kg	
12789-03-6	Chlordane	ND	0.041	mg/kg	
60-57-1	Dieldrin	ND	0.00082	mg/kg	
72-54-8	4,4'-DDD	ND	0.00082	mg/kg	
72-55-9	4,4'-DDE	ND	0.00082	mg/kg	
50-29-3	4,4'-DDT	ND	0.00082	mg/kg	
72-20-8	Endrin	ND	0.00082	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00082	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00082	mg/kg	
959-98-8	Endosulfan-I	ND	0.00082	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00082	mg/kg	
76-44-8	Heptachlor	ND	0.00082	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00082	mg/kg	
72-43-5	Methoxychlor	ND	0.0016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00082	mg/kg	
8001-35-2	Toxaphene	ND	0.021	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	69%		27-138%
877-09-8	Tetrachloro-m-xylene	72%		27-138%
2051-24-3	Decachlorobiphenyl	66%		10-179%
2051-24-3	Decachlorobiphenyl	67%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-7-0507		
Lab Sample ID:	JD29693-4	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3540C	**Percent Solids:**	79.4
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G109273.D	1	08/14/21 01:38	TC	08/12/21 16:10	OP34850	G5G2755
Run #2							

	Initial Weight	Final Volume
Run #1	11.7 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016 [a]	ND	0.054	mg/kg	
11104-28-2	Aroclor 1221	ND	0.054	mg/kg	
11141-16-5	Aroclor 1232	ND	0.054	mg/kg	
53469-21-9	Aroclor 1242	ND	0.054	mg/kg	
12672-29-6	Aroclor 1248	ND	0.054	mg/kg	
11097-69-1	Aroclor 1254	ND	0.054	mg/kg	
11096-82-5	Aroclor 1260 [a]	ND	0.054	mg/kg	
11100-14-4	Aroclor 1268	ND	0.054	mg/kg	
37324-23-5	Aroclor 1262	ND	0.054	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	118%		24-152%
877-09-8	Tetrachloro-m-xylene	115%		24-152%
2051-24-3	Decachlorobiphenyl	128%		10-172%
2051-24-3	Decachlorobiphenyl	107%		10-172%

(a) This compound outside control limits biased high in the associated BS.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-7-0507		
Lab Sample ID:	JD29693-4	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3546	**Percent Solids:**	79.4
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y39998.D	1	08/12/21 19:17	TL	08/12/21 09:35	OP34853	G8Y1645
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	8.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	61%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-7-0507		
Lab Sample ID:	JD29693-4	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	79.4
Project:	43 Hempstead Street, New London, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.5	2.5	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	3.1	2.5	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	38.8	25	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.54	0.25	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.62	0.62	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	15.1	1.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	5.7	3.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	7.3	2.5	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.039	0.039	mg/kg	1	08/20/21	08/20/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	7.3	5.0	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.5	2.5	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	0.69	0.62	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	24.9	6.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	20.6	6.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA51006
(2) Instrument QC Batch: MA51015
(3) Prep QC Batch: MP28177
(4) Prep QC Batch: MP28186

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-9-0002		
Lab Sample ID:	JD29693-5	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	87.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180096.D	1	08/12/21 20:07	PS	n/a	n/a	V1C7850
Run #2							

	Initial Weight
Run #1	7.7 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.0075	mg/kg	
107-13-1	Acrylonitrile	ND	0.0075	mg/kg	
71-43-2	Benzene	ND	0.00037	mg/kg	
108-86-1	Bromobenzene	ND	0.0037	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0015	mg/kg	
75-25-2	Bromoform	ND	0.0037	mg/kg	
74-83-9	Bromomethane	ND	0.0037	mg/kg	
78-93-3	2-Butanone (MEK) [a]	ND	0.0075	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0015	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0015	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0015	mg/kg	
75-15-0	Carbon disulfide	ND	0.0015	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0015	mg/kg	
108-90-7	Chlorobenzene	ND	0.0015	mg/kg	
75-00-3	Chloroethane	ND	0.0037	mg/kg	
67-66-3	Chloroform	ND	0.0015	mg/kg	
74-87-3	Chloromethane	ND	0.0037	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0015	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0015	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0015	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0015	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.00075	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.00075	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.00075	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.00075	mg/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	0.0037	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0037	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.00075	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.00075	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.00075	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.00075	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.00075	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-9-0002		
Lab Sample ID:	JD29693-5	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	87.0
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0015	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0015	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0015	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0015	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0015	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0015	mg/kg	
100-41-4	Ethylbenzene	ND	0.00075	mg/kg	
76-13-1	Freon 113	ND	0.0037	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0037	mg/kg	
591-78-6	2-Hexanone	ND	0.0037	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0015	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0015	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.00075	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0037	mg/kg	
74-95-3	Methylene bromide	ND	0.0037	mg/kg	
75-09-2	Methylene chloride	ND	0.0037	mg/kg	
91-20-3	Naphthalene	ND	0.0037	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0015	mg/kg	
100-42-5	Styrene	ND	0.0015	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0015	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0015	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0015	mg/kg	
109-99-9	Tetrahydrofuran	ND	0.0075	mg/kg	
108-88-3	Toluene	ND	0.00075	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0037	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0037	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0015	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0015	mg/kg	
79-01-6	Trichloroethene	ND	0.00075	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0037	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0037	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0015	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0015	mg/kg	
75-01-4	Vinyl chloride	ND	0.0015	mg/kg	
	m,p-Xylene	ND	0.00075	mg/kg	
95-47-6	o-Xylene	ND	0.00075	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-9-0002		
Lab Sample ID:	JD29693-5	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	87.0
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	116%		75-131%
2037-26-5	Toluene-D8	104%		81-121%
460-00-4	4-Bromofluorobenzene	106%		60-141%

(a) Response factor for this compound is below 0.05 in the initial and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-9-0002		
Lab Sample ID:	JD29693-5	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	87.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101725.D	1	08/17/21 05:34	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.0038	mg/kg	
208-96-8	Acenaphthylene	0.00537	0.0038	mg/kg	
120-12-7	Anthracene	0.00619	0.0038	mg/kg	
56-55-3	Benzo(a)anthracene	0.0334	0.0038	mg/kg	
50-32-8	Benzo(a)pyrene	0.0390	0.0038	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.0594	0.0038	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.0353	0.0038	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.0219	0.0038	mg/kg	
218-01-9	Chrysene	0.0378	0.0038	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.00849	0.0038	mg/kg	
206-44-0	Fluoranthene	0.0499	0.0038	mg/kg	
86-73-7	Fluorene	ND	0.0038	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0334	0.0038	mg/kg	
91-20-3	Naphthalene	ND	0.0038	mg/kg	
85-01-8	Phenanthrene	0.0270	0.0038	mg/kg	
129-00-0	Pyrene	0.0517	0.0038	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	53%		39-90%
321-60-8	2-Fluorobiphenyl	52%		35-84%
1718-51-0	Terphenyl-d14	54%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-9-0002		
Lab Sample ID:	JD29693-5	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	87.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40002.D	1	08/13/21 23:04	RK	08/12/21 09:55	OP34849	G8G1686
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00073	mg/kg	
15972-60-8	Alachlor	ND	0.0073	mg/kg	
319-84-6	alpha-BHC	ND	0.00073	mg/kg	
319-85-7	beta-BHC	ND	0.00073	mg/kg	
319-86-8	delta-BHC	ND	0.00073	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00073	mg/kg	
12789-03-6	Chlordane	ND	0.037	mg/kg	
60-57-1	Dieldrin	ND	0.00073	mg/kg	
72-54-8	4,4'-DDD	ND	0.00073	mg/kg	
72-55-9	4,4'-DDE	ND	0.00073	mg/kg	
50-29-3	4,4'-DDT [a]	0.0082	0.00073	mg/kg	
72-20-8	Endrin	ND	0.00073	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00073	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00073	mg/kg	
959-98-8	Endosulfan-I	ND	0.00073	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00073	mg/kg	
76-44-8	Heptachlor	ND	0.00073	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00073	mg/kg	
72-43-5	Methoxychlor	ND	0.0015	mg/kg	
53494-70-5	Endrin ketone	ND	0.00073	mg/kg	
8001-35-2	Toxaphene	ND	0.018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	89%		27-138%
877-09-8	Tetrachloro-m-xylene	101%		27-138%
2051-24-3	Decachlorobiphenyl	88%		10-179%
2051-24-3	Decachlorobiphenyl	131%		10-179%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-9-0002		
Lab Sample ID:	JD29693-5	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3540C	**Percent Solids:**	87.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G109274.D	1	08/14/21 02:11	TC	08/12/21 16:10	OP34850	G5G2755
Run #2							

	Initial Weight	Final Volume
Run #1	10.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.057	mg/kg	
11104-28-2	Aroclor 1221	ND	0.057	mg/kg	
11141-16-5	Aroclor 1232	ND	0.057	mg/kg	
53469-21-9	Aroclor 1242	ND	0.057	mg/kg	
12672-29-6	Aroclor 1248	ND	0.057	mg/kg	
11097-69-1	Aroclor 1254	ND	0.057	mg/kg	
11096-82-5	Aroclor 1260 [a]	ND	0.057	mg/kg	
11100-14-4	Aroclor 1268	ND	0.057	mg/kg	
37324-23-5	Aroclor 1262	ND	0.057	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	82%		24-152%
877-09-8	Tetrachloro-m-xylene	84%		24-152%
2051-24-3	Decachlorobiphenyl	122%		10-172%
2051-24-3	Decachlorobiphenyl	66%		10-172%

(a) Associated CCV outside of control limits high, sample was ND.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-9-0002		
Lab Sample ID:	JD29693-5	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3546	**Percent Solids:**	87.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y39999.D	1	08/12/21 19:57	TL	08/12/21 09:35	OP34853	G8Y1645
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	38.1	7.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	50%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-9-0002		
Lab Sample ID:	JD29693-5	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	87.0
Project:	43 Hempstead Street, New London, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.3	2.3	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	8.2	2.3	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	43.1	23	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.57	0.23	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.59	0.59	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	13.1	1.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	16.7	2.9	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	46.1	2.3	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.088	0.030	mg/kg	1	08/20/21	08/20/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	15.7	4.7	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	0.67	0.59	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	88.7	5.9	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	57.3	5.9	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA51006
(2) Instrument QC Batch: MA51015
(3) Prep QC Batch: MP28177
(4) Prep QC Batch: MP28186

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-9-0305		
Lab Sample ID:	JD29693-6	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	93.4
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180097.D	1	08/12/21 20:35	PS	n/a	n/a	V1C7850
Run #2							

	Initial Weight
Run #1	8.9 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	0.010	0.0060	mg/kg	
107-13-1	Acrylonitrile	ND	0.0060	mg/kg	
71-43-2	Benzene	ND	0.00030	mg/kg	
108-86-1	Bromobenzene	ND	0.0030	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0012	mg/kg	
75-25-2	Bromoform	ND	0.0030	mg/kg	
74-83-9	Bromomethane	ND	0.0030	mg/kg	
78-93-3	2-Butanone (MEK) [a]	ND	0.0060	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0012	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0012	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0012	mg/kg	
75-15-0	Carbon disulfide	ND	0.0012	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0012	mg/kg	
108-90-7	Chlorobenzene	ND	0.0012	mg/kg	
75-00-3	Chloroethane	ND	0.0030	mg/kg	
67-66-3	Chloroform	ND	0.0012	mg/kg	
74-87-3	Chloromethane	ND	0.0030	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0012	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0012	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0012	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0012	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.00060	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.00060	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.00060	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.00060	mg/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	0.0030	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0030	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.00060	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.00060	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.00060	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.00060	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.00060	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-9-0305		
Lab Sample ID:	JD29693-6	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	93.4
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0012	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0012	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0012	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0012	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0012	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0012	mg/kg	
100-41-4	Ethylbenzene	ND	0.00060	mg/kg	
76-13-1	Freon 113	ND	0.0030	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0030	mg/kg	
591-78-6	2-Hexanone	ND	0.0030	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0012	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0012	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.00060	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0030	mg/kg	
74-95-3	Methylene bromide	ND	0.0030	mg/kg	
75-09-2	Methylene chloride	ND	0.0030	mg/kg	
91-20-3	Naphthalene	ND	0.0030	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0012	mg/kg	
100-42-5	Styrene	ND	0.0012	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0012	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0012	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0012	mg/kg	
109-99-9	Tetrahydrofuran	ND	0.0060	mg/kg	
108-88-3	Toluene	ND	0.00060	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0030	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0030	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0012	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0012	mg/kg	
79-01-6	Trichloroethene	ND	0.00060	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0030	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0030	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0012	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0012	mg/kg	
75-01-4	Vinyl chloride	ND	0.0012	mg/kg	
	m,p-Xylene	ND	0.00060	mg/kg	
95-47-6	o-Xylene	ND	0.00060	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-9-0305		
Lab Sample ID:	JD29693-6	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	93.4
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	113%		75-131%
2037-26-5	Toluene-D8	104%		81-121%
460-00-4	4-Bromofluorobenzene	105%		60-141%

(a) Response factor for this compound is below 0.05 in the initial and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-9-0305		
Lab Sample ID:	JD29693-6	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	93.4
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101729.D	1	08/17/21 07:01	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.0035	mg/kg	
208-96-8	Acenaphthylene	ND	0.0035	mg/kg	
120-12-7	Anthracene	ND	0.0035	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.0035	mg/kg	
50-32-8	Benzo(a)pyrene	0.127	0.0035	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.0272	0.0035	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.0785	0.0035	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.0035	mg/kg	
218-01-9	Chrysene	0.0554	0.0035	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0103	0.0035	mg/kg	
206-44-0	Fluoranthene	0.00419	0.0035	mg/kg	
86-73-7	Fluorene	ND	0.0035	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0150	0.0035	mg/kg	
91-20-3	Naphthalene	0.00632	0.0035	mg/kg	
85-01-8	Phenanthrene	0.0234	0.0035	mg/kg	
129-00-0	Pyrene	0.0231	0.0035	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		39-90%
321-60-8	2-Fluorobiphenyl	63%		35-84%
1718-51-0	Terphenyl-d14	63%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-9-0305		
Lab Sample ID:	JD29693-6	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	93.4
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40003.D	1	08/13/21 23:20	RK	08/12/21 09:55	OP34849	G8G1686
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00067	mg/kg	
15972-60-8	Alachlor	ND	0.0067	mg/kg	
319-84-6	alpha-BHC	ND	0.00067	mg/kg	
319-85-7	beta-BHC	ND	0.00067	mg/kg	
319-86-8	delta-BHC	ND	0.00067	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00067	mg/kg	
12789-03-6	Chlordane	ND	0.034	mg/kg	
60-57-1	Dieldrin	ND	0.00067	mg/kg	
72-54-8	4,4'-DDD	ND	0.00067	mg/kg	
72-55-9	4,4'-DDE	ND	0.00067	mg/kg	
50-29-3	4,4'-DDT	ND	0.00067	mg/kg	
72-20-8	Endrin	ND	0.00067	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00067	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00067	mg/kg	
959-98-8	Endosulfan-I	ND	0.00067	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00067	mg/kg	
76-44-8	Heptachlor	ND	0.00067	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00067	mg/kg	
72-43-5	Methoxychlor	ND	0.0013	mg/kg	
53494-70-5	Endrin ketone	ND	0.00067	mg/kg	
8001-35-2	Toxaphene	ND	0.017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		27-138%
877-09-8	Tetrachloro-m-xylene	80%		27-138%
2051-24-3	Decachlorobiphenyl	73%		10-179%
2051-24-3	Decachlorobiphenyl	83%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-9-0305		
Lab Sample ID:	JD29693-6	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3540C	**Percent Solids:**	93.4
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G109279.D	1	08/14/21 04:57	TC	08/12/21 16:10	OP34850	G5G2755
Run #2							

	Initial Weight	Final Volume
Run #1	10.9 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016 [a]	ND	0.049	mg/kg	
11104-28-2	Aroclor 1221	ND	0.049	mg/kg	
11141-16-5	Aroclor 1232	ND	0.049	mg/kg	
53469-21-9	Aroclor 1242	ND	0.049	mg/kg	
12672-29-6	Aroclor 1248	ND	0.049	mg/kg	
11097-69-1	Aroclor 1254	ND	0.049	mg/kg	
11096-82-5	Aroclor 1260 [a]	ND	0.049	mg/kg	
11100-14-4	Aroclor 1268	ND	0.049	mg/kg	
37324-23-5	Aroclor 1262	ND	0.049	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	110%		24-152%
877-09-8	Tetrachloro-m-xylene	107%		24-152%
2051-24-3	Decachlorobiphenyl	115%		10-172%
2051-24-3	Decachlorobiphenyl	107%		10-172%

(a) This compound outside control limits biased high in the associated BS.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-9-0305		
Lab Sample ID:	JD29693-6	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3546	**Percent Solids:**	93.4
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y40004.D	1	08/12/21 23:14	TL	08/12/21 09:35	OP34853	G8Y1645
Run #2							

	Initial Weight	Final Volume
Run #1	16.6 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	59.0	6.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	57%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-9-0305		
Lab Sample ID:	JD29693-6	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	93.4
Project:	43 Hempstead Street, New London, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.2	2.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	4.1	2.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	23.3	22	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.71	0.22	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.54	0.54	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	13.8	1.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	9.5	2.7	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	5.7	2.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.029	0.029	mg/kg	1	08/20/21	08/20/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	18.0	4.3	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	0.77	0.54	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	170	5.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	51.1	5.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA51006
(2) Instrument QC Batch: MA51015
(3) Prep QC Batch: MP28177
(4) Prep QC Batch: MP28186

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-8-0002		
Lab Sample ID:	JD29693-7	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	80.6
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180098.D	1	08/12/21 21:02	PS	n/a	n/a	V1C7850
Run #2							

	Initial Weight
Run #1	9.7 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.0064	mg/kg	
107-13-1	Acrylonitrile	ND	0.0064	mg/kg	
71-43-2	Benzene	ND	0.00032	mg/kg	
108-86-1	Bromobenzene	ND	0.0032	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0013	mg/kg	
75-25-2	Bromoform	ND	0.0032	mg/kg	
74-83-9	Bromomethane	ND	0.0032	mg/kg	
78-93-3	2-Butanone (MEK) [a]	ND	0.0064	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0013	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0013	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0013	mg/kg	
75-15-0	Carbon disulfide	ND	0.0013	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0013	mg/kg	
108-90-7	Chlorobenzene	ND	0.0013	mg/kg	
75-00-3	Chloroethane	ND	0.0032	mg/kg	
67-66-3	Chloroform	ND	0.0013	mg/kg	
74-87-3	Chloromethane	ND	0.0032	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0013	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0013	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0013	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0013	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.00064	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.00064	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.00064	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.00064	mg/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	0.0032	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0032	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.00064	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.00064	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.00064	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.00064	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.00064	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-8-0002		
Lab Sample ID:	JD29693-7	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	80.6
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0013	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0013	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0013	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0013	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0013	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0013	mg/kg	
100-41-4	Ethylbenzene	ND	0.00064	mg/kg	
76-13-1	Freon 113	ND	0.0032	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0032	mg/kg	
591-78-6	2-Hexanone	ND	0.0032	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0013	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0013	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.00064	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0032	mg/kg	
74-95-3	Methylene bromide	ND	0.0032	mg/kg	
75-09-2	Methylene chloride	ND	0.0032	mg/kg	
91-20-3	Naphthalene	ND	0.0032	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0013	mg/kg	
100-42-5	Styrene	ND	0.0013	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0013	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0013	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0013	mg/kg	
109-99-9	Tetrahydrofuran	ND	0.0064	mg/kg	
108-88-3	Toluene	ND	0.00064	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0032	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0032	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0013	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0013	mg/kg	
79-01-6	Trichloroethene	ND	0.00064	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0032	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0032	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0013	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0013	mg/kg	
75-01-4	Vinyl chloride	ND	0.0013	mg/kg	
	m,p-Xylene	ND	0.00064	mg/kg	
95-47-6	o-Xylene	ND	0.00064	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-8-0002		
Lab Sample ID:	JD29693-7	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	80.6
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	113%		75-131%
2037-26-5	Toluene-D8	103%		81-121%
460-00-4	4-Bromofluorobenzene	101%		60-141%

(a) Response factor for this compound is below 0.05 in the initial and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-8-0002		
Lab Sample ID:	JD29693-7	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	80.6
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101733.D	1	08/17/21 08:30	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2	4M101740.D	10	08/17/21 11:40	CS	08/11/21 15:28	OP34845A	E4M4741

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2	30.4 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	0.0259	0.0041	mg/kg	
208-96-8	Acenaphthylene	0.0597	0.0041	mg/kg	
120-12-7	Anthracene	0.106	0.0041	mg/kg	
56-55-3	Benzo(a)anthracene	0.444 [a]	0.041	mg/kg	
50-32-8	Benzo(a)pyrene	0.428 [a]	0.041	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.593 [a]	0.041	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.314 [a]	0.041	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.152	0.0041	mg/kg	
218-01-9	Chrysene	0.418 [a]	0.041	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0725	0.0041	mg/kg	
206-44-0	Fluoranthene	0.788 [a]	0.041	mg/kg	
86-73-7	Fluorene	0.0272	0.0041	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.298 [a]	0.041	mg/kg	
91-20-3	Naphthalene	0.0422	0.0041	mg/kg	
85-01-8	Phenanthrene	0.475 [a]	0.041	mg/kg	
129-00-0	Pyrene	0.799 [a]	0.041	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	60%	66%	39-90%
321-60-8	2-Fluorobiphenyl	60%	75%	35-84%
1718-51-0	Terphenyl-d14	61%	75%	42-95%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-8-0002		
Lab Sample ID:	JD29693-7	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	80.6
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40004.D	1	08/13/21 23:36	RK	08/12/21 09:55	OP34849	G8G1686
Run #2	8G40024.D	5	08/16/21 14:18	TC	08/12/21 09:55	OP34849	G8G1688

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2	15.6 g	10.0 ml

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00080	mg/kg	
15972-60-8	Alachlor	ND	0.0080	mg/kg	
319-84-6	alpha-BHC	ND	0.00080	mg/kg	
319-85-7	beta-BHC	ND	0.00080	mg/kg	
319-86-8	delta-BHC	ND	0.00080	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00080	mg/kg	
12789-03-6	Chlordane	ND	0.040	mg/kg	
60-57-1	Dieldrin	ND	0.00080	mg/kg	
72-54-8	4,4'-DDD [a]	0.0116	0.00080	mg/kg	
72-55-9	4,4'-DDE	0.0356	0.00080	mg/kg	
50-29-3	4,4'-DDT	0.208 [b]	0.0040	mg/kg	
72-20-8	Endrin	ND	0.00080	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00080	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00080	mg/kg	
959-98-8	Endosulfan-I	ND	0.00080	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00080	mg/kg	
76-44-8	Heptachlor	ND	0.00080	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00080	mg/kg	
72-43-5	Methoxychlor	ND	0.0016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00080	mg/kg	
8001-35-2	Toxaphene	ND	0.020	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%	110%	27-138%
877-09-8	Tetrachloro-m-xylene	129%	109%	27-138%
2051-24-3	Decachlorobiphenyl	104%	170%	10-179%
2051-24-3	Decachlorobiphenyl	283% [c]	276% [c]	10-179%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Result is from Run# 2
(c) Outside control limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-8-0002		
Lab Sample ID:	JD29693-7	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3540C	**Percent Solids:**	80.6
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2469732.D	1	08/19/21 01:46	RK	08/17/21 17:45	OP34955	GXX7544
Run #2							

	Initial Weight	Final Volume
Run #1	10.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.060	mg/kg	
11104-28-2	Aroclor 1221	ND	0.060	mg/kg	
11141-16-5	Aroclor 1232	ND	0.060	mg/kg	
53469-21-9	Aroclor 1242	ND	0.060	mg/kg	
12672-29-6	Aroclor 1248	ND	0.060	mg/kg	
11097-69-1	Aroclor 1254 [a]	0.233	0.060	mg/kg	
11096-82-5	Aroclor 1260	ND	0.060	mg/kg	
11100-14-4	Aroclor 1268	ND	0.060	mg/kg	
37324-23-5	Aroclor 1262	ND	0.060	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	125%		24-152%
877-09-8	Tetrachloro-m-xylene	127%		24-152%
2051-24-3	Decachlorobiphenyl	118%		10-172%
2051-24-3	Decachlorobiphenyl	145%		10-172%

(a) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-8-0002		
Lab Sample ID:	JD29693-7	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3546	**Percent Solids:**	80.6
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y40006.D	1	08/13/21 00:31	TL	08/12/21 09:35	OP34853	G8Y1645
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	177	8.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	62%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-8-0002		
Lab Sample ID:	JD29693-7	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	80.6
Project:	43 Hempstead Street, New London, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.5	2.5	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	6.3	2.5	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	98.2	25	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.62	0.25	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	0.95	0.63	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	14.7	1.3	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	30.3	3.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	210	2.5	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.24	0.033	mg/kg	1	08/20/21	08/20/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	9.4	5.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.5	2.5	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	0.71	0.63	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.3	1.3	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	21.8	6.3	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	154	6.3	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA51006
(2) Instrument QC Batch: MA51015
(3) Prep QC Batch: MP28177
(4) Prep QC Batch: MP28186

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD29693-8	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	82.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180099.D	1	08/12/21 21:30	PS	n/a	n/a	V1C7850
Run #2							

	Initial Weight
Run #1	8.3 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.0073	mg/kg	
107-13-1	Acrylonitrile	ND	0.0073	mg/kg	
71-43-2	Benzene	ND	0.00037	mg/kg	
108-86-1	Bromobenzene	ND	0.0037	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0015	mg/kg	
75-25-2	Bromoform	ND	0.0037	mg/kg	
74-83-9	Bromomethane	ND	0.0037	mg/kg	
78-93-3	2-Butanone (MEK) [a]	ND	0.0073	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0015	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0015	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0015	mg/kg	
75-15-0	Carbon disulfide	ND	0.0015	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0015	mg/kg	
108-90-7	Chlorobenzene	ND	0.0015	mg/kg	
75-00-3	Chloroethane	ND	0.0037	mg/kg	
67-66-3	Chloroform	ND	0.0015	mg/kg	
74-87-3	Chloromethane	ND	0.0037	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0015	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0015	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0015	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0015	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.00073	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.00073	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.00073	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.00073	mg/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	0.0037	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0037	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.00073	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.00073	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.00073	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.00073	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.00073	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD29693-8	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	82.0
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0015	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0015	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0015	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0015	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0015	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0015	mg/kg	
100-41-4	Ethylbenzene	ND	0.00073	mg/kg	
76-13-1	Freon 113	ND	0.0037	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0037	mg/kg	
591-78-6	2-Hexanone	ND	0.0037	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0015	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0015	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.00073	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0037	mg/kg	
74-95-3	Methylene bromide	ND	0.0037	mg/kg	
75-09-2	Methylene chloride	ND	0.0037	mg/kg	
91-20-3	Naphthalene	ND	0.0037	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0015	mg/kg	
100-42-5	Styrene	ND	0.0015	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0015	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0015	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0015	mg/kg	
109-99-9	Tetrahydrofuran	ND	0.0073	mg/kg	
108-88-3	Toluene	ND	0.00073	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0037	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0037	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0015	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0015	mg/kg	
79-01-6	Trichloroethene	ND	0.00073	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0037	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0037	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0015	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0015	mg/kg	
75-01-4	Vinyl chloride	ND	0.0015	mg/kg	
	m,p-Xylene	ND	0.00073	mg/kg	
95-47-6	o-Xylene	ND	0.00073	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD29693-8	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	82.0
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	119%		75-131%
2037-26-5	Toluene-D8	102%		81-121%
460-00-4	4-Bromofluorobenzene	102%		60-141%

(a) Response factor for this compound is below 0.05 in the initial and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD29693-8	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	82.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101734.D	1	08/17/21 08:52	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2	4M101741.D	10	08/17/21 12:02	CS	08/11/21 15:28	OP34845A	E4M4741

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2	30.1 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	0.0459	0.0041	mg/kg	
208-96-8	Acenaphthylene	0.0953	0.0041	mg/kg	
120-12-7	Anthracene	0.184	0.0041	mg/kg	
56-55-3	Benzo(a)anthracene	1.05 [a]	0.041	mg/kg	
50-32-8	Benzo(a)pyrene	0.969 [a]	0.041	mg/kg	
205-99-2	Benzo(b)fluoranthene	1.33 [a]	0.041	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.661 [a]	0.041	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.509 [a]	0.041	mg/kg	
218-01-9	Chrysene	0.957 [a]	0.041	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.147	0.0041	mg/kg	
206-44-0	Fluoranthene	1.72 [a]	0.041	mg/kg	
86-73-7	Fluorene	0.0436	0.0041	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.656 [a]	0.041	mg/kg	
91-20-3	Naphthalene	0.139	0.0041	mg/kg	
85-01-8	Phenanthrene	0.765 [a]	0.041	mg/kg	
129-00-0	Pyrene	1.72 [a]	0.041	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%	81%	39-90%
321-60-8	2-Fluorobiphenyl	68%	90% [b]	35-84%
1718-51-0	Terphenyl-d14	62%	84%	42-95%

(a) Result is from Run# 2
(b) Outside of in house control limits due to dilution, but within reasonable method recovery limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD29693-8	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	82.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40005.D	1	08/13/21 23:53	RK	08/12/21 09:55	OP34849	G8G1686
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00079	mg/kg	
15972-60-8	Alachlor	ND	0.0079	mg/kg	
319-84-6	alpha-BHC	ND	0.00079	mg/kg	
319-85-7	beta-BHC	ND	0.00079	mg/kg	
319-86-8	delta-BHC	ND	0.00079	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00079	mg/kg	
12789-03-6	Chlordane	ND	0.040	mg/kg	
60-57-1	Dieldrin	ND	0.00079	mg/kg	
72-54-8	4,4'-DDD	0.0047	0.00079	mg/kg	
72-55-9	4,4'-DDE	0.0134	0.00079	mg/kg	
50-29-3	4,4'-DDT	0.0609	0.00079	mg/kg	
72-20-8	Endrin	ND	0.00079	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00079	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00079	mg/kg	
959-98-8	Endosulfan-I	ND	0.00079	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00079	mg/kg	
76-44-8	Heptachlor	ND	0.00079	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00079	mg/kg	
72-43-5	Methoxychlor	ND	0.0016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00079	mg/kg	
8001-35-2	Toxaphene	ND	0.020	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		27-138%
877-09-8	Tetrachloro-m-xylene	72%		27-138%
2051-24-3	Decachlorobiphenyl	68%		10-179%
2051-24-3	Decachlorobiphenyl	131%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD29693-8	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3540C	**Percent Solids:**	82.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2469733.D	1	08/19/21 02:03	RK	08/17/21 17:45	OP34955	GXX7544
Run #2							

	Initial Weight	Final Volume
Run #1	10.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.060	mg/kg	
11104-28-2	Aroclor 1221	ND	0.060	mg/kg	
11141-16-5	Aroclor 1232	ND	0.060	mg/kg	
53469-21-9	Aroclor 1242	ND	0.060	mg/kg	
12672-29-6	Aroclor 1248	ND	0.060	mg/kg	
11097-69-1	Aroclor 1254 [a]	0.413	0.060	mg/kg	
11096-82-5	Aroclor 1260	ND	0.060	mg/kg	
11100-14-4	Aroclor 1268	ND	0.060	mg/kg	
37324-23-5	Aroclor 1262	ND	0.060	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	111%		24-152%
877-09-8	Tetrachloro-m-xylene	113%		24-152%
2051-24-3	Decachlorobiphenyl	113%		10-172%
2051-24-3	Decachlorobiphenyl	143%		10-172%

(a) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it being used for confirmation only.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD29693-8	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3546	**Percent Solids:**	82.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y40007.D	1	08/13/21 01:10	TL	08/12/21 09:35	OP34853	G8Y1645
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	178	7.9	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	66%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD29693-8	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	82.0
Project:	43 Hempstead Street, New London, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.4	2.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	6.7	2.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	164	24	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.60	0.24	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	1.7	0.60	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	19.8	1.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	42.8	3.0	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	311	2.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.14	0.032	mg/kg	1	08/20/21	08/20/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	11.7	4.8	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.4	2.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	0.89	0.60	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	27.7	6.0	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	263	6.0	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA51006
(2) Instrument QC Batch: MA51015
(3) Prep QC Batch: MP28177
(4) Prep QC Batch: MP28186

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-8-0507		
Lab Sample ID:	JD29693-9	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	80.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180100.D	1	08/12/21 21:57	PS	n/a	n/a	V1C7850
Run #2							

	Initial Weight
Run #1	10.7 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	0.0101	0.0058	mg/kg	
107-13-1	Acrylonitrile	ND	0.0058	mg/kg	
71-43-2	Benzene	ND	0.00029	mg/kg	
108-86-1	Bromobenzene	ND	0.0029	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0012	mg/kg	
75-25-2	Bromoform	ND	0.0029	mg/kg	
74-83-9	Bromomethane	ND	0.0029	mg/kg	
78-93-3	2-Butanone (MEK) [a]	ND	0.0058	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0012	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0012	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0012	mg/kg	
75-15-0	Carbon disulfide	ND	0.0012	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0012	mg/kg	
108-90-7	Chlorobenzene	ND	0.0012	mg/kg	
75-00-3	Chloroethane	ND	0.0029	mg/kg	
67-66-3	Chloroform	ND	0.0012	mg/kg	
74-87-3	Chloromethane	ND	0.0029	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0012	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0012	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0012	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0012	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.00058	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.00058	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.00058	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.00058	mg/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	0.0029	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0029	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.00058	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.00058	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.00058	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.00058	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.00058	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-8-0507		
Lab Sample ID:	JD29693-9	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	80.9
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0012	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0012	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0012	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0012	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0012	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0012	mg/kg	
100-41-4	Ethylbenzene	ND	0.00058	mg/kg	
76-13-1	Freon 113	ND	0.0029	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0029	mg/kg	
591-78-6	2-Hexanone	ND	0.0029	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0012	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0012	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.00058	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0029	mg/kg	
74-95-3	Methylene bromide	ND	0.0029	mg/kg	
75-09-2	Methylene chloride	ND	0.0029	mg/kg	
91-20-3	Naphthalene	ND	0.0029	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0012	mg/kg	
100-42-5	Styrene	ND	0.0012	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0012	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0012	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0012	mg/kg	
109-99-9	Tetrahydrofuran	ND	0.0058	mg/kg	
108-88-3	Toluene	ND	0.00058	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0029	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0029	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0012	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0012	mg/kg	
79-01-6	Trichloroethene	ND	0.00058	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0029	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0029	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0012	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0012	mg/kg	
75-01-4	Vinyl chloride	ND	0.0012	mg/kg	
	m,p-Xylene	ND	0.00058	mg/kg	
95-47-6	o-Xylene	ND	0.00058	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-8-0507		
Lab Sample ID:	JD29693-9	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	80.9
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	111%		75-131%
2037-26-5	Toluene-D8	103%		81-121%
460-00-4	4-Bromofluorobenzene	101%		60-141%

(a) Response factor for this compound is below 0.05 in the initial and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-8-0507		
Lab Sample ID:	JD29693-9	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	80.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101721.D	1	08/17/21 04:08	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2							

	Initial Weight	Final Volume
Run #1	31.1 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.0040	mg/kg	
208-96-8	Acenaphthylene	ND	0.0040	mg/kg	
120-12-7	Anthracene	ND	0.0040	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.0040	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.0040	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.0040	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.0040	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.0040	mg/kg	
218-01-9	Chrysene	ND	0.0040	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0040	mg/kg	
206-44-0	Fluoranthene	ND	0.0040	mg/kg	
86-73-7	Fluorene	ND	0.0040	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0040	mg/kg	
91-20-3	Naphthalene	ND	0.0040	mg/kg	
85-01-8	Phenanthrene	ND	0.0040	mg/kg	
129-00-0	Pyrene	ND	0.0040	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	59%		39-90%
321-60-8	2-Fluorobiphenyl	58%		35-84%
1718-51-0	Terphenyl-d14	59%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-8-0507		
Lab Sample ID:	JD29693-9	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	80.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40006.D	1	08/14/21 00:09	RK	08/12/21 09:55	OP34849	G8G1686
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00082	mg/kg	
15972-60-8	Alachlor	ND	0.0082	mg/kg	
319-84-6	alpha-BHC	ND	0.00082	mg/kg	
319-85-7	beta-BHC	ND	0.00082	mg/kg	
319-86-8	delta-BHC	ND	0.00082	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00082	mg/kg	
12789-03-6	Chlordane	ND	0.041	mg/kg	
60-57-1	Dieldrin	ND	0.00082	mg/kg	
72-54-8	4,4'-DDD	ND	0.00082	mg/kg	
72-55-9	4,4'-DDE	ND	0.00082	mg/kg	
50-29-3	4,4'-DDT	ND	0.00082	mg/kg	
72-20-8	Endrin	ND	0.00082	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00082	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00082	mg/kg	
959-98-8	Endosulfan-I	ND	0.00082	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00082	mg/kg	
76-44-8	Heptachlor	ND	0.00082	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00082	mg/kg	
72-43-5	Methoxychlor	ND	0.0016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00082	mg/kg	
8001-35-2	Toxaphene	ND	0.021	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		27-138%
877-09-8	Tetrachloro-m-xylene	80%		27-138%
2051-24-3	Decachlorobiphenyl	67%		10-179%
2051-24-3	Decachlorobiphenyl	70%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-8-0507		
Lab Sample ID:	JD29693-9	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3540C	**Percent Solids:**	80.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G109281.D	1	08/14/21 06:03	TC	08/12/21 16:10	OP34850	G5G2755
Run #2							

	Initial Weight	Final Volume
Run #1	10.9 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016 [a]	ND	0.057	mg/kg	
11104-28-2	Aroclor 1221	ND	0.057	mg/kg	
11141-16-5	Aroclor 1232	ND	0.057	mg/kg	
53469-21-9	Aroclor 1242	ND	0.057	mg/kg	
12672-29-6	Aroclor 1248	ND	0.057	mg/kg	
11097-69-1	Aroclor 1254	ND	0.057	mg/kg	
11096-82-5	Aroclor 1260 [a]	ND	0.057	mg/kg	
11100-14-4	Aroclor 1268	ND	0.057	mg/kg	
37324-23-5	Aroclor 1262	ND	0.057	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	132%		24-152%
877-09-8	Tetrachloro-m-xylene	126%		24-152%
2051-24-3	Decachlorobiphenyl	159% [b]		10-172%
2051-24-3	Decachlorobiphenyl	127%		10-172%

(a) This compound outside control limits biased high in the associated BS.
(b) Outside program requirements due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-8-0507		
Lab Sample ID:	JD29693-9	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3546	**Percent Solids:**	80.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y40000.D	1	08/12/21 20:36	TL	08/12/21 09:35	OP34853	G8Y1645
Run #2							

	Initial Weight	Final Volume
Run #1	16.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	29.2	7.6	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	43%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-8-0507		
Lab Sample ID:	JD29693-9	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	80.9
Project:	43 Hempstead Street, New London, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.4	2.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	< 2.4	2.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	25.4	24	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.43	0.24	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.61	0.61	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	10.4	1.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	9.8	3.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	2.9	2.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.020	0.020	mg/kg	1	08/20/21	08/20/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	6.2	4.9	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.4	2.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.61	0.61	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	16.2	6.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	16.6	6.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA51006
(2) Instrument QC Batch: MA51015
(3) Prep QC Batch: MP28177
(4) Prep QC Batch: MP28186

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-6-0002		
Lab Sample ID:	JD29693-10	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	90.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180101.D	1	08/12/21 22:24	PS	n/a	n/a	V1C7850
Run #2							

	Initial Weight
Run #1	6.9 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.0080	mg/kg	
107-13-1	Acrylonitrile	ND	0.0080	mg/kg	
71-43-2	Benzene	ND	0.00040	mg/kg	
108-86-1	Bromobenzene	ND	0.0040	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0016	mg/kg	
75-25-2	Bromoform	ND	0.0040	mg/kg	
74-83-9	Bromomethane	ND	0.0040	mg/kg	
78-93-3	2-Butanone (MEK) [a]	ND	0.0080	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0016	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0016	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0016	mg/kg	
75-15-0	Carbon disulfide	ND	0.0016	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0016	mg/kg	
108-90-7	Chlorobenzene	ND	0.0016	mg/kg	
75-00-3	Chloroethane	ND	0.0040	mg/kg	
67-66-3	Chloroform	ND	0.0016	mg/kg	
74-87-3	Chloromethane	ND	0.0040	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0016	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0016	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0016	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0016	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.00080	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.00080	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.00080	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.00080	mg/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	0.0040	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0040	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.00080	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.00080	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.00080	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.00080	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.00080	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-0002		
Lab Sample ID:	JD29693-10	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	90.7
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0016	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0016	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0016	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0016	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0016	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0016	mg/kg	
100-41-4	Ethylbenzene	ND	0.00080	mg/kg	
76-13-1	Freon 113	ND	0.0040	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0040	mg/kg	
591-78-6	2-Hexanone	ND	0.0040	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0016	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0016	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.00080	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0040	mg/kg	
74-95-3	Methylene bromide	ND	0.0040	mg/kg	
75-09-2	Methylene chloride	ND	0.0040	mg/kg	
91-20-3	Naphthalene	ND	0.0040	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0016	mg/kg	
100-42-5	Styrene	ND	0.0016	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0016	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0016	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0016	mg/kg	
109-99-9	Tetrahydrofuran	ND	0.0080	mg/kg	
108-88-3	Toluene	ND	0.00080	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0040	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0040	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0016	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0016	mg/kg	
79-01-6	Trichloroethene	ND	0.00080	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0040	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0040	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0016	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0016	mg/kg	
75-01-4	Vinyl chloride	ND	0.0016	mg/kg	
	m,p-Xylene	ND	0.00080	mg/kg	
95-47-6	o-Xylene	ND	0.00080	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-0002		
Lab Sample ID:	JD29693-10	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	90.7
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	114%		75-131%
2037-26-5	Toluene-D8	107%		81-121%
460-00-4	4-Bromofluorobenzene	112%		60-141%

(a) Response factor for this compound is below 0.05 in the initial and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-0002		
Lab Sample ID:	JD29693-10	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	90.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101736.D	2	08/17/21 09:36	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2	4M101752.D	4	08/17/21 18:00	KLS	08/11/21 15:28	OP34845A	E4M4742

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2	30.4 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.0073	mg/kg	
208-96-8	Acenaphthylene	0.0541	0.0073	mg/kg	
120-12-7	Anthracene	0.0448	0.0073	mg/kg	
56-55-3	Benzo(a)anthracene	0.0895	0.0073	mg/kg	
50-32-8	Benzo(a)pyrene	0.0732	0.0073	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.172	0.0073	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.146	0.0073	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.0445	0.0073	mg/kg	
218-01-9	Chrysene	0.206	0.0073	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0233	0.0073	mg/kg	
206-44-0	Fluoranthene	0.175	0.0073	mg/kg	
86-73-7	Fluorene	0.0338	0.0073	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0842	0.0073	mg/kg	
91-20-3	Naphthalene	0.328	0.0073	mg/kg	
85-01-8	Phenanthrene	0.286	0.0073	mg/kg	
129-00-0	Pyrene	0.182	0.0073	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%	67%	39-90%
321-60-8	2-Fluorobiphenyl	64%	67%	35-84%
1718-51-0	Terphenyl-d14	63%	66%	42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-0002		
Lab Sample ID:	JD29693-10	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	90.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40007.D	1	08/14/21 00:26	RK	08/12/21 09:55	OP34849	G8G1686
Run #2							

	Initial Weight	Final Volume
Run #1	16.1 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00068	mg/kg	
15972-60-8	Alachlor	ND	0.0068	mg/kg	
319-84-6	alpha-BHC	ND	0.00068	mg/kg	
319-85-7	beta-BHC	ND	0.00068	mg/kg	
319-86-8	delta-BHC	ND	0.00068	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00068	mg/kg	
12789-03-6	Chlordane	ND	0.034	mg/kg	
60-57-1	Dieldrin	ND	0.00068	mg/kg	
72-54-8	4,4'-DDD	ND	0.00068	mg/kg	
72-55-9	4,4'-DDE [a]	0.0082	0.00068	mg/kg	
50-29-3	4,4'-DDT	0.0207	0.00068	mg/kg	
72-20-8	Endrin	ND	0.00068	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00068	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00068	mg/kg	
959-98-8	Endosulfan-I	ND	0.00068	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00068	mg/kg	
76-44-8	Heptachlor	ND	0.00068	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00068	mg/kg	
72-43-5	Methoxychlor	ND	0.0014	mg/kg	
53494-70-5	Endrin ketone	ND	0.00068	mg/kg	
8001-35-2	Toxaphene	ND	0.017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	62%		27-138%
877-09-8	Tetrachloro-m-xylene	83%		27-138%
2051-24-3	Decachlorobiphenyl	87%		10-179%
2051-24-3	Decachlorobiphenyl	530% [b]		10-179%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Outside control limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-0002		
Lab Sample ID:	JD29693-10	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3540C	**Percent Solids:**	90.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G109285.D	1	08/14/21 08:16	TC	08/12/21 16:10	OP34850	G5G2755
Run #2							

	Initial Weight	Final Volume
Run #1	10.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016 [a]	ND	0.054	mg/kg	
11104-28-2	Aroclor 1221	ND	0.054	mg/kg	
11141-16-5	Aroclor 1232	ND	0.054	mg/kg	
53469-21-9	Aroclor 1242	ND	0.054	mg/kg	
12672-29-6	Aroclor 1248	ND	0.054	mg/kg	
11097-69-1	Aroclor 1254	ND	0.054	mg/kg	
11096-82-5	Aroclor 1260 [a]	ND	0.054	mg/kg	
11100-14-4	Aroclor 1268	ND	0.054	mg/kg	
37324-23-5	Aroclor 1262	ND	0.054	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	84%		24-152%
877-09-8	Tetrachloro-m-xylene	80%		24-152%
2051-24-3	Decachlorobiphenyl	259% [b]		10-172%
2051-24-3	Decachlorobiphenyl	75%		10-172%

(a) This compound outside control limits biased high in the associated BS.
(b) Outside control limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-0002		
Lab Sample ID:	JD29693-10	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3546	**Percent Solids:**	90.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y40008.D	1	08/13/21 01:48	TL	08/12/21 09:35	OP34853	G8Y1645
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	214	7.4	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	48%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-0002		
Lab Sample ID:	JD29693-10	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	90.7
Project:	43 Hempstead Street, New London, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.1	2.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	51.9	2.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	115	21	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.68	0.21	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.53	0.53	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	9.8	1.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	22.9	2.6	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	95.2	2.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.16	0.035	mg/kg	1	08/20/21	08/20/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	9.5	4.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	3.3	2.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	0.58	0.53	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	49.3	5.3	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	22.4	5.3	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA51006
(2) Instrument QC Batch: MA51015
(3) Prep QC Batch: MP28177
(4) Prep QC Batch: MP28186

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-6-0305		
Lab Sample ID:	JD29693-11	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	85.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180121.D	1	08/13/21 15:44	TDN	n/a	n/a	V1C7851
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	0.0156	0.012	mg/kg	
107-13-1	Acrylonitrile	ND	0.012	mg/kg	
71-43-2	Benzene	ND	0.00058	mg/kg	
108-86-1	Bromobenzene	ND	0.0058	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0023	mg/kg	
75-25-2	Bromoform	ND	0.0058	mg/kg	
74-83-9	Bromomethane	ND	0.0058	mg/kg	
78-93-3	2-Butanone (MEK) [a]	ND	0.012	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0023	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0023	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0023	mg/kg	
75-15-0	Carbon disulfide	ND	0.0023	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0023	mg/kg	
108-90-7	Chlorobenzene	ND	0.0023	mg/kg	
75-00-3	Chloroethane	ND	0.0058	mg/kg	
67-66-3	Chloroform	ND	0.0023	mg/kg	
74-87-3	Chloromethane	ND	0.0058	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0023	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0023	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0023	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0023	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0012	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0012	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0012	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0012	mg/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	0.0058	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0058	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0012	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0012	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0012	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0012	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0012	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-0305		
Lab Sample ID:	JD29693-11	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	85.5
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0023	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0023	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0023	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0023	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0023	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0023	mg/kg	
100-41-4	Ethylbenzene	ND	0.0012	mg/kg	
76-13-1	Freon 113	ND	0.0058	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0058	mg/kg	
591-78-6	2-Hexanone	ND	0.0058	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0023	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0023	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0012	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0058	mg/kg	
74-95-3	Methylene bromide	ND	0.0058	mg/kg	
75-09-2	Methylene chloride	ND	0.0058	mg/kg	
91-20-3	Naphthalene	ND	0.0058	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0023	mg/kg	
100-42-5	Styrene	ND	0.0023	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0023	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0023	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0023	mg/kg	
109-99-9	Tetrahydrofuran	ND	0.012	mg/kg	
108-88-3	Toluene	ND	0.0012	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0058	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0058	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0023	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0023	mg/kg	
79-01-6	Trichloroethene	ND	0.0012	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0058	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0058	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0023	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0023	mg/kg	
75-01-4	Vinyl chloride	ND	0.0023	mg/kg	
	m,p-Xylene	ND	0.0012	mg/kg	
95-47-6	o-Xylene	ND	0.0012	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-0305		
Lab Sample ID:	JD29693-11	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	85.5
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	112%		75-131%
2037-26-5	Toluene-D8	113%		81-121%
460-00-4	4-Bromofluorobenzene	127%		60-141%

(a) Response factor for this compound is below 0.05 in the inital and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-0305		
Lab Sample ID:	JD29693-11	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	85.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101727.D	1	08/17/21 06:17	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2	4M101750.D	10	08/17/21 17:14	KLS	08/11/21 15:28	OP34845A	E4M4742
Run #3	4M101749.D	50	08/17/21 16:52	KLS	08/11/21 15:28	OP34845A	E4M4742

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2	30.3 g	1.0 ml
Run #3	30.3 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	0.247 [a]	0.039	mg/kg	
208-96-8	Acenaphthylene	0.394 [a]	0.039	mg/kg	
120-12-7	Anthracene	1.04 [a]	0.039	mg/kg	
56-55-3	Benzo(a)anthracene	1.45 [a]	0.039	mg/kg	
50-32-8	Benzo(a)pyrene	0.984 [a]	0.039	mg/kg	
205-99-2	Benzo(b)fluoranthene	1.37 [a]	0.039	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.539 [a]	0.039	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.448 [a]	0.039	mg/kg	
218-01-9	Chrysene	1.24 [a]	0.039	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.151	0.0039	mg/kg	
206-44-0	Fluoranthene	3.28 [b]	0.19	mg/kg	
86-73-7	Fluorene	0.609 [a]	0.039	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.581 [a]	0.039	mg/kg	
91-20-3	Naphthalene	1.49 [a]	0.039	mg/kg	
85-01-8	Phenanthrene	4.46 [b]	0.19	mg/kg	
129-00-0	Pyrene	2.95 [b]	0.19	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
4165-60-0	Nitrobenzene-d5	64%	74%	80%	39-90%
321-60-8	2-Fluorobiphenyl	60%	80%	89% [c]	35-84%
1718-51-0	Terphenyl-d14	55%	75%	87%	42-95%

(a) Result is from Run# 2
(b) Result is from Run# 3
(c) Outside of in house control limits but within RCP criteria limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-6-0305		
Lab Sample ID:	JD29693-11	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	85.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40008.D	1	08/14/21 00:42	RK	08/12/21 09:55	OP34849	G8G1686
Run #2	8G40025.D	5	08/16/21 14:34	TC	08/12/21 09:55	OP34849	G8G1688

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2	15.1 g	10.0 ml

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00077	mg/kg	
15972-60-8	Alachlor	ND	0.0077	mg/kg	
319-84-6	alpha-BHC	ND	0.00077	mg/kg	
319-85-7	beta-BHC	ND	0.00077	mg/kg	
319-86-8	delta-BHC	ND	0.00077	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00077	mg/kg	
12789-03-6	Chlordane	ND	0.039	mg/kg	
60-57-1	Dieldrin	ND	0.00077	mg/kg	
72-54-8	4,4'-DDD [a]	0.0751 [b]	0.0039	mg/kg	
72-55-9	4,4'-DDE	ND	0.00077	mg/kg	
50-29-3	4,4'-DDT	ND	0.00077	mg/kg	
72-20-8	Endrin	ND	0.00077	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00077	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00077	mg/kg	
959-98-8	Endosulfan-I	ND	0.00077	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00077	mg/kg	
76-44-8	Heptachlor	ND	0.00077	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00077	mg/kg	
72-43-5	Methoxychlor	ND	0.0015	mg/kg	
53494-70-5	Endrin ketone	ND	0.00077	mg/kg	
8001-35-2	Toxaphene	ND	0.019	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	151% [c]	161% [c]	27-138%
877-09-8	Tetrachloro-m-xylene	104%	94%	27-138%
2051-24-3	Decachlorobiphenyl	2609% [c]	1588% [c]	10-179%
2051-24-3	Decachlorobiphenyl	5118% [c]	4096% [c]	10-179%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Result is from Run# 2
(c) Outside control limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-6-0305		
Lab Sample ID:	JD29693-11	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3540C	**Percent Solids:**	85.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G109284.D	1	08/14/21 07:42	TC	08/12/21 16:10	OP34850	G5G2755
Run #2							

	Initial Weight	Final Volume
Run #1	10.7 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016 [a]	ND	0.055	mg/kg	
11104-28-2	Aroclor 1221	ND	0.055	mg/kg	
11141-16-5	Aroclor 1232	ND	0.055	mg/kg	
53469-21-9	Aroclor 1242	ND	0.055	mg/kg	
12672-29-6	Aroclor 1248	ND	0.055	mg/kg	
11097-69-1	Aroclor 1254	ND	0.055	mg/kg	
11096-82-5	Aroclor 1260 [a]	ND	0.055	mg/kg	
11100-14-4	Aroclor 1268	ND	0.055	mg/kg	
37324-23-5	Aroclor 1262	ND	0.055	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	73%		24-152%
877-09-8	Tetrachloro-m-xylene	76%		24-152%
2051-24-3	Decachlorobiphenyl	869% [b]		10-172%
2051-24-3	Decachlorobiphenyl	120%		10-172%

(a) This compound outside control limits biased high in the associated BS.
(b) Outside control limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-0305		
Lab Sample ID:	JD29693-11	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3546	**Percent Solids:**	85.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y40009.D	1	08/13/21 02:26	TL	08/12/21 09:35	OP34853	G8Y1645
Run #2	8Z40085.D	10	08/23/21 17:32	TL	08/12/21 09:35	OP34853	G8Z1731

	Initial Weight	Final Volume
Run #1	15.9 g	1.0 ml
Run #2	15.9 g	1.0 ml

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	2020 [a]	74	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	61%	113%	30-130%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-0305		
Lab Sample ID:	JD29693-11	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	85.5
Project:	43 Hempstead Street, New London, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	< 12	12	mg/kg	5	08/20/21	08/25/21	ND	SW846 6010D [3]	SW846 3050B [4]
Arsenic [a]	49.1	12	mg/kg	5	08/20/21	08/25/21	ND	SW846 6010D [3]	SW846 3050B [4]
Barium	34.3	24	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Beryllium [a]	< 1.2	1.2	mg/kg	5	08/20/21	08/25/21	ND	SW846 6010D [3]	SW846 3050B [4]
Cadmium [a]	< 3.0	3.0	mg/kg	5	08/20/21	08/25/21	ND	SW846 6010D [3]	SW846 3050B [4]
Chromium	11.6	1.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Copper [a]	20.3	15	mg/kg	5	08/20/21	08/25/21	ND	SW846 6010D [3]	SW846 3050B [4]
Lead [a]	55.3	12	mg/kg	5	08/20/21	08/25/21	ND	SW846 6010D [3]	SW846 3050B [4]
Mercury	0.091	0.033	mg/kg	1	08/20/21	08/20/21	LM	SW846 7471B [1]	SW846 7471B [5]
Nickel	7.7	4.7	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Selenium [a]	< 12	12	mg/kg	5	08/20/21	08/25/21	ND	SW846 6010D [3]	SW846 3050B [4]
Silver [a]	< 3.0	3.0	mg/kg	5	08/20/21	08/25/21	ND	SW846 6010D [3]	SW846 3050B [4]
Thallium	< 1.2	1.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Vanadium [a]	< 30	30	mg/kg	5	08/20/21	08/25/21	ND	SW846 6010D [3]	SW846 3050B [4]
Zinc	20.0	5.9	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA51006
(2) Instrument QC Batch: MA51015
(3) Instrument QC Batch: MA51029
(4) Prep QC Batch: MP28177
(5) Prep QC Batch: MP28186

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-5-0002		
Lab Sample ID:	JD29693-12	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	94.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180102.D	1	08/12/21 22:51	PS	n/a	n/a	V1C7850
Run #2							

	Initial Weight
Run #1	9.6 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.0055	mg/kg	
107-13-1	Acrylonitrile	ND	0.0055	mg/kg	
71-43-2	Benzene	ND	0.00028	mg/kg	
108-86-1	Bromobenzene	ND	0.0028	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0011	mg/kg	
75-25-2	Bromoform	ND	0.0028	mg/kg	
74-83-9	Bromomethane	ND	0.0028	mg/kg	
78-93-3	2-Butanone (MEK) [a]	ND	0.0055	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0011	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0011	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0011	mg/kg	
75-15-0	Carbon disulfide	ND	0.0011	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0011	mg/kg	
108-90-7	Chlorobenzene	ND	0.0011	mg/kg	
75-00-3	Chloroethane	ND	0.0028	mg/kg	
67-66-3	Chloroform	ND	0.0011	mg/kg	
74-87-3	Chloromethane	ND	0.0028	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0011	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0011	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0011	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0011	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.00055	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.00055	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.00055	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.00055	mg/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	0.0028	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0028	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.00055	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.00055	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.00055	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.00055	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.00055	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5-0002		
Lab Sample ID:	JD29693-12	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	94.5
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0011	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0011	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0011	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0011	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0011	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0011	mg/kg	
100-41-4	Ethylbenzene	ND	0.00055	mg/kg	
76-13-1	Freon 113	ND	0.0028	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0028	mg/kg	
591-78-6	2-Hexanone	ND	0.0028	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0011	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0011	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.00055	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0028	mg/kg	
74-95-3	Methylene bromide	ND	0.0028	mg/kg	
75-09-2	Methylene chloride	ND	0.0028	mg/kg	
91-20-3	Naphthalene	ND	0.0028	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0011	mg/kg	
100-42-5	Styrene	ND	0.0011	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0011	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0011	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0011	mg/kg	
109-99-9	Tetrahydrofuran	ND	0.0055	mg/kg	
108-88-3	Toluene	ND	0.00055	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0028	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0028	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0011	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0011	mg/kg	
79-01-6	Trichloroethene	ND	0.00055	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0028	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0028	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0011	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0011	mg/kg	
75-01-4	Vinyl chloride	ND	0.0011	mg/kg	
	m,p-Xylene	ND	0.00055	mg/kg	
95-47-6	o-Xylene	ND	0.00055	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5-0002		
Lab Sample ID:	JD29693-12	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	94.5
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	114%		75-131%
2037-26-5	Toluene-D8	103%		81-121%
460-00-4	4-Bromofluorobenzene	101%		60-141%

(a) Response factor for this compound is below 0.05 in the initial and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-5-0002		
Lab Sample ID:	JD29693-12	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	94.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101724.D	1	08/17/21 05:12	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.0035	mg/kg	
208-96-8	Acenaphthylene	ND	0.0035	mg/kg	
120-12-7	Anthracene	ND	0.0035	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.0035	mg/kg	
50-32-8	Benzo(a)pyrene	0.00352	0.0035	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.00642	0.0035	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.0035	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.0035	mg/kg	
218-01-9	Chrysene	0.00457	0.0035	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0035	mg/kg	
206-44-0	Fluoranthene	0.00764	0.0035	mg/kg	
86-73-7	Fluorene	ND	0.0035	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0035	mg/kg	
91-20-3	Naphthalene	ND	0.0035	mg/kg	
85-01-8	Phenanthrene	0.00550	0.0035	mg/kg	
129-00-0	Pyrene	0.00700	0.0035	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		39-90%
321-60-8	2-Fluorobiphenyl	64%		35-84%
1718-51-0	Terphenyl-d14	67%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-5-0002		
Lab Sample ID:	JD29693-12	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	94.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40179.D	1	08/24/21 15:35	TC	08/12/21 09:55	OP34849	G8G1698
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00067	mg/kg	
15972-60-8	Alachlor	ND	0.0067	mg/kg	
319-84-6	alpha-BHC	ND	0.00067	mg/kg	
319-85-7	beta-BHC	ND	0.00067	mg/kg	
319-86-8	delta-BHC	ND	0.00067	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00067	mg/kg	
12789-03-6	Chlordane	ND	0.033	mg/kg	
60-57-1	Dieldrin	ND	0.00067	mg/kg	
72-54-8	4,4'-DDD	ND	0.00067	mg/kg	
72-55-9	4,4'-DDE	ND	0.00067	mg/kg	
50-29-3	4,4'-DDT	ND	0.00067	mg/kg	
72-20-8	Endrin	ND	0.00067	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00067	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00067	mg/kg	
959-98-8	Endosulfan-I	ND	0.00067	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00067	mg/kg	
76-44-8	Heptachlor	ND	0.00067	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00067	mg/kg	
72-43-5	Methoxychlor	ND	0.0013	mg/kg	
53494-70-5	Endrin ketone	ND	0.00067	mg/kg	
8001-35-2	Toxaphene	ND	0.017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	64%		27-138%
877-09-8	Tetrachloro-m-xylene	69%		27-138%
2051-24-3	Decachlorobiphenyl	63%		10-179%
2051-24-3	Decachlorobiphenyl	72%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-5-0002		
Lab Sample ID:	JD29693-12	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3540C	**Percent Solids:**	94.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G109282.D	1	08/14/21 06:36	TC	08/12/21 16:10	OP34850	G5G2755
Run #2							

	Initial Weight	Final Volume
Run #1	11.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016 [a]	ND	0.048	mg/kg	
11104-28-2	Aroclor 1221	ND	0.048	mg/kg	
11141-16-5	Aroclor 1232	ND	0.048	mg/kg	
53469-21-9	Aroclor 1242	ND	0.048	mg/kg	
12672-29-6	Aroclor 1248	ND	0.048	mg/kg	
11097-69-1	Aroclor 1254	ND	0.048	mg/kg	
11096-82-5	Aroclor 1260 [a]	ND	0.048	mg/kg	
11100-14-4	Aroclor 1268	ND	0.048	mg/kg	
37324-23-5	Aroclor 1262	ND	0.048	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	114%		24-152%
877-09-8	Tetrachloro-m-xylene	114%		24-152%
2051-24-3	Decachlorobiphenyl	131%		10-172%
2051-24-3	Decachlorobiphenyl	130%		10-172%

(a) This compound outside control limits biased high in the associated BS.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5-0002		
Lab Sample ID:	JD29693-12	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3546	**Percent Solids:**	94.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y40001A.D	1	08/12/21 21:19	TL	08/12/21 09:35	OP34853	G8Y1645
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	16.7	6.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	60%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5-0002		
Lab Sample ID:	JD29693-12	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	94.5
Project:	43 Hempstead Street, New London, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.1	2.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	2.4	2.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	< 21	21	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.50	0.21	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.53	0.53	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	9.4	1.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	6.1	2.7	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	5.8	2.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.030	0.030	mg/kg	1	08/20/21	08/20/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	5.9	4.3	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.1	2.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	0.60	0.53	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	16.4	5.3	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	15.9	5.3	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA51006
(2) Instrument QC Batch: MA51015
(3) Prep QC Batch: MP28177
(4) Prep QC Batch: MP28186

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-05-0810		
Lab Sample ID:	JD29693-13	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	84.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180122.D	1	08/13/21 16:12	TDN	n/a	n/a	V1C7851
Run #2							

	Initial Weight
Run #1	11.7 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	0.0128	0.0050	mg/kg	
107-13-1	Acrylonitrile	ND	0.0050	mg/kg	
71-43-2	Benzene	ND	0.00025	mg/kg	
108-86-1	Bromobenzene	ND	0.0025	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0010	mg/kg	
75-25-2	Bromoform	ND	0.0025	mg/kg	
74-83-9	Bromomethane	ND	0.0025	mg/kg	
78-93-3	2-Butanone (MEK) [a]	ND	0.0050	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0010	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0010	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0010	mg/kg	
75-15-0	Carbon disulfide	ND	0.0010	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0010	mg/kg	
108-90-7	Chlorobenzene	ND	0.0010	mg/kg	
75-00-3	Chloroethane	ND	0.0025	mg/kg	
67-66-3	Chloroform	ND	0.0010	mg/kg	
74-87-3	Chloromethane	ND	0.0025	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0010	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0010	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0010	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0010	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.00050	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.00050	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.00050	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.00050	mg/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	0.0025	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0025	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.00050	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.00050	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.00050	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.00050	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.00050	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-05-0810		
Lab Sample ID:	JD29693-13	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	84.7
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0010	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0010	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0010	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0010	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	mg/kg	
100-41-4	Ethylbenzene	ND	0.00050	mg/kg	
76-13-1	Freon 113	ND	0.0025	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0025	mg/kg	
591-78-6	2-Hexanone	ND	0.0025	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0010	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0010	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.00050	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0025	mg/kg	
74-95-3	Methylene bromide	ND	0.0025	mg/kg	
75-09-2	Methylene chloride	ND	0.0025	mg/kg	
91-20-3	Naphthalene	ND	0.0025	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0010	mg/kg	
100-42-5	Styrene	ND	0.0010	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0010	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0010	mg/kg	
109-99-9	Tetrahydrofuran	ND	0.0050	mg/kg	
108-88-3	Toluene	ND	0.00050	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0025	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0025	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	mg/kg	
79-01-6	Trichloroethene	ND	0.00050	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0025	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0025	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0010	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0010	mg/kg	
75-01-4	Vinyl chloride	ND	0.0010	mg/kg	
	m,p-Xylene	ND	0.00050	mg/kg	
95-47-6	o-Xylene	ND	0.00050	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-05-0810		
Lab Sample ID:	JD29693-13	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	84.7
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	113%		75-131%
2037-26-5	Toluene-D8	101%		81-121%
460-00-4	4-Bromofluorobenzene	101%		60-141%

(a) Response factor for this compound is below 0.05 in the inital and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-05-0810		
Lab Sample ID:	JD29693-13	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	84.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101723.D	1	08/17/21 04:50	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2							

	Initial Weight	Final Volume
Run #1	31.0 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.0038	mg/kg	
208-96-8	Acenaphthylene	ND	0.0038	mg/kg	
120-12-7	Anthracene	ND	0.0038	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.0038	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.0038	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.0038	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.0038	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.0038	mg/kg	
218-01-9	Chrysene	ND	0.0038	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0038	mg/kg	
206-44-0	Fluoranthene	ND	0.0038	mg/kg	
86-73-7	Fluorene	ND	0.0038	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0038	mg/kg	
91-20-3	Naphthalene	ND	0.0038	mg/kg	
85-01-8	Phenanthrene	ND	0.0038	mg/kg	
129-00-0	Pyrene	ND	0.0038	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		39-90%
321-60-8	2-Fluorobiphenyl	76%		35-84%
1718-51-0	Terphenyl-d14	81%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-05-0810		
Lab Sample ID:	JD29693-13	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	84.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40181.D	1	08/24/21 16:08	TC	08/12/21 09:55	OP34849	G8G1698
Run #2							

	Initial Weight	Final Volume
Run #1	16.0 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00074	mg/kg	
15972-60-8	Alachlor	ND	0.0074	mg/kg	
319-84-6	alpha-BHC	ND	0.00074	mg/kg	
319-85-7	beta-BHC	ND	0.00074	mg/kg	
319-86-8	delta-BHC	ND	0.00074	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00074	mg/kg	
12789-03-6	Chlordane	ND	0.037	mg/kg	
60-57-1	Dieldrin	ND	0.00074	mg/kg	
72-54-8	4,4'-DDD	ND	0.00074	mg/kg	
72-55-9	4,4'-DDE	ND	0.00074	mg/kg	
50-29-3	4,4'-DDT	ND	0.00074	mg/kg	
72-20-8	Endrin	ND	0.00074	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00074	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00074	mg/kg	
959-98-8	Endosulfan-I	ND	0.00074	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00074	mg/kg	
76-44-8	Heptachlor	ND	0.00074	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00074	mg/kg	
72-43-5	Methoxychlor	ND	0.0015	mg/kg	
53494-70-5	Endrin ketone	ND	0.00074	mg/kg	
8001-35-2	Toxaphene	ND	0.018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%		27-138%
877-09-8	Tetrachloro-m-xylene	65%		27-138%
2051-24-3	Decachlorobiphenyl	64%		10-179%
2051-24-3	Decachlorobiphenyl	68%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-05-0810		
Lab Sample ID:	JD29693-13	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3540C	**Percent Solids:**	84.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G109283.D	1	08/14/21 07:09	TC	08/12/21 16:10	OP34850	G5G2755
Run #2							

	Initial Weight	Final Volume
Run #1	12.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016 [a]	ND	0.049	mg/kg	
11104-28-2	Aroclor 1221	ND	0.049	mg/kg	
11141-16-5	Aroclor 1232	ND	0.049	mg/kg	
53469-21-9	Aroclor 1242	ND	0.049	mg/kg	
12672-29-6	Aroclor 1248	ND	0.049	mg/kg	
11097-69-1	Aroclor 1254	ND	0.049	mg/kg	
11096-82-5	Aroclor 1260 [a]	ND	0.049	mg/kg	
11100-14-4	Aroclor 1268	ND	0.049	mg/kg	
37324-23-5	Aroclor 1262	ND	0.049	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	92%		24-152%
877-09-8	Tetrachloro-m-xylene	90%		24-152%
2051-24-3	Decachlorobiphenyl	106%		10-172%
2051-24-3	Decachlorobiphenyl	95%		10-172%

(a) This compound outside control limits biased high in the associated BS.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-05-0810		
Lab Sample ID:	JD29693-13	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3546	**Percent Solids:**	84.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y40002A.D	1	08/12/21 21:57	TL	08/12/21 09:35	OP34853	G8Y1645
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	15.5	7.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	61%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-05-0810		
Lab Sample ID:	JD29693-13	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	84.7
Project:	43 Hempstead Street, New London, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.4	2.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Arsenic	< 2.4	2.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Barium	60.3	24	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Beryllium	0.57	0.24	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Cadmium	< 0.60	0.60	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Chromium	14.5	1.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Copper	4.8	3.0	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Lead	4.1	2.4	mg/kg	1	08/20/21	08/25/21	ND	SW846 6010D [3]	SW846 3050B [4]
Mercury	< 0.032	0.032	mg/kg	1	08/20/21	08/20/21	LM	SW846 7471B [1]	SW846 7471B [5]
Nickel	8.0	4.8	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Selenium	< 2.4	2.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Silver	1.1	0.60	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Thallium	< 1.2	1.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Vanadium	22.2	6.0	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Zinc	33.9	6.0	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA51006
(2) Instrument QC Batch: MA51015
(3) Instrument QC Batch: MA51029
(4) Prep QC Batch: MP28177
(5) Prep QC Batch: MP28186

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TB-01		
Lab Sample ID:	JD29693-14	**Date Sampled:**	08/10/21
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180396.D	1	08/23/21 17:40	PS	n/a	n/a	V1C7860
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.010	mg/kg	
107-13-1	Acrylonitrile	ND	0.010	mg/kg	
71-43-2	Benzene	ND	0.00050	mg/kg	
108-86-1	Bromobenzene	ND	0.0050	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0020	mg/kg	
75-25-2	Bromoform	ND	0.0050	mg/kg	
74-83-9	Bromomethane	ND	0.0050	mg/kg	
78-93-3	2-Butanone (MEK) [a]	ND	0.010	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0020	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0020	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0020	mg/kg	
75-15-0	Carbon disulfide	ND	0.0020	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0020	mg/kg	
108-90-7	Chlorobenzene	ND	0.0020	mg/kg	
75-00-3	Chloroethane	ND	0.0050	mg/kg	
67-66-3	Chloroform	ND	0.0020	mg/kg	
74-87-3	Chloromethane	ND	0.0050	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0020	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0020	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0020	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0020	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0010	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0010	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0010	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0010	mg/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	0.0050	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0050	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0010	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0010	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0010	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0010	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0010	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-01		
Lab Sample ID:	JD29693-14	**Date Sampled:**	08/10/21
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0020	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0020	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0020	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0020	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0020	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0020	mg/kg	
100-41-4	Ethylbenzene	ND	0.0010	mg/kg	
76-13-1	Freon 113	ND	0.0050	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0050	mg/kg	
591-78-6	2-Hexanone	ND	0.0050	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0020	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0020	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0050	mg/kg	
74-95-3	Methylene bromide	ND	0.0050	mg/kg	
75-09-2	Methylene chloride	ND	0.0050	mg/kg	
91-20-3	Naphthalene	ND	0.0050	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0020	mg/kg	
100-42-5	Styrene	ND	0.0020	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0020	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0020	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0020	mg/kg	
109-99-9	Tetrahydrofuran	ND	0.010	mg/kg	
108-88-3	Toluene	ND	0.0010	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0050	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0050	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0020	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0020	mg/kg	
79-01-6	Trichloroethene	ND	0.0010	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0050	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0050	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0020	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0020	mg/kg	
75-01-4	Vinyl chloride	ND	0.0020	mg/kg	
	m,p-Xylene	ND	0.0010	mg/kg	
95-47-6	o-Xylene	ND	0.0010	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-01		
Lab Sample ID:	JD29693-14	**Date Sampled:**	08/10/21
Matrix:	SO - Trip Blank Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	108%		75-131%
2037-26-5	Toluene-D8	101%		81-121%
460-00-4	4-Bromofluorobenzene	99%		60-141%

(a) Response factor for this compound is below 0.05 in the initial and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4-0002		
Lab Sample ID:	JD29693-15	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	89.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180123.D	1	08/13/21 16:40	TDN	n/a	n/a	V1C7851
Run #2							

	Initial Weight
Run #1	7.6 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.0073	mg/kg	
107-13-1	Acrylonitrile	ND	0.0073	mg/kg	
71-43-2	Benzene	ND	0.00037	mg/kg	
108-86-1	Bromobenzene	ND	0.0037	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0015	mg/kg	
75-25-2	Bromoform	ND	0.0037	mg/kg	
74-83-9	Bromomethane	ND	0.0037	mg/kg	
78-93-3	2-Butanone (MEK) [a]	ND	0.0073	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0015	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0015	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0015	mg/kg	
75-15-0	Carbon disulfide	ND	0.0015	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0015	mg/kg	
108-90-7	Chlorobenzene	ND	0.0015	mg/kg	
75-00-3	Chloroethane	ND	0.0037	mg/kg	
67-66-3	Chloroform	ND	0.0015	mg/kg	
74-87-3	Chloromethane	ND	0.0037	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0015	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0015	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0015	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0015	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.00073	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.00073	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.00073	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.00073	mg/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	0.0037	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0037	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.00073	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.00073	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.00073	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.00073	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.00073	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4-0002		
Lab Sample ID:	JD29693-15	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	89.7
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0015	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0015	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0015	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0015	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0015	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0015	mg/kg	
100-41-4	Ethylbenzene	ND	0.00073	mg/kg	
76-13-1	Freon 113	ND	0.0037	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0037	mg/kg	
591-78-6	2-Hexanone	ND	0.0037	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0015	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0015	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.00073	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0037	mg/kg	
74-95-3	Methylene bromide	ND	0.0037	mg/kg	
75-09-2	Methylene chloride	ND	0.0037	mg/kg	
91-20-3	Naphthalene	ND	0.0037	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0015	mg/kg	
100-42-5	Styrene	ND	0.0015	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0015	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0015	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0015	mg/kg	
109-99-9	Tetrahydrofuran	ND	0.0073	mg/kg	
108-88-3	Toluene	ND	0.00073	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0037	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0037	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0015	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0015	mg/kg	
79-01-6	Trichloroethene	ND	0.00073	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0037	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0037	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0015	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0015	mg/kg	
75-01-4	Vinyl chloride	ND	0.0015	mg/kg	
	m,p-Xylene	ND	0.00073	mg/kg	
95-47-6	o-Xylene	ND	0.00073	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4-0002		
Lab Sample ID:	JD29693-15	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	89.7
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	118%		75-131%
2037-26-5	Toluene-D8	110%		81-121%
460-00-4	4-Bromofluorobenzene	115%		60-141%

(a) Response factor for this compound is below 0.05 in the inital and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4-0002		
Lab Sample ID:	JD29693-15	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	89.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101735.D	2	08/17/21 09:14	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2	4M101751.D	20	08/17/21 17:37	KLS	08/11/21 15:28	OP34845A	E4M4742
Run #3	4M101756.D	40	08/18/21 18:09	KLS	08/11/21 15:28	OP34845A	E4M4743

	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2	30.7 g	1.0 ml
Run #3	30.7 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	0.161	0.0073	mg/kg	
208-96-8	Acenaphthylene	0.556 [a]	0.073	mg/kg	
120-12-7	Anthracene	1.12 [a]	0.073	mg/kg	
56-55-3	Benzo(a)anthracene	2.72 [a]	0.073	mg/kg	
50-32-8	Benzo(a)pyrene	2.13 [a]	0.073	mg/kg	
205-99-2	Benzo(b)fluoranthene	3.00 [a]	0.073	mg/kg	
191-24-2	Benzo(g,h,i)perylene	1.19 [a]	0.073	mg/kg	
207-08-9	Benzo(k)fluoranthene	1.00 [a]	0.073	mg/kg	
218-01-9	Chrysene	2.41 [a]	0.073	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.349	0.0073	mg/kg	
206-44-0	Fluoranthene	4.98 [b]	0.15	mg/kg	
86-73-7	Fluorene	0.447 [a]	0.073	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	1.28 [a]	0.073	mg/kg	
91-20-3	Naphthalene	0.172	0.0073	mg/kg	
85-01-8	Phenanthrene	4.41 [b]	0.15	mg/kg	
129-00-0	Pyrene	4.76 [b]	0.15	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
4165-60-0	Nitrobenzene-d5	66%	74%	77%	39-90%
321-60-8	2-Fluorobiphenyl	67%	85% [c]	90% [c]	35-84%
1718-51-0	Terphenyl-d14	62%	84%	92%	42-95%

(a) Result is from Run# 2
(b) Result is from Run# 3
(c) Outside of in house control limits but within RCP criteria limits.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-4-0002		
Lab Sample ID:	JD29693-15	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	89.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40011.D	1	08/14/21 01:31	RK	08/12/21 09:55	OP34849	G8G1686
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00072	mg/kg	
15972-60-8	Alachlor	ND	0.0072	mg/kg	
319-84-6	alpha-BHC	ND	0.00072	mg/kg	
319-85-7	beta-BHC	ND	0.00072	mg/kg	
319-86-8	delta-BHC	ND	0.00072	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00072	mg/kg	
12789-03-6	Chlordane	ND	0.036	mg/kg	
60-57-1	Dieldrin	ND	0.00072	mg/kg	
72-54-8	4,4'-DDD	ND	0.00072	mg/kg	
72-55-9	4,4'-DDE	ND	0.00072	mg/kg	
50-29-3	4,4'-DDT	ND	0.00072	mg/kg	
72-20-8	Endrin	ND	0.00072	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00072	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00072	mg/kg	
959-98-8	Endosulfan-I	ND	0.00072	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00072	mg/kg	
76-44-8	Heptachlor	ND	0.00072	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00072	mg/kg	
72-43-5	Methoxychlor	ND	0.0014	mg/kg	
53494-70-5	Endrin ketone	ND	0.00072	mg/kg	
8001-35-2	Toxaphene	ND	0.018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	112%		27-138%
877-09-8	Tetrachloro-m-xylene	94%		27-138%
2051-24-3	Decachlorobiphenyl	102%		10-179%
2051-24-3	Decachlorobiphenyl	121%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4-0002		
Lab Sample ID:	JD29693-15	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3540C	**Percent Solids:**	89.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G109303.D	1	08/15/21 14:36	TL	08/13/21 17:50	OP34852	G5G2756
Run #2							

	Initial Weight	Final Volume
Run #1	10.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.054	mg/kg	
11104-28-2	Aroclor 1221	ND	0.054	mg/kg	
11141-16-5	Aroclor 1232	ND	0.054	mg/kg	
53469-21-9	Aroclor 1242	ND	0.054	mg/kg	
12672-29-6	Aroclor 1248	ND	0.054	mg/kg	
11097-69-1	Aroclor 1254	ND	0.054	mg/kg	
11096-82-5	Aroclor 1260	ND	0.054	mg/kg	
11100-14-4	Aroclor 1268	ND	0.054	mg/kg	
37324-23-5	Aroclor 1262	ND	0.054	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	66%		24-152%
877-09-8	Tetrachloro-m-xylene	65%		24-152%
2051-24-3	Decachlorobiphenyl	213% [a]		10-172%
2051-24-3	Decachlorobiphenyl	79%		10-172%

(a) Outside control limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4-0002		
Lab Sample ID:	JD29693-15	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3546	**Percent Solids:**	89.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z40008.D	1	08/13/21 01:48	TL	08/12/21 09:35	OP34853	G8Z1725
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	111	7.2	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	54%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4-0002		
Lab Sample ID:	JD29693-15	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	89.7
Project:	43 Hempstead Street, New London, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	68.2	11	mg/kg	5	08/20/21	08/25/21	ND	SW846 6010D [3]	SW846 3050B [5]
Arsenic [a]	12.5	11	mg/kg	5	08/20/21	08/25/21	ND	SW846 6010D [3]	SW846 3050B [5]
Barium	92.8	23	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [5]
Beryllium [a]	< 1.1	1.1	mg/kg	5	08/20/21	08/25/21	ND	SW846 6010D [3]	SW846 3050B [5]
Cadmium [a]	< 2.9	2.9	mg/kg	5	08/20/21	08/25/21	ND	SW846 6010D [3]	SW846 3050B [5]
Chromium	7.1	1.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [5]
Copper [a]	356	14	mg/kg	5	08/20/21	08/25/21	ND	SW846 6010D [3]	SW846 3050B [5]
Lead	7450	23	mg/kg	10	08/20/21	08/28/21	ND	SW846 6010D [4]	SW846 3050B [5]
Mercury	0.38	0.032	mg/kg	1	08/20/21	08/20/21	LM	SW846 7471B [1]	SW846 7471B [6]
Nickel	9.8	4.6	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [5]
Selenium [a]	< 11	11	mg/kg	5	08/20/21	08/25/21	ND	SW846 6010D [3]	SW846 3050B [5]
Silver [a]	< 2.9	2.9	mg/kg	5	08/20/21	08/25/21	ND	SW846 6010D [3]	SW846 3050B [5]
Thallium [a]	< 5.7	5.7	mg/kg	5	08/20/21	08/25/21	ND	SW846 6010D [3]	SW846 3050B [5]
Vanadium	14.2	5.7	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [5]
Zinc	727	5.7	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA51006
(2) Instrument QC Batch: MA51015
(3) Instrument QC Batch: MA51029
(4) Instrument QC Batch: MA51050
(5) Prep QC Batch: MP28177
(6) Prep QC Batch: MP28186

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-4-0204		
Lab Sample ID:	JD29693-16	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	70.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180124.D	1	08/13/21 17:08	TDN	n/a	n/a	V1C7851
Run #2							

	Initial Weight
Run #1	8.5 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	0.0644	0.0084	mg/kg	
107-13-1	Acrylonitrile	ND	0.0084	mg/kg	
71-43-2	Benzene	ND	0.00042	mg/kg	
108-86-1	Bromobenzene	ND	0.0042	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0017	mg/kg	
75-25-2	Bromoform	ND	0.0042	mg/kg	
74-83-9	Bromomethane	ND	0.0042	mg/kg	
78-93-3	2-Butanone (MEK) [a]	0.0133	0.0084	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0017	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0017	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0017	mg/kg	
75-15-0	Carbon disulfide	ND	0.0017	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0017	mg/kg	
108-90-7	Chlorobenzene	ND	0.0017	mg/kg	
75-00-3	Chloroethane	ND	0.0042	mg/kg	
67-66-3	Chloroform	ND	0.0017	mg/kg	
74-87-3	Chloromethane	ND	0.0042	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0017	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0017	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0017	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0017	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.00084	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.00084	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.00084	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.00084	mg/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	0.0042	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0042	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.00084	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.00084	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.00084	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.00084	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.00084	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4-0204		
Lab Sample ID:	JD29693-16	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	70.0
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0017	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0017	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0017	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0017	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0017	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0017	mg/kg	
100-41-4	Ethylbenzene	ND	0.00084	mg/kg	
76-13-1	Freon 113	ND	0.0042	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0042	mg/kg	
591-78-6	2-Hexanone	ND	0.0042	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0017	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0017	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.00084	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0042	mg/kg	
74-95-3	Methylene bromide	ND	0.0042	mg/kg	
75-09-2	Methylene chloride	ND	0.0042	mg/kg	
91-20-3	Naphthalene	ND	0.0042	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0017	mg/kg	
100-42-5	Styrene	ND	0.0017	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0017	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0017	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0017	mg/kg	
109-99-9	Tetrahydrofuran	ND	0.0084	mg/kg	
108-88-3	Toluene	ND	0.00084	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0042	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0042	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0017	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0017	mg/kg	
79-01-6	Trichloroethene	ND	0.00084	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0042	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0042	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0017	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0017	mg/kg	
75-01-4	Vinyl chloride	ND	0.0017	mg/kg	
	m,p-Xylene	ND	0.00084	mg/kg	
95-47-6	o-Xylene	ND	0.00084	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4-0204		
Lab Sample ID:	JD29693-16	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	70.0
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	120%		75-131%
2037-26-5	Toluene-D8	106%		81-121%
460-00-4	4-Bromofluorobenzene	109%		60-141%

(a) Response factor for this compound is below 0.05 in the inital and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-4-0204		
Lab Sample ID:	JD29693-16	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	70.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101778.D	1	08/19/21 07:24	CS	08/17/21 16:30	OP34846A	E4M4744
Run #2							

	Initial Weight	Final Volume
Run #1	31.5 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.0045	mg/kg	
208-96-8	Acenaphthylene	0.00687	0.0045	mg/kg	
120-12-7	Anthracene	0.0126	0.0045	mg/kg	
56-55-3	Benzo(a)anthracene	0.0362	0.0045	mg/kg	
50-32-8	Benzo(a)pyrene	0.0311	0.0045	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.0625	0.0045	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.0287	0.0045	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.0195	0.0045	mg/kg	
218-01-9	Chrysene	0.0379	0.0045	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.00889	0.0045	mg/kg	
206-44-0	Fluoranthene	0.0551	0.0045	mg/kg	
86-73-7	Fluorene	ND	0.0045	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0264	0.0045	mg/kg	
91-20-3	Naphthalene	0.0129	0.0045	mg/kg	
85-01-8	Phenanthrene	0.0450	0.0045	mg/kg	
129-00-0	Pyrene	0.0447	0.0045	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%		39-90%
321-60-8	2-Fluorobiphenyl	58%		35-84%
1718-51-0	Terphenyl-d14	62%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-4-0204		
Lab Sample ID:	JD29693-16	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	70.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G39984.D	1	08/13/21 03:53	CP	08/12/21 18:10	OP34851	G8G1684
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00090	mg/kg	
15972-60-8	Alachlor	ND	0.0090	mg/kg	
319-84-6	alpha-BHC	ND	0.00090	mg/kg	
319-85-7	beta-BHC	ND	0.00090	mg/kg	
319-86-8	delta-BHC	ND	0.00090	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00090	mg/kg	
12789-03-6	Chlordane	ND	0.045	mg/kg	
60-57-1	Dieldrin	ND	0.00090	mg/kg	
72-54-8	4,4'-DDD	ND	0.00090	mg/kg	
72-55-9	4,4'-DDE	ND	0.00090	mg/kg	
50-29-3	4,4'-DDT	ND	0.00090	mg/kg	
72-20-8	Endrin	ND	0.00090	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00090	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00090	mg/kg	
959-98-8	Endosulfan-I	ND	0.00090	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00090	mg/kg	
76-44-8	Heptachlor	ND	0.00090	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00090	mg/kg	
72-43-5	Methoxychlor	ND	0.0018	mg/kg	
53494-70-5	Endrin ketone	ND	0.00090	mg/kg	
8001-35-2	Toxaphene	ND	0.023	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	61%		27-138%
877-09-8	Tetrachloro-m-xylene	67%		27-138%
2051-24-3	Decachlorobiphenyl	59%		10-179%
2051-24-3	Decachlorobiphenyl	73%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-4-0204		
Lab Sample ID:	JD29693-16	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3540C	**Percent Solids:**	70.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G109304.D	1	08/15/21 15:09	TL	08/13/21 17:50	OP34852	G5G2756
Run #2							

	Initial Weight	Final Volume
Run #1	10.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.069	mg/kg	
11104-28-2	Aroclor 1221	ND	0.069	mg/kg	
11141-16-5	Aroclor 1232	ND	0.069	mg/kg	
53469-21-9	Aroclor 1242	ND	0.069	mg/kg	
12672-29-6	Aroclor 1248	ND	0.069	mg/kg	
11097-69-1	Aroclor 1254	ND	0.069	mg/kg	
11096-82-5	Aroclor 1260	ND	0.069	mg/kg	
11100-14-4	Aroclor 1268	ND	0.069	mg/kg	
37324-23-5	Aroclor 1262	ND	0.069	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%		24-152%
877-09-8	Tetrachloro-m-xylene	86%		24-152%
2051-24-3	Decachlorobiphenyl	99%		10-172%
2051-24-3	Decachlorobiphenyl	76%		10-172%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-4-0204		
Lab Sample ID:	JD29693-16	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3546	**Percent Solids:**	70.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z40002A.D	1	08/12/21 21:57	TL	08/12/21 09:35	OP34853	G8Z1725
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	21.4	9.3	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4-0204		
Lab Sample ID:	JD29693-16	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	70.0
Project:	43 Hempstead Street, New London, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	2.7	2.7	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Arsenic	5.8	2.7	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Barium	90.7	27	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Beryllium	0.46	0.27	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Cadmium	2.5	0.68	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Chromium	15.0	1.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Copper	308	3.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Lead	745	2.7	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Mercury	11.0	0.84	mg/kg	20	08/20/21	08/20/21	LM	SW846 7471B [1]	SW846 7471B [5]
Nickel	12.8	5.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Selenium	< 2.7	2.7	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Silver	0.84	0.68	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Thallium	< 1.4	1.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Vanadium	17.2	6.8	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Zinc [a]	1110	14	mg/kg	2	08/20/21	08/25/21	ND	SW846 6010D [3]	SW846 3050B [4]

(1) Instrument QC Batch: MA51006
(2) Instrument QC Batch: MA51015
(3) Instrument QC Batch: MA51029
(4) Prep QC Batch: MP28177
(5) Prep QC Batch: MP28186

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-1R-0002		
Lab Sample ID:	JD29693-17	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	91.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180125.D	1	08/13/21 17:36	TDN	n/a	n/a	V1C7851
Run #2							

	Initial Weight
Run #1	8.9 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.0061	mg/kg	
107-13-1	Acrylonitrile	ND	0.0061	mg/kg	
71-43-2	Benzene	ND	0.00031	mg/kg	
108-86-1	Bromobenzene	ND	0.0031	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0012	mg/kg	
75-25-2	Bromoform	ND	0.0031	mg/kg	
74-83-9	Bromomethane	ND	0.0031	mg/kg	
78-93-3	2-Butanone (MEK) [a]	ND	0.0061	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0012	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0012	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0012	mg/kg	
75-15-0	Carbon disulfide	ND	0.0012	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0012	mg/kg	
108-90-7	Chlorobenzene	ND	0.0012	mg/kg	
75-00-3	Chloroethane	ND	0.0031	mg/kg	
67-66-3	Chloroform	ND	0.0012	mg/kg	
74-87-3	Chloromethane	ND	0.0031	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0012	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0012	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0012	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0012	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.00061	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.00061	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.00061	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.00061	mg/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	0.0031	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0031	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.00061	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.00061	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.00061	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.00061	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.00061	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R-0002		
Lab Sample ID:	JD29693-17	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	91.9
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0012	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0012	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0012	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0012	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0012	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0012	mg/kg	
100-41-4	Ethylbenzene	ND	0.00061	mg/kg	
76-13-1	Freon 113	ND	0.0031	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0031	mg/kg	
591-78-6	2-Hexanone	ND	0.0031	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0012	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0012	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.00061	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0031	mg/kg	
74-95-3	Methylene bromide	ND	0.0031	mg/kg	
75-09-2	Methylene chloride	ND	0.0031	mg/kg	
91-20-3	Naphthalene	ND	0.0031	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0012	mg/kg	
100-42-5	Styrene	ND	0.0012	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0012	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0012	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0012	mg/kg	
109-99-9	Tetrahydrofuran	ND	0.0061	mg/kg	
108-88-3	Toluene	ND	0.00061	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0031	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0031	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0012	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0012	mg/kg	
79-01-6	Trichloroethene	ND	0.00061	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0031	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0031	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0012	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0012	mg/kg	
75-01-4	Vinyl chloride	ND	0.0012	mg/kg	
	m,p-Xylene	ND	0.00061	mg/kg	
95-47-6	o-Xylene	ND	0.00061	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R-0002		
Lab Sample ID:	JD29693-17	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	91.9
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	116%		75-131%
2037-26-5	Toluene-D8	105%		81-121%
460-00-4	4-Bromofluorobenzene	106%		60-141%

(a) Response factor for this compound is below 0.05 in the inital and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R-0002		
Lab Sample ID:	JD29693-17	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	91.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4M101784.D	2	08/19/21 10:02	CS	08/17/21 16:30	OP34846A	E4M4744
Run #2	4M101844.D	20	08/24/21 05:34	CS	08/17/21 16:30	OP34846A	E4M4747
Run #3	4M101838.D	40	08/24/21 03:30	CS	08/17/21 16:30	OP34846A	E4M4747

	Initial Weight	Final Volume
Run #1	31.3 g	1.0 ml
Run #2	31.3 g	1.0 ml
Run #3	31.3 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	0.252	0.0070	mg/kg	
208-96-8	Acenaphthylene	0.629 [b]	0.070	mg/kg	
120-12-7	Anthracene	1.35 [b]	0.070	mg/kg	
56-55-3	Benzo(a)anthracene	3.15 [b]	0.070	mg/kg	
50-32-8	Benzo(a)pyrene	2.42 [b]	0.070	mg/kg	
205-99-2	Benzo(b)fluoranthene	2.98 [c]	0.14	mg/kg	
191-24-2	Benzo(g,h,i)perylene	1.58 [b]	0.070	mg/kg	
207-08-9	Benzo(k)fluoranthene	1.46 [b]	0.070	mg/kg	
218-01-9	Chrysene	2.92 [b]	0.070	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.441 [b]	0.070	mg/kg	
206-44-0	Fluoranthene	5.57 [c]	0.14	mg/kg	
86-73-7	Fluorene	0.347	0.0070	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	1.56 [b]	0.070	mg/kg	
91-20-3	Naphthalene	0.164	0.0070	mg/kg	
85-01-8	Phenanthrene	6.30 [c]	0.14	mg/kg	
129-00-0	Pyrene	5.21 [c]	0.14	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
4165-60-0	Nitrobenzene-d5	54%	59%	57%	39-90%
321-60-8	2-Fluorobiphenyl	53%	63%	60%	35-84%
1718-51-0	Terphenyl-d14	56%	65%	64%	42-95%

(a) Dilution required due to viscosity of the extract matrix.
(b) Result is from Run# 2
(c) Result is from Run# 3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-1R-0002		
Lab Sample ID:	JD29693-17	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	91.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G39985.D	1	08/13/21 04:09	CP	08/12/21 18:10	OP34851	G8G1684
Run #2							

	Initial Weight	Final Volume
Run #1	16.4 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00066	mg/kg	
15972-60-8	Alachlor	ND	0.0066	mg/kg	
319-84-6	alpha-BHC	ND	0.00066	mg/kg	
319-85-7	beta-BHC	ND	0.00066	mg/kg	
319-86-8	delta-BHC	ND	0.00066	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00066	mg/kg	
12789-03-6	Chlordane	ND	0.033	mg/kg	
60-57-1	Dieldrin	ND	0.00066	mg/kg	
72-54-8	4,4'-DDD	ND	0.00066	mg/kg	
72-55-9	4,4'-DDE	ND	0.00066	mg/kg	
50-29-3	4,4'-DDT	ND	0.00066	mg/kg	
72-20-8	Endrin	ND	0.00066	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00066	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00066	mg/kg	
959-98-8	Endosulfan-I	ND	0.00066	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00066	mg/kg	
76-44-8	Heptachlor	ND	0.00066	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00066	mg/kg	
72-43-5	Methoxychlor	ND	0.0013	mg/kg	
53494-70-5	Endrin ketone	ND	0.00066	mg/kg	
8001-35-2	Toxaphene	ND	0.017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%		27-138%
877-09-8	Tetrachloro-m-xylene	69%		27-138%
2051-24-3	Decachlorobiphenyl	65%		10-179%
2051-24-3	Decachlorobiphenyl	226% [a]		10-179%

(a) Outside control limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R-0002		
Lab Sample ID:	JD29693-17	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3540C	**Percent Solids:**	91.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G109309.D	1	08/15/21 17:54	TL	08/13/21 17:50	OP34852	G5G2756
Run #2							

	Initial Weight	Final Volume
Run #1	10.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.053	mg/kg	
11104-28-2	Aroclor 1221	ND	0.053	mg/kg	
11141-16-5	Aroclor 1232	ND	0.053	mg/kg	
53469-21-9	Aroclor 1242	ND	0.053	mg/kg	
12672-29-6	Aroclor 1248	ND	0.053	mg/kg	
11097-69-1	Aroclor 1254	ND	0.053	mg/kg	
11096-82-5	Aroclor 1260	ND	0.053	mg/kg	
11100-14-4	Aroclor 1268	ND	0.053	mg/kg	
37324-23-5	Aroclor 1262	ND	0.053	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		24-152%
877-09-8	Tetrachloro-m-xylene	86%		24-152%
2051-24-3	Decachlorobiphenyl	164% [a]		10-172%
2051-24-3	Decachlorobiphenyl	82%		10-172%

(a) Outside program requirements due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-1R-0002		
Lab Sample ID:	JD29693-17	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3546	**Percent Solids:**	91.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z40009.D	1	08/13/21 02:26	TL	08/12/21 09:35	OP34853	G8Z1725
Run #2							

	Initial Weight	Final Volume
Run #1	16.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	158	6.7	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	66%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R-0002		
Lab Sample ID:	JD29693-17	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	91.9
Project:	43 Hempstead Street, New London, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.2	2.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	6.2	2.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	72.9	22	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.47	0.22	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	0.58	0.54	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	12.5	1.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	42.7	2.7	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	217	2.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.27	0.034	mg/kg	1	08/20/21	08/20/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	9.5	4.3	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.54	0.54	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	23.5	5.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	165	5.4	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA51006
(2) Instrument QC Batch: MA51015
(3) Prep QC Batch: MP28177
(4) Prep QC Batch: MP28186

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-1R-0406		
Lab Sample ID:	JD29693-18	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	86.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180202.D	1	08/17/21 13:07	PS	n/a	n/a	V1C7854
Run #2							

	Initial Weight
Run #1	6.3 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.0092	mg/kg	
107-13-1	Acrylonitrile	ND	0.0092	mg/kg	
71-43-2	Benzene	ND	0.00046	mg/kg	
108-86-1	Bromobenzene	ND	0.0046	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0018	mg/kg	
75-25-2	Bromoform	ND	0.0046	mg/kg	
74-83-9	Bromomethane	ND	0.0046	mg/kg	
78-93-3	2-Butanone (MEK) [a]	ND	0.0092	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0018	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0018	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0018	mg/kg	
75-15-0	Carbon disulfide	ND	0.0018	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0018	mg/kg	
108-90-7	Chlorobenzene	ND	0.0018	mg/kg	
75-00-3	Chloroethane	ND	0.0046	mg/kg	
67-66-3	Chloroform	ND	0.0018	mg/kg	
74-87-3	Chloromethane	ND	0.0046	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0018	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0018	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0018	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0018	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.00092	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.00092	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.00092	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.00092	mg/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	0.0046	mg/kg	
75-71-8	Dichlorodifluoromethane [b]	ND	0.0046	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.00092	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.00092	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.00092	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.00092	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.00092	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R-0406		
Lab Sample ID:	JD29693-18	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	86.5
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0018	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0018	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0018	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0018	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0018	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0018	mg/kg	
100-41-4	Ethylbenzene	ND	0.00092	mg/kg	
76-13-1	Freon 113	ND	0.0046	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0046	mg/kg	
591-78-6	2-Hexanone	ND	0.0046	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0018	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0018	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.00092	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0046	mg/kg	
74-95-3	Methylene bromide	ND	0.0046	mg/kg	
75-09-2	Methylene chloride	ND	0.0046	mg/kg	
91-20-3	Naphthalene	ND	0.0046	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0018	mg/kg	
100-42-5	Styrene	ND	0.0018	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0018	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0018	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0018	mg/kg	
109-99-9	Tetrahydrofuran	ND	0.0092	mg/kg	
108-88-3	Toluene	ND	0.00092	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0046	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0046	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0018	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0018	mg/kg	
79-01-6	Trichloroethene	ND	0.00092	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0046	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0046	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0018	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0018	mg/kg	
75-01-4	Vinyl chloride	ND	0.0018	mg/kg	
	m,p-Xylene	ND	0.00092	mg/kg	
95-47-6	o-Xylene	ND	0.00092	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R-0406		
Lab Sample ID:	JD29693-18	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	86.5
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	114%		75-131%
2037-26-5	Toluene-D8	113%		81-121%
460-00-4	4-Bromofluorobenzene	122%		60-141%

(a) Response factor for this compound is below 0.05 in the inital and continuing calibrations.
(b) Associated CCV outside of control limits low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R-0406		
Lab Sample ID:	JD29693-18	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	86.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101780.D	1	08/19/21 08:09	CS	08/17/21 16:30	OP34846A	E4M4744
Run #2	4M101842.D	10	08/24/21 04:53	CS	08/17/21 16:30	OP34846A	E4M4747

	Initial Weight	Final Volume
Run #1	31.8 g	1.0 ml
Run #2	31.8 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	0.0179	0.0036	mg/kg	
208-96-8	Acenaphthylene	0.0660	0.0036	mg/kg	
120-12-7	Anthracene	0.0904	0.0036	mg/kg	
56-55-3	Benzo(a)anthracene	0.338 [a]	0.036	mg/kg	
50-32-8	Benzo(a)pyrene	0.249 [a]	0.036	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.472 [a]	0.036	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.180	0.0036	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.135	0.0036	mg/kg	
218-01-9	Chrysene	0.359 [a]	0.036	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0570	0.0036	mg/kg	
206-44-0	Fluoranthene	0.662 [a]	0.036	mg/kg	
86-73-7	Fluorene	0.0322	0.0036	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.165 [a]	0.036	mg/kg	
91-20-3	Naphthalene	0.0811	0.0036	mg/kg	
85-01-8	Phenanthrene	0.532 [a]	0.036	mg/kg	
129-00-0	Pyrene	0.671 [a]	0.036	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	47%	53%	39-90%
321-60-8	2-Fluorobiphenyl	53%	63%	35-84%
1718-51-0	Terphenyl-d14	52%	63%	42-95%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R-0406		
Lab Sample ID:	JD29693-18	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	86.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G39986.D	1	08/13/21 04:26	CP	08/12/21 18:10	OP34851	G8G1684
Run #2 [a]	8G40023.D	5	08/16/21 14:02	TC	08/12/21 18:10	OP34851	G8G1688

	Initial Weight	Final Volume
Run #1	16.1 g	10.0 ml
Run #2	16.1 g	10.0 ml

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00072	mg/kg	
15972-60-8	Alachlor	ND	0.0072	mg/kg	
319-84-6	alpha-BHC	ND	0.00072	mg/kg	
319-85-7	beta-BHC	ND	0.00072	mg/kg	
319-86-8	delta-BHC	ND	0.00072	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00072	mg/kg	
12789-03-6	Chlordane	ND	0.036	mg/kg	
60-57-1	Dieldrin	ND	0.00072	mg/kg	
72-54-8	4,4'-DDD [b]	0.0089	0.00072	mg/kg	
72-55-9	4,4'-DDE [c]	0.0015	0.00072	mg/kg	
50-29-3	4,4'-DDT	0.0081	0.00072	mg/kg	
72-20-8	Endrin	ND	0.00072	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00072	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00072	mg/kg	
959-98-8	Endosulfan-I	ND	0.00072	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00072	mg/kg	
76-44-8	Heptachlor	ND	0.00072	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00072	mg/kg	
72-43-5	Methoxychlor	ND	0.0014	mg/kg	
53494-70-5	Endrin ketone	ND	0.00072	mg/kg	
8001-35-2	Toxaphene	ND	0.018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	55%	61%	27-138%
877-09-8	Tetrachloro-m-xylene	63%	59%	27-138%
2051-24-3	Decachlorobiphenyl	61%	74%	10-179%
2051-24-3	Decachlorobiphenyl	119%	124%	10-179%

(a) Confirmation run.
(b) More than 40 % RPD for detected concentrations between the two GC columns.
(c) Reported from the 1st signal. The %D of the CCV on the 2nd signal exceeds the method criteria of 20%, so it

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R-0406		
Lab Sample ID:	JD29693-18	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	86.5
Project:	43 Hempstead Street, New London, CT		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q

being used for confirmation only. More than 40% RPD for detected concentrations between the two GC columns.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-1R-0406		
Lab Sample ID:	JD29693-18	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3540C	**Percent Solids:**	86.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G109310.D	1	08/15/21 18:27	TL	08/13/21 17:50	OP34852	G5G2756
Run #2							

	Initial Weight	Final Volume
Run #1	10.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.056	mg/kg	
11104-28-2	Aroclor 1221	ND	0.056	mg/kg	
11141-16-5	Aroclor 1232	ND	0.056	mg/kg	
53469-21-9	Aroclor 1242	ND	0.056	mg/kg	
12672-29-6	Aroclor 1248	ND	0.056	mg/kg	
11097-69-1	Aroclor 1254	ND	0.056	mg/kg	
11096-82-5	Aroclor 1260	ND	0.056	mg/kg	
11100-14-4	Aroclor 1268	ND	0.056	mg/kg	
37324-23-5	Aroclor 1262	ND	0.056	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		24-152%
877-09-8	Tetrachloro-m-xylene	91%		24-152%
2051-24-3	Decachlorobiphenyl	103%		10-172%
2051-24-3	Decachlorobiphenyl	81%		10-172%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-1R-0406		
Lab Sample ID:	JD29693-18	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3546	**Percent Solids:**	86.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z40003.D	1	08/12/21 22:36	TL	08/12/21 09:35	OP34853	G8Z1725
Run #2							

	Initial Weight	Final Volume
Run #1	16.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	64.6	7.0	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	56%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R-0406		
Lab Sample ID:	JD29693-18	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	86.5
Project:	43 Hempstead Street, New London, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.2	2.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	5.7	2.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	147	22	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.48	0.22	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.56	0.56	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	17.8	1.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	34.1	2.8	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	347	2.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.54	0.036	mg/kg	1	08/20/21	08/20/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	12.9	4.5	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.2	2.2	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	0.58	0.56	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	18.1	5.6	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	202	5.6	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA51006
(2) Instrument QC Batch: MA51015
(3) Prep QC Batch: MP28177
(4) Prep QC Batch: MP28187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-2-0002		
Lab Sample ID:	JD29693-19	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	84.8
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180171.D	1	08/16/21 13:12	PS	n/a	n/a	V1C7853
Run #2							

	Initial Weight
Run #1	8.3 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.0071	mg/kg	
107-13-1	Acrylonitrile	ND	0.0071	mg/kg	
71-43-2	Benzene	ND	0.00036	mg/kg	
108-86-1	Bromobenzene	ND	0.0036	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0014	mg/kg	
75-25-2	Bromoform	ND	0.0036	mg/kg	
74-83-9	Bromomethane	ND	0.0036	mg/kg	
78-93-3	2-Butanone (MEK) [a]	ND	0.0071	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0014	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0014	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0014	mg/kg	
75-15-0	Carbon disulfide	ND	0.0014	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0014	mg/kg	
108-90-7	Chlorobenzene	ND	0.0014	mg/kg	
75-00-3	Chloroethane	ND	0.0036	mg/kg	
67-66-3	Chloroform	ND	0.0014	mg/kg	
74-87-3	Chloromethane	ND	0.0036	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0014	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0014	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0014	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0014	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.00071	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.00071	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.00071	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.00071	mg/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	0.0036	mg/kg	
75-71-8	Dichlorodifluoromethane [b]	ND	0.0036	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.00071	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.00071	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.00071	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.00071	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.00071	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-2-0002		
Lab Sample ID:	JD29693-19	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	84.8
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0014	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0014	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0014	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0014	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0014	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0014	mg/kg	
100-41-4	Ethylbenzene	ND	0.00071	mg/kg	
76-13-1	Freon 113	ND	0.0036	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0036	mg/kg	
591-78-6	2-Hexanone	ND	0.0036	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0014	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0014	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.00071	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0036	mg/kg	
74-95-3	Methylene bromide	ND	0.0036	mg/kg	
75-09-2	Methylene chloride	ND	0.0036	mg/kg	
91-20-3	Naphthalene	ND	0.0036	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0014	mg/kg	
100-42-5	Styrene	ND	0.0014	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0014	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0014	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0014	mg/kg	
109-99-9	Tetrahydrofuran	ND	0.0071	mg/kg	
108-88-3	Toluene	ND	0.00071	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0036	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0036	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0014	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0014	mg/kg	
79-01-6	Trichloroethene	ND	0.00071	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0036	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0036	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0014	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0014	mg/kg	
75-01-4	Vinyl chloride	ND	0.0014	mg/kg	
	m,p-Xylene	ND	0.00071	mg/kg	
95-47-6	o-Xylene	ND	0.00071	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-2-0002		
Lab Sample ID:	JD29693-19	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	84.8
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	114%		75-131%
2037-26-5	Toluene-D8	107%		81-121%
460-00-4	4-Bromofluorobenzene	109%		60-141%

(a) Response factor for this compound is below 0.05 in the inital and continuing calibrations.
(b) Associated CCV outside of control limits low. This compound is outside the RCP limits in the associated BS biased low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-2-0002		
Lab Sample ID:	JD29693-19	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	84.8
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101783A.D	1	08/19/21 09:40	CS	08/17/21 16:30	OP34846A	E4M4744
Run #2	4M101843.D	5	08/24/21 05:14	CS	08/17/21 16:30	OP34846A	E4M4747

	Initial Weight	Final Volume
Run #1	31.4 g	1.0 ml
Run #2	31.4 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	0.00881	0.0038	mg/kg	
208-96-8	Acenaphthylene	0.0533	0.0038	mg/kg	
120-12-7	Anthracene	0.0703	0.0038	mg/kg	
56-55-3	Benzo(a)anthracene	0.153	0.0038	mg/kg	
50-32-8	Benzo(a)pyrene	0.100	0.0038	mg/kg	
205-99-2	Benzo(b)fluoranthene	0.194 [a]	0.019	mg/kg	
191-24-2	Benzo(g,h,i)perylene	0.0677	0.0038	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.0636	0.0038	mg/kg	
218-01-9	Chrysene	0.162	0.0038	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.0242	0.0038	mg/kg	
206-44-0	Fluoranthene	0.322 [a]	0.019	mg/kg	
86-73-7	Fluorene	0.0186	0.0038	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0744	0.0038	mg/kg	
91-20-3	Naphthalene	0.0989	0.0038	mg/kg	
85-01-8	Phenanthrene	0.320 [a]	0.019	mg/kg	
129-00-0	Pyrene	0.275 [a]	0.019	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	55%	57%	39-90%
321-60-8	2-Fluorobiphenyl	53%	58%	35-84%
1718-51-0	Terphenyl-d14	50%	53%	42-95%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-2-0002		
Lab Sample ID:	JD29693-19	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	84.8
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G39981.D	1	08/13/21 03:04	CP	08/12/21 18:10	OP34851	G8G1684
Run #2							

	Initial Weight	Final Volume
Run #1	16.0 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00074	mg/kg	
15972-60-8	Alachlor	ND	0.0074	mg/kg	
319-84-6	alpha-BHC	ND	0.00074	mg/kg	
319-85-7	beta-BHC	ND	0.00074	mg/kg	
319-86-8	delta-BHC	ND	0.00074	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00074	mg/kg	
12789-03-6	Chlordane	ND	0.037	mg/kg	
60-57-1	Dieldrin	ND	0.00074	mg/kg	
72-54-8	4,4'-DDD [a]	0.0039	0.00074	mg/kg	
72-55-9	4,4'-DDE	ND	0.00074	mg/kg	
50-29-3	4,4'-DDT	0.0052	0.00074	mg/kg	
72-20-8	Endrin	ND	0.00074	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00074	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00074	mg/kg	
959-98-8	Endosulfan-I	ND	0.00074	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00074	mg/kg	
76-44-8	Heptachlor	ND	0.00074	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00074	mg/kg	
72-43-5	Methoxychlor	ND	0.0015	mg/kg	
53494-70-5	Endrin ketone	ND	0.00074	mg/kg	
8001-35-2	Toxaphene	ND	0.018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	73%		27-138%
877-09-8	Tetrachloro-m-xylene	80%		27-138%
2051-24-3	Decachlorobiphenyl	84%		10-179%
2051-24-3	Decachlorobiphenyl	131%		10-179%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-2-0002		
Lab Sample ID:	JD29693-19	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3540C	**Percent Solids:**	84.8
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G109300.D	1	08/15/21 12:57	TL	08/13/21 17:50	OP34852	G5G2756
Run #2							

	Initial Weight	Final Volume
Run #1	10.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.058	mg/kg	
11104-28-2	Aroclor 1221	ND	0.058	mg/kg	
11141-16-5	Aroclor 1232	ND	0.058	mg/kg	
53469-21-9	Aroclor 1242	ND	0.058	mg/kg	
12672-29-6	Aroclor 1248	ND	0.058	mg/kg	
11097-69-1	Aroclor 1254	ND	0.058	mg/kg	
11096-82-5	Aroclor 1260	ND	0.058	mg/kg	
11100-14-4	Aroclor 1268	ND	0.058	mg/kg	
37324-23-5	Aroclor 1262	ND	0.058	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		24-152%
877-09-8	Tetrachloro-m-xylene	95%		24-152%
2051-24-3	Decachlorobiphenyl	100%		10-172%
2051-24-3	Decachlorobiphenyl	94%		10-172%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-2-0002		
Lab Sample ID:	JD29693-19	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3546	**Percent Solids:**	84.8
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z40005.D	1	08/12/21 23:53	TL	08/12/21 09:35	OP34853	G8Z1725
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	204	7.8	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-2-0002		
Lab Sample ID:	JD29693-19	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	84.8
Project:	43 Hempstead Street, New London, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	19.7	2.3	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Arsenic	15.4	2.3	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Barium	129	23	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Beryllium	0.61	0.23	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Cadmium	1.2	0.57	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Chromium	9.8	1.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Copper	357	2.9	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Lead	1140	4.6	mg/kg	2	08/20/21	08/25/21	ND	SW846 6010D [3]	SW846 3050B [4]
Mercury	0.84	0.063	mg/kg	2	08/20/21	08/20/21	LM	SW846 7471B [1]	SW846 7471B [5]
Nickel	12.6	4.6	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Selenium	< 2.3	2.3	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Silver	0.98	0.57	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Thallium	< 1.1	1.1	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Vanadium	20.3	5.7	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]
Zinc	552	5.7	mg/kg	1	08/20/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA51006
(2) Instrument QC Batch: MA51015
(3) Instrument QC Batch: MA51029
(4) Prep QC Batch: MP28177
(5) Prep QC Batch: MP28186

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-2-0507		
Lab Sample ID:	JD29693-20	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	81.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180127.D	1	08/13/21 18:32	TDN	n/a	n/a	V1C7851
Run #2							

	Initial Weight
Run #1	9.8 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	0.0620	0.0062	mg/kg	
107-13-1	Acrylonitrile	ND	0.0062	mg/kg	
71-43-2	Benzene	ND	0.00031	mg/kg	
108-86-1	Bromobenzene	ND	0.0031	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0012	mg/kg	
75-25-2	Bromoform	ND	0.0031	mg/kg	
74-83-9	Bromomethane	ND	0.0031	mg/kg	
78-93-3	2-Butanone (MEK) [a]	0.0136	0.0062	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0012	mg/kg	
135-98-8	sec-Butylbenzene	0.0086	0.0012	mg/kg	
98-06-6	tert-Butylbenzene	0.0022	0.0012	mg/kg	
75-15-0	Carbon disulfide	ND	0.0012	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0012	mg/kg	
108-90-7	Chlorobenzene	ND	0.0012	mg/kg	
75-00-3	Chloroethane	ND	0.0031	mg/kg	
67-66-3	Chloroform	ND	0.0012	mg/kg	
74-87-3	Chloromethane	ND	0.0031	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0012	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0012	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0012	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0012	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.00062	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.00062	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.00062	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.00062	mg/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	0.0031	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0031	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.00062	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.00062	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.00062	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.00062	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.00062	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-2-0507		
Lab Sample ID:	JD29693-20	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	81.9
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0012	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0012	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0012	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0012	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0012	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0012	mg/kg	
100-41-4	Ethylbenzene	ND	0.00062	mg/kg	
76-13-1	Freon 113	ND	0.0031	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0031	mg/kg	
591-78-6	2-Hexanone	ND	0.0031	mg/kg	
98-82-8	Isopropylbenzene	0.0018	0.0012	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0012	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.00062	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0031	mg/kg	
74-95-3	Methylene bromide	ND	0.0031	mg/kg	
75-09-2	Methylene chloride	ND	0.0031	mg/kg	
91-20-3	Naphthalene	ND	0.0031	mg/kg	
103-65-1	n-Propylbenzene	0.0014	0.0012	mg/kg	
100-42-5	Styrene	ND	0.0012	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0012	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0012	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0012	mg/kg	
109-99-9	Tetrahydrofuran	ND	0.0062	mg/kg	
108-88-3	Toluene	ND	0.00062	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0031	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0031	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0012	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0012	mg/kg	
79-01-6	Trichloroethene	ND	0.00062	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0031	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0031	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0012	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0012	mg/kg	
75-01-4	Vinyl chloride	ND	0.0012	mg/kg	
	m,p-Xylene	ND	0.00062	mg/kg	
95-47-6	o-Xylene	ND	0.00062	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-2-0507		
Lab Sample ID:	JD29693-20	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	81.9
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	119%		75-131%
2037-26-5	Toluene-D8	105%		81-121%
460-00-4	4-Bromofluorobenzene	100%		60-141%

(a) Response factor for this compound is below 0.05 in the inital and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-2-0507		
Lab Sample ID:	JD29693-20	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	81.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101777.D	1	08/19/21 07:02	CS	08/17/21 16:30	OP34846A	E4M4744
Run #2							

	Initial Weight	Final Volume
Run #1	31.5 g	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.0039	mg/kg	
208-96-8	Acenaphthylene	ND	0.0039	mg/kg	
120-12-7	Anthracene	ND	0.0039	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.0039	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.0039	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.0039	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.0039	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.0039	mg/kg	
218-01-9	Chrysene	ND	0.0039	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0039	mg/kg	
206-44-0	Fluoranthene	ND	0.0039	mg/kg	
86-73-7	Fluorene	ND	0.0039	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0039	mg/kg	
91-20-3	Naphthalene	0.00681	0.0039	mg/kg	
85-01-8	Phenanthrene	ND	0.0039	mg/kg	
129-00-0	Pyrene	ND	0.0039	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%		39-90%
321-60-8	2-Fluorobiphenyl	61%		35-84%
1718-51-0	Terphenyl-d14	65%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-2-0507		
Lab Sample ID:	JD29693-20	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	81.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G39987.D	1	08/13/21 04:42	CP	08/12/21 18:10	OP34851	G8G1684
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00080	mg/kg	
15972-60-8	Alachlor	ND	0.0080	mg/kg	
319-84-6	alpha-BHC	ND	0.00080	mg/kg	
319-85-7	beta-BHC	ND	0.00080	mg/kg	
319-86-8	delta-BHC	ND	0.00080	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00080	mg/kg	
12789-03-6	Chlordane	ND	0.040	mg/kg	
60-57-1	Dieldrin	ND	0.00080	mg/kg	
72-54-8	4,4'-DDD	ND	0.00080	mg/kg	
72-55-9	4,4'-DDE	ND	0.00080	mg/kg	
50-29-3	4,4'-DDT	ND	0.00080	mg/kg	
72-20-8	Endrin	ND	0.00080	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00080	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00080	mg/kg	
959-98-8	Endosulfan-I	ND	0.00080	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00080	mg/kg	
76-44-8	Heptachlor	ND	0.00080	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00080	mg/kg	
72-43-5	Methoxychlor	ND	0.0016	mg/kg	
53494-70-5	Endrin ketone	ND	0.00080	mg/kg	
8001-35-2	Toxaphene	ND	0.020	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	73%		27-138%
877-09-8	Tetrachloro-m-xylene	76%		27-138%
2051-24-3	Decachlorobiphenyl	69%		10-179%
2051-24-3	Decachlorobiphenyl	86%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-2-0507		
Lab Sample ID:	JD29693-20	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3540C	**Percent Solids:**	81.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G109311.D	1	08/15/21 19:00	TL	08/13/21 17:50	OP34852	G5G2756
Run #2							

	Initial Weight	Final Volume
Run #1	10.7 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.057	mg/kg	
11104-28-2	Aroclor 1221	ND	0.057	mg/kg	
11141-16-5	Aroclor 1232	ND	0.057	mg/kg	
53469-21-9	Aroclor 1242	ND	0.057	mg/kg	
12672-29-6	Aroclor 1248	ND	0.057	mg/kg	
11097-69-1	Aroclor 1254	ND	0.057	mg/kg	
11096-82-5	Aroclor 1260	ND	0.057	mg/kg	
11100-14-4	Aroclor 1268	ND	0.057	mg/kg	
37324-23-5	Aroclor 1262	ND	0.057	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		24-152%
877-09-8	Tetrachloro-m-xylene	78%		24-152%
2051-24-3	Decachlorobiphenyl	98%		10-172%
2051-24-3	Decachlorobiphenyl	79%		10-172%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-2-0507		
Lab Sample ID:	JD29693-20	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3546	**Percent Solids:**	81.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z40004.D	1	08/12/21 23:14	TL	08/12/21 09:35	OP34853	G8Z1725
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	18.1	8.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-2-0507		
Lab Sample ID:	JD29693-20	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	81.9
Project:	43 Hempstead Street, New London, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.5	2.5	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	2.5	2.5	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	75.7	25	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.67	0.25	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.62	0.62	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	11.8	1.2	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	4.4	3.1	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	15.8	2.5	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	< 0.035	0.035	mg/kg	1	08/20/21	08/20/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	7.5	4.9	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.5	2.5	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	0.69	0.62	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	28.5	6.2	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	36.3	6.2	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA51006
(2) Instrument QC Batch: MA51020
(3) Prep QC Batch: MP28178
(4) Prep QC Batch: MP28187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-3-0002		
Lab Sample ID:	JD29693-21	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	91.3
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180128.D	1	08/13/21 18:59	TDN	n/a	n/a	V1C7851
Run #2							

	Initial Weight
Run #1	9.0 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.0061	mg/kg	
107-13-1	Acrylonitrile	ND	0.0061	mg/kg	
71-43-2	Benzene	ND	0.00030	mg/kg	
108-86-1	Bromobenzene	ND	0.0030	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0012	mg/kg	
75-25-2	Bromoform	ND	0.0030	mg/kg	
74-83-9	Bromomethane	ND	0.0030	mg/kg	
78-93-3	2-Butanone (MEK) [a]	ND	0.0061	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0012	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0012	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0012	mg/kg	
75-15-0	Carbon disulfide	ND	0.0012	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0012	mg/kg	
108-90-7	Chlorobenzene	ND	0.0012	mg/kg	
75-00-3	Chloroethane	ND	0.0030	mg/kg	
67-66-3	Chloroform	ND	0.0012	mg/kg	
74-87-3	Chloromethane	ND	0.0030	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0012	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0012	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0012	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0012	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.00061	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.00061	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.00061	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.00061	mg/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	0.0030	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0030	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.00061	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.00061	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.00061	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.00061	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.00061	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0002		
Lab Sample ID:	JD29693-21	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	91.3
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0012	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0012	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0012	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0012	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0012	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0012	mg/kg	
100-41-4	Ethylbenzene	ND	0.00061	mg/kg	
76-13-1	Freon 113	ND	0.0030	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0030	mg/kg	
591-78-6	2-Hexanone	ND	0.0030	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0012	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0012	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.00061	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0030	mg/kg	
74-95-3	Methylene bromide	ND	0.0030	mg/kg	
75-09-2	Methylene chloride	ND	0.0030	mg/kg	
91-20-3	Naphthalene	ND	0.0030	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0012	mg/kg	
100-42-5	Styrene	ND	0.0012	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0012	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0012	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0012	mg/kg	
109-99-9	Tetrahydrofuran	ND	0.0061	mg/kg	
108-88-3	Toluene	ND	0.00061	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0030	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0030	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0012	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0012	mg/kg	
79-01-6	Trichloroethene	ND	0.00061	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0030	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0030	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0012	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0012	mg/kg	
75-01-4	Vinyl chloride	ND	0.0012	mg/kg	
	m,p-Xylene	ND	0.00061	mg/kg	
95-47-6	o-Xylene	ND	0.00061	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0002		
Lab Sample ID:	JD29693-21	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	91.3
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	114%		75-131%
2037-26-5	Toluene-D8	105%		81-121%
460-00-4	4-Bromofluorobenzene	105%		60-141%

(a) Response factor for this compound is below 0.05 in the inital and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0002		
Lab Sample ID:	JD29693-21	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	91.3
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	4M101785.D	2	08/19/21 10:24	CS	08/17/21 16:30	OP34846A	E4M4744
Run #2	4M101845.D	20	08/24/21 05:55	CS	08/17/21 16:30	OP34846A	E4M4747
Run #3	4M101839.D	100	08/24/21 03:51	CS	08/17/21 16:30	OP34846A	E4M4747

	Initial Weight	Final Volume
Run #1	31.8 g	1.0 ml
Run #2	31.8 g	1.0 ml
Run #3	31.8 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	0.130	0.0069	mg/kg	
208-96-8	Acenaphthylene	0.568 [b]	0.069	mg/kg	
120-12-7	Anthracene	0.956 [b]	0.069	mg/kg	
56-55-3	Benzo(a)anthracene	4.04 [c]	0.34	mg/kg	
50-32-8	Benzo(a)pyrene	3.38 [b]	0.069	mg/kg	
205-99-2	Benzo(b)fluoranthene	5.11 [c]	0.34	mg/kg	
191-24-2	Benzo(g,h,i)perylene	2.09 [b]	0.069	mg/kg	
207-08-9	Benzo(k)fluoranthene	1.64 [b]	0.069	mg/kg	
218-01-9	Chrysene	4.21 [c]	0.34	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.663 [b]	0.069	mg/kg	
206-44-0	Fluoranthene	8.67 [c]	0.34	mg/kg	
86-73-7	Fluorene	0.279	0.0069	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	2.37 [b]	0.069	mg/kg	
91-20-3	Naphthalene	0.191	0.0069	mg/kg	
85-01-8	Phenanthrene	5.05 [c]	0.34	mg/kg	
129-00-0	Pyrene	7.78 [c]	0.34	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
4165-60-0	Nitrobenzene-d5	68%	74%	69%	39-90%
321-60-8	2-Fluorobiphenyl	67%	79%	77%	35-84%
1718-51-0	Terphenyl-d14	67%	78%	79%	42-95%

(a) Dilution required due to viscosity of the extract matrix.
(b) Result is from Run# 2
(c) Result is from Run# 3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0002		
Lab Sample ID:	JD29693-21	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	91.3
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G39988.D	1	08/13/21 04:58	CP	08/12/21 18:10	OP34851	G8G1684
Run #2							

	Initial Weight	Final Volume
Run #1	16.0 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00068	mg/kg	
15972-60-8	Alachlor	ND	0.0068	mg/kg	
319-84-6	alpha-BHC	ND	0.00068	mg/kg	
319-85-7	beta-BHC	ND	0.00068	mg/kg	
319-86-8	delta-BHC	ND	0.00068	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00068	mg/kg	
12789-03-6	Chlordane	ND	0.034	mg/kg	
60-57-1	Dieldrin	ND	0.00068	mg/kg	
72-54-8	4,4'-DDD	ND	0.00068	mg/kg	
72-55-9	4,4'-DDE	ND	0.00068	mg/kg	
50-29-3	4,4'-DDT	ND	0.00068	mg/kg	
72-20-8	Endrin	ND	0.00068	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00068	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00068	mg/kg	
959-98-8	Endosulfan-I	ND	0.00068	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00068	mg/kg	
76-44-8	Heptachlor	ND	0.00068	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00068	mg/kg	
72-43-5	Methoxychlor	ND	0.0014	mg/kg	
53494-70-5	Endrin ketone	ND	0.00068	mg/kg	
8001-35-2	Toxaphene	ND	0.017	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	66%		27-138%
877-09-8	Tetrachloro-m-xylene	69%		27-138%
2051-24-3	Decachlorobiphenyl	56%		10-179%
2051-24-3	Decachlorobiphenyl	194% [a]		10-179%

(a) Outside control limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0002		
Lab Sample ID:	JD29693-21	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3540C	**Percent Solids:**	91.3
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G109312.D	1	08/15/21 19:33	TL	08/13/21 17:50	OP34852	G5G2756
Run #2							

	Initial Weight	Final Volume
Run #1	10.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.055	mg/kg	
11104-28-2	Aroclor 1221	ND	0.055	mg/kg	
11141-16-5	Aroclor 1232	ND	0.055	mg/kg	
53469-21-9	Aroclor 1242	ND	0.055	mg/kg	
12672-29-6	Aroclor 1248	ND	0.055	mg/kg	
11097-69-1	Aroclor 1254	ND	0.055	mg/kg	
11096-82-5	Aroclor 1260	ND	0.055	mg/kg	
11100-14-4	Aroclor 1268	ND	0.055	mg/kg	
37324-23-5	Aroclor 1262	ND	0.055	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	88%		24-152%
877-09-8	Tetrachloro-m-xylene	87%		24-152%
2051-24-3	Decachlorobiphenyl	114%		10-172%
2051-24-3	Decachlorobiphenyl	76%		10-172%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0002		
Lab Sample ID:	JD29693-21	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3546	**Percent Solids:**	91.3
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y40021.D	1	08/14/21 01:19	RK	08/12/21 18:15	OP34854	G8Y1646
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	640	7.1	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	55%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0002		
Lab Sample ID:	JD29693-21	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	91.3
Project:	43 Hempstead Street, New London, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.1	2.1	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	4.5	2.1	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	57.2	21	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.34	0.21	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.53	0.53	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	11.5	1.1	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	32.7	2.7	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	168	2.1	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.34	0.033	mg/kg	1	08/20/21	08/20/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	11.4	4.3	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.1	2.1	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.53	0.53	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	20.1	5.3	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	105	5.3	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA51006
(2) Instrument QC Batch: MA51020
(3) Prep QC Batch: MP28178
(4) Prep QC Batch: MP28187

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-3-0305		
Lab Sample ID:	JD29693-22	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	87.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C180129.D	1	08/13/21 19:27	TDN	n/a	n/a	V1C7851
Run #2							

	Initial Weight
Run #1	10.5 g
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.0054	mg/kg	
107-13-1	Acrylonitrile	ND	0.0054	mg/kg	
71-43-2	Benzene	ND	0.00027	mg/kg	
108-86-1	Bromobenzene	ND	0.0027	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0011	mg/kg	
75-25-2	Bromoform	ND	0.0027	mg/kg	
74-83-9	Bromomethane	ND	0.0027	mg/kg	
78-93-3	2-Butanone (MEK) [a]	ND	0.0054	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0011	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0011	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0011	mg/kg	
75-15-0	Carbon disulfide	ND	0.0011	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0011	mg/kg	
108-90-7	Chlorobenzene	ND	0.0011	mg/kg	
75-00-3	Chloroethane	ND	0.0027	mg/kg	
67-66-3	Chloroform	ND	0.0011	mg/kg	
74-87-3	Chloromethane	ND	0.0027	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0011	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0011	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0011	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0011	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.00054	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.00054	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.00054	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.00054	mg/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	0.0027	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0027	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.00054	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.00054	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.00054	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.00054	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.00054	mg/kg	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0305		
Lab Sample ID:	JD29693-22	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	87.5
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	0.0011	mg/kg	
142-28-9	1,3-Dichloropropane	ND	0.0011	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0011	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0011	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0011	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0011	mg/kg	
100-41-4	Ethylbenzene	ND	0.00054	mg/kg	
76-13-1	Freon 113	ND	0.0027	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0027	mg/kg	
591-78-6	2-Hexanone	ND	0.0027	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0011	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0011	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.00054	mg/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	0.0027	mg/kg	
74-95-3	Methylene bromide	ND	0.0027	mg/kg	
75-09-2	Methylene chloride	ND	0.0027	mg/kg	
91-20-3	Naphthalene	ND	0.0027	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0011	mg/kg	
100-42-5	Styrene	ND	0.0011	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0011	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0011	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0011	mg/kg	
109-99-9	Tetrahydrofuran	ND	0.0054	mg/kg	
108-88-3	Toluene	ND	0.00054	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0027	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0027	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0011	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0011	mg/kg	
79-01-6	Trichloroethene	ND	0.00054	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0027	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0027	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0011	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0011	mg/kg	
75-01-4	Vinyl chloride	ND	0.0011	mg/kg	
	m,p-Xylene	ND	0.00054	mg/kg	
95-47-6	o-Xylene	ND	0.00054	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		72-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0305		
Lab Sample ID:	JD29693-22	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8260D	**Percent Solids:**	87.5
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	113%		75-131%
2037-26-5	Toluene-D8	104%		81-121%
460-00-4	4-Bromofluorobenzene	102%		60-141%

(a) Response factor for this compound is below 0.05 in the inital and continuing calibrations.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0305		
Lab Sample ID:	JD29693-22	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	87.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101779.D	1	08/19/21 07:47	CS	08/17/21 16:30	OP34846A	E4M4744
Run #2	4M101846.D	2	08/24/21 06:16	CS	08/17/21 16:30	OP34846A	E4M4747
Run #3	4M101840.D	20	08/24/21 04:12	CS	08/17/21 16:30	OP34846A	E4M4747
Run #4	4M101852.D	40	08/24/21 13:09	KLS	08/17/21 16:30	OP34846A	E4M4748

	Initial Weight	Final Volume
Run #1	30.8 g	1.0 ml
Run #2	30.8 g	1.0 ml
Run #3	30.8 g	1.0 ml
Run #4	30.8 g	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	0.0402	0.0037	mg/kg	
208-96-8	Acenaphthylene	0.223 [a]	0.0074	mg/kg	
120-12-7	Anthracene	0.535 [b]	0.074	mg/kg	
56-55-3	Benzo(a)anthracene	2.04 [b]	0.074	mg/kg	
50-32-8	Benzo(a)pyrene	1.78 [b]	0.074	mg/kg	
205-99-2	Benzo(b)fluoranthene	2.89 [b]	0.074	mg/kg	
191-24-2	Benzo(g,h,i)perylene	1.37 [b]	0.074	mg/kg	
207-08-9	Benzo(k)fluoranthene	0.982 [b]	0.074	mg/kg	
218-01-9	Chrysene	2.14 [b]	0.074	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	0.324 [a]	0.0074	mg/kg	
206-44-0	Fluoranthene	3.85 [c]	0.15	mg/kg	
86-73-7	Fluorene	0.125	0.0037	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	1.37 [b]	0.074	mg/kg	
91-20-3	Naphthalene	0.0964	0.0037	mg/kg	
85-01-8	Phenanthrene	2.38 [b]	0.074	mg/kg	
129-00-0	Pyrene	4.06 [c]	0.15	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
4165-60-0	Nitrobenzene-d5	55%	57%	62%	39-90%
321-60-8	2-Fluorobiphenyl	51%	54%	62%	35-84%
1718-51-0	Terphenyl-d14	52%	56%	66%	42-95%

(a) Result is from Run# 2
(b) Result is from Run# 3
(c) Result is from Run# 4

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0305		
Lab Sample ID:	JD29693-22	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	87.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G39989.D	1	08/13/21 05:15	CP	08/12/21 18:10	OP34851	G8G1684
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.00073	mg/kg	
15972-60-8	Alachlor	ND	0.0073	mg/kg	
319-84-6	alpha-BHC	ND	0.00073	mg/kg	
319-85-7	beta-BHC	ND	0.00073	mg/kg	
319-86-8	delta-BHC	ND	0.00073	mg/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.00073	mg/kg	
12789-03-6	Chlordane	ND	0.037	mg/kg	
60-57-1	Dieldrin	ND	0.00073	mg/kg	
72-54-8	4,4'-DDD [a]	0.0071	0.00073	mg/kg	
72-55-9	4,4'-DDE	ND	0.00073	mg/kg	
50-29-3	4,4'-DDT	ND	0.00073	mg/kg	
72-20-8	Endrin	ND	0.00073	mg/kg	
1031-07-8	Endosulfan sulfate	ND	0.00073	mg/kg	
7421-93-4	Endrin aldehyde	ND	0.00073	mg/kg	
959-98-8	Endosulfan-I	ND	0.00073	mg/kg	
33213-65-9	Endosulfan-II	ND	0.00073	mg/kg	
76-44-8	Heptachlor	ND	0.00073	mg/kg	
1024-57-3	Heptachlor epoxide	ND	0.00073	mg/kg	
72-43-5	Methoxychlor	ND	0.0015	mg/kg	
53494-70-5	Endrin ketone	ND	0.00073	mg/kg	
8001-35-2	Toxaphene	ND	0.018	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		27-138%
877-09-8	Tetrachloro-m-xylene	87%		27-138%
2051-24-3	Decachlorobiphenyl	83%		10-179%
2051-24-3	Decachlorobiphenyl	189% [b]		10-179%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Outside control limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0305		
Lab Sample ID:	JD29693-22	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8082A SW846 3540C	**Percent Solids:**	87.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G109313.D	1	08/15/21 20:06	TL	08/13/21 17:50	OP34852	G5G2756
Run #2							

	Initial Weight	Final Volume
Run #1	10.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.057	mg/kg	
11104-28-2	Aroclor 1221	ND	0.057	mg/kg	
11141-16-5	Aroclor 1232	ND	0.057	mg/kg	
53469-21-9	Aroclor 1242	ND	0.057	mg/kg	
12672-29-6	Aroclor 1248	ND	0.057	mg/kg	
11097-69-1	Aroclor 1254	ND	0.057	mg/kg	
11096-82-5	Aroclor 1260	ND	0.057	mg/kg	
11100-14-4	Aroclor 1268	ND	0.057	mg/kg	
37324-23-5	Aroclor 1262	ND	0.057	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		24-152%
877-09-8	Tetrachloro-m-xylene	89%		24-152%
2051-24-3	Decachlorobiphenyl	99%		10-172%
2051-24-3	Decachlorobiphenyl	77%		10-172%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0305		
Lab Sample ID:	JD29693-22	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3546	**Percent Solids:**	87.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y40022.D	1	08/14/21 01:56	RK	08/12/21 18:15	OP34854	G8Y1646
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	430	7.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	56%		30-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-3-0305		
Lab Sample ID:	JD29693-22	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	87.5
Project:	43 Hempstead Street, New London, CT		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 2.3	2.3	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Arsenic	3.9	2.3	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Barium	69.5	23	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Beryllium	0.39	0.23	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Cadmium	< 0.58	0.58	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Chromium	8.5	1.2	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Copper	30.4	2.9	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Lead	115	2.3	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Mercury	0.38	0.031	mg/kg	1	08/20/21	08/20/21	LM	SW846 7471B [1]	SW846 7471B [4]
Nickel	8.1	4.6	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Silver	< 0.58	0.58	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Vanadium	16.9	5.8	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]
Zinc	81.4	5.8	mg/kg	1	08/23/21	08/23/21	ND	SW846 6010D [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA51006
(2) Instrument QC Batch: MA51020
(3) Prep QC Batch: MP28178
(4) Prep QC Batch: MP28187

RL = Reporting Limit

5

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

SO
SLL

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-02-FORM-Standard COC

FED-EX Tracking #:
Bottle Order Control #: JD29693
SGS Quote #: TF-68321-148
SGS Job #: NEIMAL89598

Client / Reporting Information

Company Name: Nobis
Street Address: 585 Middlesex St
City / State / Zip: Lowell MA 01851
Project Contact / E-mail: Jeff Brunelle JBrunelle@nobisgroup.com
Phone #: 603-508-0084
Sampler(s) Name(s) / Phone #: A Epstein

Project Information

Project Name: 43 Hempstead St New London CT
Street: 43 Hempstead
City / State: New London CT
Project #: 93203.15
Client Purchase Order #: 93203.15/208
Project Manager: Jeff Brunelle

Billing Information (If different from Report to)

Company Name: Same
Street Address:
City / State / Zip:
Attention:

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	VOCs	ETPH	PAH SIM	Pesticides	PCBs Soxhlet	RCP metals + Hg	LAB USE ONLY
1	B-10-0002		8/9/21	915	AE	G	S	5					2	2	1		X	X	X	X	X	X	P51
2	B-10-0304			920													X	X	X	X	X	X	1414
3	B-7-0002			945													X	X	X	X	X	X	4012
4	B-7-0507			950													X	X	X	X	X	X	4013
5	B-9-0002			1005													X	X	X	X	X	X	D45
6	B-9-0305			1010													X	X	X	X	X	X	
7	B-8-0002			1026													X	X	X	X	X	X	
8	FD-01			1600													X	X	X	X	X	X	
9	B-8-0507			1025													X	X	X	X	X	X	
10	MW-6-0002			1210													X	X	X	X	X	X	
11	MW-6-0305			1215													X	X	X	X	X	X	
12	MW-5-0002			1330													X	X	X	X	X	X	

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [x] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special instructions

Hold remaining soil for potential SPLP ETPH, SPLP PAH, SPLP metals

SGS-ACCUTEST MARLBOR 8/10

http://www.sgs.com/en/terms-and-condition

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by	Date / Time	Received By	Relinquished By	Date / Time	Received By
1 MCS	8/10/21 14:55	1 [illegible]	2 [illegible]	8/10/21 15:00	2 Fed Ex
3 Fedex	8-11-21 8:03	3 [illegible]	4		4
5		5			

Custody Seal # 17403, 15404, 15 905 — Intact / Not Intact — Preserved where applicable — Absent — Therm. ID: — On Ice — Cooler Temp. °C 3.4°C

JD29693: Chain of Custody
Page 1 of 3

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-02-FORM-Standard COC

FED-EX Tracking #:
Bottle Order Control #: JD29693
SGS Quote #:
SGS Job #:

Client / Reporting Information

Company Name: NoBis
Street Address: 565 Middlesex St
City: Lowell State: MA Zip: 01851
Project Contact: Jeff Brunelle E-mail: JBrunelle@nobis-group.com
Phone #: 603-505-0084
Sampler(s) Name(s): AEpstein Phone #:

Project Information

Project Name: 43 Hempstead St New London CT
Street: 43 Hempstead
City: New London State: CT
Project #: 93203.15
Client Purchase Order #: 93203.15 / 206
Project Manager: Jeff Brunelle

Billing Information (If different from Report to)
Company Name: Same
Street Address:
City: State: Zip:
Attention:

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	VOCs	ETPH	PAH SIM	Pesticides	PCB Soxhlet	RCP Metals + Hg						LAB USE ONLY
13	MW-05-0810		8/9/21	1340	AE	G	S	5					2	2	1		X	X	X	X	X	X						
14	TB-01			1605				3						2	1		X											
15	MW-4-0002		8/10/21	915				5					2	2	1		X	X	X	X	X	X						
16	MW-4-0204			925													X	X	X	X	X	X						
17	MW-1R-0002			1100													X	X	X	X	X	X						
18	MW-1R-0406			1105													X	X	X	X	X	X						
19	B-2-0002			1305				15					6	6	3		X	X	X	X	X	X						
20	B-2-0507			1255				5					2	2	1		X	X	X	X	X	X						
21	B-3-0002			1325				5									X	X	X	X	X	X						
22	B-3-0305			1330				5									X	X	X	X	X	X						

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink. * Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Hold remaining soil for potential SPLP ETPH, SPLP PAH, SPLP Metals
B-2-0002 MS/MSD

SGS-ACCUTEST MARLBOR 8/10

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	8/10/21	2	2	8/10/21 1900	2
Relinquished by: 3	Date / Time: 8/11/21	Received By: 3	Relinquished By: 4	Date / Time:	Received By: 4
Relinquished by: 5	Date / Time:	Received By: 5	Custody Seal #	[ ] Intact [ ] Not intact	Preserved where applicable [ ] Absent

On Ice: Cooler Temp. °C: Therm. ID:

5.1 5

SGS Sample Receipt Summary

Job Number: JD29693 **Client:** NOBIS ENGINEERING, INC. **Project:** SO: 43 HEMPSTEAD STREET, NEW LONDON,

Date / Time Received: 8/10/2021 6:00:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 2: (3.7); Cooler 3: (2.8);

Cooler Temps (Corrected) °C: Cooler 2: (3.7); Cooler 3: (2.8);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD29693: Chain of Custody
Page 3 of 3

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **SGS North America Inc.** **Client:** **Nobis Engineering, Inc.**

Project Location: **43 Hempstead Street, New London, CT** **Project Number:** **93203.15 / 1000**

Sampling Date(s): **8/9/2021**

Laboratory Sample ID(s): JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13, JD29693-14, JD29693-15, JD29693-16, JD29693-17, JD29693-18, JD29693-19, JD29693-20, JD29693-19S, JD29693-19D, JD29693-21, JD29693-22

Methods: CT-ETPH, EPA 160.3 M, SM2540 G 18TH ED MOD, SW846 6010D, SW846 7471B, SW846 8081B, SW846 8082A, SW846 8260D, SW846 8270E BY SIM

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

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

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

Authorized Signature: Position: General Manager

Printed Name: Mike Earp Date: 8/30/2021

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD29693

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29693-1 B-10-0002	Collected: 09-AUG-21 09:15 By: AE		Received: 10-AUG-21 By: MK			
JD29693-1	SM2540 G 18TH ED MOD	12-AUG-21 17:00	BG			SOL104
JD29693-1	SW846 8260D	12-AUG-21 18:17	PS			V8260RCP
JD29693-1	CT-ETPH	12-AUG-21 23:53	TL	12-AUG-21	KM	BCTTPH
JD29693-1	SW846 8081B	13-AUG-21 22:15	RK	12-AUG-21	KD	P8081RCP
JD29693-1	SW846 8270E BY SIM	17-AUG-21 08:08	CS	11-AUG-21	NT	B8270SIMPAH
JD29693-1	SW846 8082A	19-AUG-21 01:11	RK	17-AUG-21	TC	P8082SOXHLETRCP
JD29693-1	SW846 8082A	19-AUG-21 20:41	TC	17-AUG-21	TC	P8082SOXHLETRCP
JD29693-1	SW846 7471B	20-AUG-21 11:18	LM	20-AUG-21	LM	HG
JD29693-1	SW846 6010D	23-AUG-21 19:05	ND	20-AUG-21	SF	AG,AS,BA,BE,CD,CR,CU,NI,PB, SB,SE,TL,V,ZN
JD29693-2 B-10-0204	Collected: 09-AUG-21 09:20 By: AE		Received: 10-AUG-21 By: MK			
JD29693-2	SM2540 G 18TH ED MOD	12-AUG-21 17:00	BG			SOL104
JD29693-2	CT-ETPH	12-AUG-21 18:38	TL	12-AUG-21	KM	BCTTPH
JD29693-2	SW846 8260D	12-AUG-21 18:45	PS			V8260RCP
JD29693-2	SW846 8081B	13-AUG-21 15:15	TC	12-AUG-21	KD	P8081RCP
JD29693-2	SW846 8082A	14-AUG-21 00:31	TC	12-AUG-21	KD	P8082SOXHLETRCP
JD29693-2	SW846 8270E BY SIM	17-AUG-21 05:55	CS	11-AUG-21	NT	B8270SIMPAH
JD29693-2	SW846 7471B	20-AUG-21 11:24	LM	20-AUG-21	LM	HG
JD29693-2	SW846 6010D	23-AUG-21 19:10	ND	20-AUG-21	SF	AG,AS,BA,BE,CD,CR,CU,NI,PB, SB,SE,TL,V,ZN
JD29693-3 B-7-0002	Collected: 09-AUG-21 09:45 By: AE		Received: 10-AUG-21 By: MK			
JD29693-3	SM2540 G 18TH ED MOD	12-AUG-21 17:00	BG			SOL104
JD29693-3	SW846 8260D	12-AUG-21 19:12	PS			V8260RCP
JD29693-3	CT-ETPH	12-AUG-21 22:36	TL	12-AUG-21	KM	BCTTPH
JD29693-3	SW846 8081B	13-AUG-21 22:31	RK	12-AUG-21	KD	P8081RCP
JD29693-3	SW846 8270E BY SIM	17-AUG-21 06:39	CS	11-AUG-21	NT	B8270SIMPAH
JD29693-3	SW846 8270E BY SIM	17-AUG-21 11:18	CS	11-AUG-21	NT	B8270SIMPAH
JD29693-3	SW846 8082A	18-AUG-21 23:44	RK	17-AUG-21	TG	P8082SOXHLETRCP
JD29693-3	SW846 7471B	20-AUG-21 11:25	LM	20-AUG-21	LM	HG
JD29693-3	SW846 6010D	23-AUG-21 19:15	ND	20-AUG-21	SF	AG,AS,BA,BE,CD,CR,CU,NI,PB, SB,SE,TL,V,ZN

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD29693

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29693-4 B-7-0507	Collected: 09-AUG-21 09:50 By: AE		Received: 10-AUG-21 By: MK			
JD29693-4	SM2540 G 18TH ED MOD	12-AUG-21 17:00	BG			SOL104
JD29693-4	CT-ETPH	12-AUG-21 19:17	TL	12-AUG-21	KM	BCTTPH
JD29693-4	SW846 8260D	12-AUG-21 19:40	PS			V8260RCP
JD29693-4	SW846 8081B	13-AUG-21 22:47	RK	12-AUG-21	KD	P8081RCP
JD29693-4	SW846 8082A	14-AUG-21 01:38	TC	12-AUG-21	KD	P8082SOXHLETRCP
JD29693-4	SW846 8270E BY SIM	17-AUG-21 04:29	CS	11-AUG-21	NT	B8270SIMPAH
JD29693-4	SW846 7471B	20-AUG-21 11:27	LM	20-AUG-21	LM	HG
JD29693-4	SW846 6010D	23-AUG-21 19:20	ND	20-AUG-21	SF	AG,AS,BA,BE,CD,CR,CU,NI,PB, SB,SE,TL,V,ZN
JD29693-5 B-9-0002	Collected: 09-AUG-21 10:05 By: AE		Received: 10-AUG-21 By: MK			
JD29693-5	SM2540 G 18TH ED MOD	12-AUG-21 17:00	BG			SOL104
JD29693-5	CT-ETPH	12-AUG-21 19:57	TL	12-AUG-21	KM	BCTTPH
JD29693-5	SW846 8260D	12-AUG-21 20:07	PS			V8260RCP
JD29693-5	SW846 8081B	13-AUG-21 23:04	RK	12-AUG-21	KD	P8081RCP
JD29693-5	SW846 8082A	14-AUG-21 02:11	TC	12-AUG-21	KD	P8082SOXHLETRCP
JD29693-5	SW846 8270E BY SIM	17-AUG-21 05:34	CS	11-AUG-21	NT	B8270SIMPAH
JD29693-5	SW846 7471B	20-AUG-21 11:29	LM	20-AUG-21	LM	HG
JD29693-5	SW846 6010D	23-AUG-21 19:25	ND	20-AUG-21	SF	AG,AS,BA,BE,CD,CR,CU,NI,PB, SB,SE,TL,V,ZN
JD29693-6 B-9-0305	Collected: 09-AUG-21 10:10 By: AE		Received: 10-AUG-21 By: MK			
JD29693-6	SM2540 G 18TH ED MOD	12-AUG-21 17:00	BG			SOL104
JD29693-6	SW846 8260D	12-AUG-21 20:35	PS			V8260RCP
JD29693-6	CT-ETPH	12-AUG-21 23:14	TL	12-AUG-21	KM	BCTTPH
JD29693-6	SW846 8081B	13-AUG-21 23:20	RK	12-AUG-21	KD	P8081RCP
JD29693-6	SW846 8082A	14-AUG-21 04:57	TC	12-AUG-21	KD	P8082SOXHLETRCP
JD29693-6	SW846 8270E BY SIM	17-AUG-21 07:01	CS	11-AUG-21	NT	B8270SIMPAH
JD29693-6	SW846 7471B	20-AUG-21 11:30	LM	20-AUG-21	LM	HG
JD29693-6	SW846 6010D	23-AUG-21 19:30	ND	20-AUG-21	SF	AG,AS,BA,BE,CD,CR,CU,NI,PB, SB,SE,TL,V,ZN

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD29693

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29693-7 B-8-0002	Collected: 09-AUG-21 10:20 By: AE		Received: 10-AUG-21 By: MK			
JD29693-7	SM2540 G 18TH ED MOD	12-AUG-21 17:00	BG			SOL104
JD29693-7	SW846 8260D	12-AUG-21 21:02	PS			V8260RCP
JD29693-7	CT-ETPH	13-AUG-21 00:31	TL	12-AUG-21	KM	BCTTPH
JD29693-7	SW846 8081B	13-AUG-21 23:36	RK	12-AUG-21	KD	P8081RCP
JD29693-7	SW846 8081B	16-AUG-21 14:18	TC	12-AUG-21	KD	P8081RCP
JD29693-7	SW846 8270E BY SIM	17-AUG-21 08:30	CS	11-AUG-21	NT	B8270SIMPAH
JD29693-7	SW846 8270E BY SIM	17-AUG-21 11:40	CS	11-AUG-21	NT	B8270SIMPAH
JD29693-7	SW846 8082A	19-AUG-21 01:46	RK	17-AUG-21	TC	P8082SOXHLETRCP
JD29693-7	SW846 7471B	20-AUG-21 11:32	LM	20-AUG-21	LM	HG
JD29693-7	SW846 6010D	23-AUG-21 19:35	ND	20-AUG-21	SF	AG,AS,BA,BE,CD,CR,CU,NI,PB, SB,SE,TL,V,ZN
JD29693-8 FD-01	Collected: 09-AUG-21 16:00 By: AE		Received: 10-AUG-21 By: MK			
JD29693-8	SM2540 G 18TH ED MOD	12-AUG-21 17:00	BG			SOL104
JD29693-8	SW846 8260D	12-AUG-21 21:30	PS			V8260RCP
JD29693-8	CT-ETPH	13-AUG-21 01:10	TL	12-AUG-21	KM	BCTTPH
JD29693-8	SW846 8081B	13-AUG-21 23:53	RK	12-AUG-21	KD	P8081RCP
JD29693-8	SW846 8270E BY SIM	17-AUG-21 08:52	CS	11-AUG-21	NT	B8270SIMPAH
JD29693-8	SW846 8270E BY SIM	17-AUG-21 12:02	CS	11-AUG-21	NT	B8270SIMPAH
JD29693-8	SW846 8082A	19-AUG-21 02:03	RK	17-AUG-21	TC	P8082SOXHLETRCP
JD29693-8	SW846 7471B	20-AUG-21 11:37	LM	20-AUG-21	LM	HG
JD29693-8	SW846 6010D	23-AUG-21 19:40	ND	20-AUG-21	SF	AG,AS,BA,BE,CD,CR,CU,NI,PB, SB,SE,TL,V,ZN
JD29693-9 B-8-0507	Collected: 09-AUG-21 10:25 By: AE		Received: 10-AUG-21 By: MK			
JD29693-9	SM2540 G 18TH ED MOD	12-AUG-21 17:00	BG			SOL104
JD29693-9	CT-ETPH	12-AUG-21 20:36	TL	12-AUG-21	KM	BCTTPH
JD29693-9	SW846 8260D	12-AUG-21 21:57	PS			V8260RCP
JD29693-9	SW846 8081B	14-AUG-21 00:09	RK	12-AUG-21	KD	P8081RCP
JD29693-9	SW846 8082A	14-AUG-21 06:03	TC	12-AUG-21	KD	P8082SOXHLETRCP
JD29693-9	SW846 8270E BY SIM	17-AUG-21 04:08	CS	11-AUG-21	NT	B8270SIMPAH
JD29693-9	SW846 7471B	20-AUG-21 11:38	LM	20-AUG-21	LM	HG

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD29693

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29693-9	SW846 6010D	23-AUG-21 19:55	ND	20-AUG-21	SF	AG,AS,BA,BE,CD,CR,CU,NI,PB, SB,SE,TL,V,ZN
JD29693-10 Collected: 09-AUG-21 12:10 By: AE Received: 10-AUG-21 By: MK MW-6-0002						
JD29693-10	SM2540 G 18TH ED MOD	12-AUG-21 17:00	BG			SOL104
JD29693-10	SW846 8260D	12-AUG-21 22:24	PS			V8260RCP
JD29693-10	CT-ETPH	13-AUG-21 01:48	TL	12-AUG-21	KM	BCTTPH
JD29693-10	SW846 8081B	14-AUG-21 00:26	RK	12-AUG-21	KD	P8081RCP
JD29693-10	SW846 8082A	14-AUG-21 08:16	TC	12-AUG-21	KD	P8082SOXHLETRCP
JD29693-10	SW846 8270E BY SIM	17-AUG-21 09:36	CS	11-AUG-21	NT	B8270SIMPAH
JD29693-10	SW846 8270E BY SIM	17-AUG-21 18:00	KLS	11-AUG-21	NT	B8270SIMPAH
JD29693-10	SW846 7471B	20-AUG-21 11:40	LM	20-AUG-21	LM	HG
JD29693-10	SW846 6010D	23-AUG-21 20:00	ND	20-AUG-21	SF	AG,AS,BA,BE,CD,CR,CU,NI,PB, SB,SE,TL,V,ZN
JD29693-11 Collected: 09-AUG-21 12:15 By: AE Received: 10-AUG-21 By: MK MW-6-0305						
JD29693-11	SM2540 G 18TH ED MOD	12-AUG-21 17:00	BG			SOL104
JD29693-11	CT-ETPH	13-AUG-21 02:26	TL	12-AUG-21		
JD29693-11	SW846 8260D	13-AUG-21 15:44	TDN			V8260RCP
JD29693-11	SW846 8081B	14-AUG-21 00:42	RK	12-AUG-21	KD	P8081RCP
JD29693-11	SW846 8082A	14-AUG-21 07:42	TC	12-AUG-21	KD	P8082SOXHLETRCP
JD29693-11	SW846 8081B	16-AUG-21 14:34	TC	12-AUG-21	KD	P8081RCP
JD29693-11	SW846 8270E BY SIM	17-AUG-21 06:17	CS	11-AUG-21	NT	B8270SIMPAH
JD29693-11	SW846 8270E BY SIM	17-AUG-21 16:52	KLS	11-AUG-21	NT	B8270SIMPAH
JD29693-11	SW846 8270E BY SIM	17-AUG-21 17:14	KLS	11-AUG-21	NT	B8270SIMPAH
JD29693-11	SW846 7471B	20-AUG-21 11:42	LM	20-AUG-21	LM	HG
JD29693-11	CT-ETPH	23-AUG-21 17:32	TL	12-AUG-21	KM	BCTTPH
JD29693-11	SW846 6010D	23-AUG-21 20:05	ND	20-AUG-21	SF	BA,CR,NI,TL,ZN
JD29693-11	SW846 6010D	25-AUG-21 16:10	ND	20-AUG-21	SF	AG,AS,BE,CD,CU,PB,SB,SE,V
JD29693-12 Collected: 09-AUG-21 13:30 By: AE Received: 10-AUG-21 By: MK MW-5-0002						
JD29693-12	SM2540 G 18TH ED MOD	12-AUG-21 17:00	BG			SOL104
JD29693-12	CT-ETPH	12-AUG-21 21:19	TL	12-AUG-21	KM	BCTTPH
JD29693-12	SW846 8260D	12-AUG-21 22:51	PS			V8260RCP

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD29693

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29693-12	SW846 8082A	14-AUG-21 06:36	TC	12-AUG-21	KD	P8082SOXHLETRCP
JD29693-12	SW846 8270E BY SIM	17-AUG-21 05:12	CS	11-AUG-21	NT	B8270SIMPAH
JD29693-12	SW846 7471B	20-AUG-21 11:44	LM	20-AUG-21	LM	HG
JD29693-12	SW846 6010D	23-AUG-21 20:10	ND	20-AUG-21	SF	AG,AS,BA,BE,CD,CR,CU,NI,PB,SB,SE,TL,V,ZN
JD29693-12	SW846 8081B	24-AUG-21 15:35	TC	12-AUG-21	KD	P8081RCP
JD29693-13	Collected: 09-AUG-21 13:40 By: AE MW-05-0810		Received: 10-AUG-21 By: MK			
JD29693-13	SM2540 G 18TH ED MOD	10-AUG-21 17:00	BG			SOL104
JD29693-13	CT-ETPH	12-AUG-21 21:57	TL	12-AUG-21	KM	BCTTPH
JD29693-13	SW846 8260D	13-AUG-21 16:12	TDN			V8260RCP
JD29693-13	SW846 8082A	14-AUG-21 07:09	TC	12-AUG-21	KD	P8082SOXHLETRCP
JD29693-13	SW846 8270E BY SIM	17-AUG-21 04:50	CS	11-AUG-21	NT	B8270SIMPAH
JD29693-13	SW846 7471B	20-AUG-21 11:45	LM	20-AUG-21	LM	HG
JD29693-13	SW846 6010D	23-AUG-21 20:15	ND	20-AUG-21	SF	AG,AS,BA,BE,CD,CR,CU,NI,SB,SE,TL,V,ZN
JD29693-13	SW846 8081B	24-AUG-21 16:08	TC	12-AUG-21	KD	P8081RCP
JD29693-13	SW846 6010D	25-AUG-21 16:15	ND	20-AUG-21	SF	PB
JD29693-14	Collected: 10-AUG-21 13:30 By: AE TB-01		Received: 10-AUG-21 By: MK			
JD29693-14	SW846 8260D	23-AUG-21 17:40	PS			V8260RCP
JD29693-15	Collected: 10-AUG-21 09:15 By: AE MW-4-0002		Received: 10-AUG-21 By: MK			
JD29693-15	SM2540 G 18TH ED MOD	10-AUG-21 17:00	BG			SOL104
JD29693-15	CT-ETPH	13-AUG-21 01:48	TL	12-AUG-21	KM	BCTTPH
JD29693-15	SW846 8260D	13-AUG-21 16:40	TDN			V8260RCP
JD29693-15	SW846 8081B	14-AUG-21 01:31	RK	12-AUG-21	KD	P8081RCP
JD29693-15	SW846 8082A	15-AUG-21 14:36	TL	13-AUG-21	KM	P8082SOXHLETRCP
JD29693-15	SW846 8270E BY SIM	17-AUG-21 09:14	CS	11-AUG-21	NT	B8270SIMPAH
JD29693-15	SW846 8270E BY SIM	17-AUG-21 17:37	KLS	11-AUG-21	NT	B8270SIMPAH
JD29693-15	SW846 8270E BY SIM	18-AUG-21 18:09	KLS	11-AUG-21	NT	B8270SIMPAH
JD29693-15	SW846 7471B	20-AUG-21 11:50	LM	20-AUG-21	LM	HG
JD29693-15	SW846 6010D	23-AUG-21 20:20	ND	20-AUG-21	SF	BA,CR,NI,V,ZN
JD29693-15	SW846 6010D	25-AUG-21 16:20	ND	20-AUG-21	SF	AG,AS,BE,CD,CU,SB,SE,TL

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD29693

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29693-15	SW846 6010D	28-AUG-21 13:05	ND	20-AUG-21	SF	PB
JD29693-16	Collected: 10-AUG-21 09:25 By: AE		Received: 10-AUG-21 By: MK			
MW-4-0204						
JD29693-16	SM2540 G 18TH ED MOD	12-AUG-21 17:00	BG			SOL104
JD29693-16	CT-ETPH	12-AUG-21 21:57	TL	12-AUG-21	KM	BCTTPH
JD29693-16	SW846 8081B	13-AUG-21 03:53	CP	12-AUG-21	JH	P8081RCP
JD29693-16	SW846 8260D	13-AUG-21 17:08	TDN			V8260RCP
JD29693-16	SW846 8082A	15-AUG-21 15:09	TL	13-AUG-21	KM	P8082SOXHLETRCP
JD29693-16	SW846 8270E BY SIM	19-AUG-21 07:24	CS	17-AUG-21	JL	B8270SIMPAH
JD29693-16	SW846 7471B	20-AUG-21 14:37	LM	20-AUG-21	LM	HG
JD29693-16	SW846 6010D	23-AUG-21 20:24	ND	20-AUG-21	SF	AG,AS,BA,BE,CD,CR,CU,NI,PB, SB,SE,TL,V
JD29693-16	SW846 6010D	25-AUG-21 16:25	ND	20-AUG-21	SF	ZN
JD29693-17	Collected: 10-AUG-21 11:00 By: AE		Received: 10-AUG-21 By: MK			
MW-1R-0002						
JD29693-17	SM2540 G 18TH ED MOD	12-AUG-21 17:00	BG			SOL104
JD29693-17	CT-ETPH	13-AUG-21 02:26	TL	12-AUG-21	KM	BCTTPH
JD29693-17	SW846 8081B	13-AUG-21 04:09	CP	12-AUG-21	JH	P8081RCP
JD29693-17	SW846 8260D	13-AUG-21 17:36	TDN			V8260RCP
JD29693-17	SW846 8082A	15-AUG-21 17:54	TL	13-AUG-21	KM	P8082SOXHLETRCP
JD29693-17	SW846 8270E BY SIM	19-AUG-21 10:02	CS	17-AUG-21	JL	B8270SIMPAH
JD29693-17	SW846 7471B	20-AUG-21 11:53	LM	20-AUG-21	LM	HG
JD29693-17	SW846 6010D	23-AUG-21 20:29	ND	20-AUG-21	SF	AG,AS,BA,BE,CD,CR,CU,NI,PB, SB,SE,TL,V,ZN
JD29693-17	SW846 8270E BY SIM	24-AUG-21 03:30	CS	17-AUG-21	JL	B8270SIMPAH
JD29693-17	SW846 8270E BY SIM	24-AUG-21 05:34	CS	17-AUG-21	JL	B8270SIMPAH
JD29693-18	Collected: 10-AUG-21 11:05 By: AE		Received: 10-AUG-21 By: MK			
MW-1R-0406						
JD29693-18	SM2540 G 18TH ED MOD	12-AUG-21 17:00	BG			SOL104
JD29693-18	CT-ETPH	12-AUG-21 22:36	TL	12-AUG-21	KM	BCTTPH
JD29693-18	SW846 8081B	13-AUG-21 04:26	CP	12-AUG-21	JH	P8081RCP
JD29693-18	SW846 8082A	15-AUG-21 18:27	TL	13-AUG-21	KM	P8082SOXHLETRCP
JD29693-18	SW846 8081B	16-AUG-21 14:02	TC	12-AUG-21	JH	P8081RCP
JD29693-18	SW846 8260D	17-AUG-21 13:07	PS			V8260RCP

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD29693

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29693-18	SW846 8270E BY SIM	19-AUG-21 08:09	CS	17-AUG-21	JL	B8270SIMPAH
JD29693-18	SW846 7471B	20-AUG-21 12:08	LM	20-AUG-21	LM	HG
JD29693-18	SW846 6010D	23-AUG-21 20:34	ND	20-AUG-21	SF	AG,AS,BA,BE,CD,CR,CU,NI,PB, SB,SE,TL,V,ZN
JD29693-18	SW846 8270E BY SIM	24-AUG-21 04:53	CS	17-AUG-21	JL	B8270SIMPAH
JD29693-19	Collected: 10-AUG-21 13:05 By: AE		Received: 10-AUG-21 By: MK			
B-2-0002						
JD29693-19	SM2540 G 18TH ED MOD	12-AUG-21 17:00	BG			SOL104
JD29693-19	CT-ETPH	12-AUG-21 23:53	TL	12-AUG-21	KM	BCTTPH
JD29693-19	SW846 8081B	13-AUG-21 03:04	CP	12-AUG-21	JH	P8081RCP
JD29693-19	SW846 8082A	15-AUG-21 12:57	TL	13-AUG-21	KM	P8082SOXHLETRCP
JD29693-19	SW846 8260D	16-AUG-21 13:12	PS			V8260RCP
JD29693-19	SW846 8270E BY SIM	19-AUG-21 09:40	CS	17-AUG-21	JL	B8270SIMPAH
JD29693-19	SW846 7471B	20-AUG-21 14:28	LM	20-AUG-21	LM	HG
JD29693-19	SW846 6010D	23-AUG-21 18:40	ND	20-AUG-21	SF	AG,AS,BA,BE,CD,CR,CU,NI,SB, SE,TL,V,ZN
JD29693-19	SW846 8270E BY SIM	24-AUG-21 05:14	CS	17-AUG-21	JL	B8270SIMPAH
JD29693-19	SW846 6010D	25-AUG-21 16:00	ND	20-AUG-21	SF	PB
JD29693-20	Collected: 10-AUG-21 12:55 By: AE		Received: 10-AUG-21 By: MK			
B-2-0507						
JD29693-20	SM2540 G 18TH ED MOD	12-AUG-21 17:00	BG			SOL104
JD29693-20	CT-ETPH	12-AUG-21 23:14	TL	12-AUG-21	KM	BCTTPH
JD29693-20	SW846 8081B	13-AUG-21 04:42	CP	12-AUG-21	JH	P8081RCP
JD29693-20	SW846 8260D	13-AUG-21 18:32	TDN			V8260RCP
JD29693-20	SW846 8082A	15-AUG-21 19:00	TL	13-AUG-21	KM	P8082SOXHLETRCP
JD29693-20	SW846 8270E BY SIM	19-AUG-21 07:02	CS	17-AUG-21	JL	B8270SIMPAH
JD29693-20	SW846 7471B	20-AUG-21 12:09	LM	20-AUG-21	LM	HG
JD29693-20	SW846 6010D	23-AUG-21 20:10	ND	23-AUG-21	SF	AG,AS,BA,BE,CD,CR,CU,NI,PB, SB,SE,TL,V,ZN
JD29693-21	Collected: 10-AUG-21 13:25 By: AE		Received: 10-AUG-21 By: MK			
B-3-0002						
JD29693-21	SM2540 G 18TH ED MOD	12-AUG-21 17:00	BG			SOL104
JD29693-21	SW846 8081B	13-AUG-21 04:58	CP	12-AUG-21	JH	P8081RCP
JD29693-21	SW846 8260D	13-AUG-21 18:59	TDN			V8260RCP

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD29693

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29693-21	CT-ETPH	14-AUG-21 01:19	RK	12-AUG-21	KD	BCTTPH
JD29693-21	SW846 8082A	15-AUG-21 19:33	TL	13-AUG-21	KM	P8082SOXHLETRCP
JD29693-21	SW846 8270E BY SIM	19-AUG-21 10:24	CS	17-AUG-21	JL	B8270SIMPAH
JD29693-21	SW846 7471B	20-AUG-21 12:11	LM	20-AUG-21	LM	HG
JD29693-21	SW846 6010D	23-AUG-21 20:15	ND	23-AUG-21	SF	AG,AS,BA,BE,CD,CR,CU,NI,PB, SB,SE,TL,V,ZN
JD29693-21	SW846 8270E BY SIM	24-AUG-21 03:51	CS	17-AUG-21	JL	B8270SIMPAH
JD29693-21	SW846 8270E BY SIM	24-AUG-21 05:55	CS	17-AUG-21	JL	B8270SIMPAH
JD29693-22	Collected: 10-AUG-21 13:30 By: AE		Received: 10-AUG-21 By: MK			
B-3-0305						
JD29693-22	SM2540 G 18TH ED MOD	12-AUG-21 17:00	BG			SOL104
JD29693-22	SW846 8081B	13-AUG-21 05:15	CP	12-AUG-21	JH	P8081RCP
JD29693-22	SW846 8260D	13-AUG-21 19:27	TDN			V8260RCP
JD29693-22	CT-ETPH	14-AUG-21 01:56	RK	12-AUG-21	KD	BCTTPH
JD29693-22	SW846 8082A	15-AUG-21 20:06	TL	13-AUG-21	KM	P8082SOXHLETRCP
JD29693-22	SW846 8270E BY SIM	19-AUG-21 07:47	CS	17-AUG-21	JL	B8270SIMPAH
JD29693-22	SW846 7471B	20-AUG-21 12:13	LM	20-AUG-21	LM	HG
JD29693-22	SW846 6010D	23-AUG-21 20:20	ND	23-AUG-21	SF	AG,AS,BA,BE,CD,CR,CU,NI,PB, SB,SE,TL,V,ZN
JD29693-22	SW846 8270E BY SIM	24-AUG-21 04:12	CS	17-AUG-21	JL	B8270SIMPAH
JD29693-22	SW846 8270E BY SIM	24-AUG-21 06:16	CS	17-AUG-21	JL	B8270SIMPAH
JD29693-22	SW846 8270E BY SIM	24-AUG-21 13:09	KLS	17-AUG-21	JL	B8270SIMPAH

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V1C7850	SW846 8260D						
V1C7850-BS	67-64-1	Acetone	BSP	REC	86	%	70-130
V1C7850-BS	107-13-1	Acrylonitrile	BSP	REC	96	%	70-130
V1C7850-BS	71-43-2	Benzene	BSP	REC	96	%	70-130
V1C7850-BS	108-86-1	Bromobenzene	BSP	REC	95	%	70-130
V1C7850-BS	75-27-4	Bromodichloromethane	BSP	REC	96	%	70-130
V1C7850-BS	75-25-2	Bromoform	BSP	REC	92	%	70-130
V1C7850-BS	74-83-9	Bromomethane	BSP	REC	92	%	70-130
V1C7850-BS	78-93-3	2-Butanone (MEK)	BSP	REC	102	%	70-130
V1C7850-BS	104-51-8	n-Butylbenzene	BSP	REC	96	%	70-130
V1C7850-BS	135-98-8	sec-Butylbenzene	BSP	REC	96	%	70-130
V1C7850-BS	98-06-6	tert-Butylbenzene	BSP	REC	97	%	70-130
V1C7850-BS	75-15-0	Carbon disulfide	BSP	REC	100	%	70-130
V1C7850-BS	56-23-5	Carbon tetrachloride	BSP	REC	100	%	70-130
V1C7850-BS	108-90-7	Chlorobenzene	BSP	REC	94	%	70-130
V1C7850-BS	75-00-3	Chloroethane	BSP	REC	103	%	70-130
V1C7850-BS	67-66-3	Chloroform	BSP	REC	94	%	70-130
V1C7850-BS	74-87-3	Chloromethane	BSP	REC	99	%	70-130
V1C7850-BS	95-49-8	o-Chlorotoluene	BSP	REC	96	%	70-130
V1C7850-BS	106-43-4	p-Chlorotoluene	BSP	REC	92	%	70-130
V1C7850-BS	96-12-8	1,2-Dibromo-3-chloropropane	BSP	REC	104	%	70-130
V1C7850-BS	124-48-1	Dibromochloromethane	BSP	REC	96	%	70-130
V1C7850-BS	106-93-4	1,2-Dibromoethane	BSP	REC	97	%	70-130
V1C7850-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	95	%	70-130
V1C7850-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	95	%	70-130
V1C7850-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	91	%	70-130
V1C7850-BS	110-57-6	Trans-1,4-Dichloro-2-Butene	BSP	REC	98	%	70-130
V1C7850-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	93	%	70-130
V1C7850-BS	75-34-3	1,1-Dichloroethane	BSP	REC	104	%	70-130
V1C7850-BS	107-06-2	1,2-Dichloroethane	BSP	REC	90	%	70-130
V1C7850-BS	75-35-4	1,1-Dichloroethene	BSP	REC	96	%	70-130
V1C7850-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	95	%	70-130
V1C7850-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	96	%	70-130
V1C7850-BS	78-87-5	1,2-Dichloropropane	BSP	REC	99	%	70-130
V1C7850-BS	142-28-9	1,3-Dichloropropane	BSP	REC	96	%	70-130
V1C7850-BS	594-20-7	2,2-Dichloropropane	BSP	REC	98	%	70-130
V1C7850-BS	563-58-6	1,1-Dichloropropene	BSP	REC	104	%	70-130
V1C7850-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	96	%	70-130
V1C7850-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	99	%	70-130
V1C7850-BS	100-41-4	Ethylbenzene	BSP	REC	92	%	70-130
V1C7850-BS	76-13-1	Freon 113	BSP	REC	100	%	70-130
V1C7850-BS	87-68-3	Hexachlorobutadiene	BSP	REC	101	%	70-130
V1C7850-BS	591-78-6	2-Hexanone	BSP	REC	99	%	70-130

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V1C7850-BS	98-82-8	Isopropylbenzene	BSP	REC	93	%	70-130
V1C7850-BS	99-87-6	p-Isopropyltoluene	BSP	REC	96	%	70-130
V1C7850-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	99	%	70-130
V1C7850-BS	108-10-1	4-Methyl-2-pentanone(MIBK)	BSP	REC	94	%	70-130
V1C7850-BS	74-95-3	Methylene bromide	BSP	REC	93	%	70-130
V1C7850-BS	75-09-2	Methylene chloride	BSP	REC	95	%	70-130
V1C7850-BS	91-20-3	Naphthalene	BSP	REC	97	%	70-130
V1C7850-BS	103-65-1	n-Propylbenzene	BSP	REC	95	%	70-130
V1C7850-BS	100-42-5	Styrene	BSP	REC	91	%	70-130
V1C7850-BS	630-20-6	1,1,1,2-Tetrachloroethane	BSP	REC	93	%	70-130
V1C7850-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	96	%	70-130
V1C7850-BS	127-18-4	Tetrachloroethene	BSP	REC	96	%	70-130
V1C7850-BS	109-99-9	Tetrahydrofuran	BSP	REC	100	%	70-130
V1C7850-BS	108-88-3	Toluene	BSP	REC	93	%	70-130
V1C7850-BS	87-61-6	1,2,3-Trichlorobenzene	BSP	REC	99	%	70-130
V1C7850-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	97	%	70-130
V1C7850-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	100	%	70-130
V1C7850-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	97	%	70-130
V1C7850-BS	79-01-6	Trichloroethene	BSP	REC	97	%	70-130
V1C7850-BS	75-69-4	Trichlorofluoromethane	BSP	REC	100	%	70-130
V1C7850-BS	96-18-4	1,2,3-Trichloropropane	BSP	REC	99	%	70-130
V1C7850-BS	95-63-6	1,2,4-Trimethylbenzene	BSP	REC	97	%	70-130
V1C7850-BS	108-67-8	1,3,5-Trimethylbenzene	BSP	REC	96	%	70-130
V1C7850-BS	75-01-4	Vinyl chloride	BSP	REC	103	%	70-130
V1C7850-BS		m,p-Xylene	BSP	REC	91	%	70-130
V1C7850-BS	95-47-6	o-Xylene	BSP	REC	94	%	70-130
V1C7850-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	102	%	70-130
V1C7850-BS	2037-26-5	Toluene-D8	BSP	SURR	102	%	70-130
V1C7850-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	103	%	70-130
V1C7850-MB	1868-53-7	Dibromofluoromethane	MB	SURR	98	%	70-130
V1C7850-MB	2037-26-5	Toluene-D8	MB	SURR	105	%	70-130
V1C7850-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	101	%	70-130
JD29693-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	108	%	70-130
JD29693-1	2037-26-5	Toluene-D8	SAMP	SURR	107	%	70-130
JD29693-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	114	%	70-130
JD29693-2	1868-53-7	Dibromofluoromethane	SAMP	SURR	108	%	70-130
JD29693-2	2037-26-5	Toluene-D8	SAMP	SURR	105	%	70-130
JD29693-2	460-00-4	4-Bromofluorobenzene	SAMP	SURR	106	%	70-130
JD29693-3	1868-53-7	Dibromofluoromethane	SAMP	SURR	108	%	70-130
JD29693-3	2037-26-5	Toluene-D8	SAMP	SURR	109	%	70-130
JD29693-3	460-00-4	4-Bromofluorobenzene	SAMP	SURR	116	%	70-130
JD29693-4	1868-53-7	Dibromofluoromethane	SAMP	SURR	108	%	70-130
JD29693-4	2037-26-5	Toluene-D8	SAMP	SURR	102	%	70-130
JD29693-4	460-00-4	4-Bromofluorobenzene	SAMP	SURR	101	%	70-130
JD29693-5	1868-53-7	Dibromofluoromethane	SAMP	SURR	109	%	70-130

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD29693-5	2037-26-5	Toluene-D8	SAMP	SURR	104	%	70-130
JD29693-5	460-00-4	4-Bromofluorobenzene	SAMP	SURR	106	%	70-130
JD29693-6	1868-53-7	Dibromofluoromethane	SAMP	SURR	109	%	70-130
JD29693-6	2037-26-5	Toluene-D8	SAMP	SURR	104	%	70-130
JD29693-6	460-00-4	4-Bromofluorobenzene	SAMP	SURR	105	%	70-130
JD29693-7	1868-53-7	Dibromofluoromethane	SAMP	SURR	109	%	70-130
JD29693-7	2037-26-5	Toluene-D8	SAMP	SURR	103	%	70-130
JD29693-7	460-00-4	4-Bromofluorobenzene	SAMP	SURR	101	%	70-130
JD29693-8	1868-53-7	Dibromofluoromethane	SAMP	SURR	111	%	70-130
JD29693-8	2037-26-5	Toluene-D8	SAMP	SURR	102	%	70-130
JD29693-8	460-00-4	4-Bromofluorobenzene	SAMP	SURR	102	%	70-130
JD29693-9	1868-53-7	Dibromofluoromethane	SAMP	SURR	107	%	70-130
JD29693-9	2037-26-5	Toluene-D8	SAMP	SURR	103	%	70-130
JD29693-9	460-00-4	4-Bromofluorobenzene	SAMP	SURR	101	%	70-130
JD29693-10	1868-53-7	Dibromofluoromethane	SAMP	SURR	109	%	70-130
JD29693-10	2037-26-5	Toluene-D8	SAMP	SURR	107	%	70-130
JD29693-10	460-00-4	4-Bromofluorobenzene	SAMP	SURR	112	%	70-130
JD29693-12	1868-53-7	Dibromofluoromethane	SAMP	SURR	110	%	70-130
JD29693-12	2037-26-5	Toluene-D8	SAMP	SURR	103	%	70-130
JD29693-12	460-00-4	4-Bromofluorobenzene	SAMP	SURR	101	%	70-130
V1C7851	SW846 8260D						
V1C7851-BS	67-64-1	Acetone	BSP	REC	91	%	70-130
V1C7851-BS	107-13-1	Acrylonitrile	BSP	REC	95	%	70-130
V1C7851-BS	71-43-2	Benzene	BSP	REC	93	%	70-130
V1C7851-BS	108-86-1	Bromobenzene	BSP	REC	90	%	70-130
V1C7851-BS	75-27-4	Bromodichloromethane	BSP	REC	97	%	70-130
V1C7851-BS	75-25-2	Bromoform	BSP	REC	94	%	70-130
V1C7851-BS	74-83-9	Bromomethane	BSP	REC	85	%	70-130
V1C7851-BS	78-93-3	2-Butanone (MEK)	BSP	REC	100	%	70-130
V1C7851-BS	104-51-8	n-Butylbenzene	BSP	REC	91	%	70-130
V1C7851-BS	135-98-8	sec-Butylbenzene	BSP	REC	88	%	70-130
V1C7851-BS	98-06-6	tert-Butylbenzene	BSP	REC	88	%	70-130
V1C7851-BS	75-15-0	Carbon disulfide	BSP	REC	95	%	70-130
V1C7851-BS	56-23-5	Carbon tetrachloride	BSP	REC	96	%	70-130
V1C7851-BS	108-90-7	Chlorobenzene	BSP	REC	90	%	70-130
V1C7851-BS	75-00-3	Chloroethane	BSP	REC	95	%	70-130
V1C7851-BS	67-66-3	Chloroform	BSP	REC	94	%	70-130
V1C7851-BS	74-87-3	Chloromethane	BSP	REC	91	%	70-130
V1C7851-BS	95-49-8	o-Chlorotoluene	BSP	REC	90	%	70-130
V1C7851-BS	106-43-4	p-Chlorotoluene	BSP	REC	87	%	70-130
V1C7851-BS	96-12-8	1,2-Dibromo-3-chloropropane	BSP	REC	96	%	70-130
V1C7851-BS	124-48-1	Dibromochloromethane	BSP	REC	96	%	70-130
V1C7851-BS	106-93-4	1,2-Dibromoethane	BSP	REC	98	%	70-130

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V1C7851-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	91	%	70-130
V1C7851-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	92	%	70-130
V1C7851-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	88	%	70-130
V1C7851-BS	110-57-6	Trans-1,4-Dichloro-2-Butene	BSP	REC	97	%	70-130
V1C7851-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	83	%	70-130
V1C7851-BS	75-34-3	1,1-Dichloroethane	BSP	REC	103	%	70-130
V1C7851-BS	107-06-2	1,2-Dichloroethane	BSP	REC	93	%	70-130
V1C7851-BS	75-35-4	1,1-Dichloroethene	BSP	REC	90	%	70-130
V1C7851-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	93	%	70-130
V1C7851-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	91	%	70-130
V1C7851-BS	78-87-5	1,2-Dichloropropane	BSP	REC	99	%	70-130
V1C7851-BS	142-28-9	1,3-Dichloropropane	BSP	REC	97	%	70-130
V1C7851-BS	594-20-7	2,2-Dichloropropane	BSP	REC	99	%	70-130
V1C7851-BS	563-58-6	1,1-Dichloropropene	BSP	REC	100	%	70-130
V1C7851-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	97	%	70-130
V1C7851-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	103	%	70-130
V1C7851-BS	100-41-4	Ethylbenzene	BSP	REC	88	%	70-130
V1C7851-BS	76-13-1	Freon 113	BSP	REC	88	%	70-130
V1C7851-BS	87-68-3	Hexachlorobutadiene	BSP	REC	94	%	70-130
V1C7851-BS	591-78-6	2-Hexanone	BSP	REC	96	%	70-130
V1C7851-BS	98-82-8	Isopropylbenzene	BSP	REC	89	%	70-130
V1C7851-BS	99-87-6	p-Isopropyltoluene	BSP	REC	89	%	70-130
V1C7851-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	106	%	70-130
V1C7851-BS	108-10-1	4-Methyl-2-pentanone(MIBK)	BSP	REC	91	%	70-130
V1C7851-BS	74-95-3	Methylene bromide	BSP	REC	95	%	70-130
V1C7851-BS	75-09-2	Methylene chloride	BSP	REC	97	%	70-130
V1C7851-BS	91-20-3	Naphthalene	BSP	REC	93	%	70-130
V1C7851-BS	103-65-1	n-Propylbenzene	BSP	REC	87	%	70-130
V1C7851-BS	100-42-5	Styrene	BSP	REC	89	%	70-130
V1C7851-BS	630-20-6	1,1,1,2-Tetrachloroethane	BSP	REC	92	%	70-130
V1C7851-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	90	%	70-130
V1C7851-BS	127-18-4	Tetrachloroethene	BSP	REC	90	%	70-130
V1C7851-BS	109-99-9	Tetrahydrofuran	BSP	REC	98	%	70-130
V1C7851-BS	108-88-3	Toluene	BSP	REC	88	%	70-130
V1C7851-BS	87-61-6	1,2,3-Trichlorobenzene	BSP	REC	98	%	70-130
V1C7851-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	98	%	70-130
V1C7851-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	97	%	70-130
V1C7851-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	98	%	70-130
V1C7851-BS	79-01-6	Trichloroethene	BSP	REC	93	%	70-130
V1C7851-BS	75-69-4	Trichlorofluoromethane	BSP	REC	91	%	70-130
V1C7851-BS	96-18-4	1,2,3-Trichloropropane	BSP	REC	96	%	70-130
V1C7851-BS	95-63-6	1,2,4-Trimethylbenzene	BSP	REC	91	%	70-130
V1C7851-BS	108-67-8	1,3,5-Trimethylbenzene	BSP	REC	89	%	70-130
V1C7851-BS	75-01-4	Vinyl chloride	BSP	REC	93	%	70-130
V1C7851-BS		m,p-Xylene	BSP	REC	88	%	70-130

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V1C7851-BS	95-47-6	o-Xylene	BSP	REC	90	%	70-130
V1C7851-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	106	%	70-130
V1C7851-BS	2037-26-5	Toluene-D8	BSP	SURR	102	%	70-130
V1C7851-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	101	%	70-130
V1C7851-MB	1868-53-7	Dibromofluoromethane	MB	SURR	106	%	70-130
V1C7851-MB	2037-26-5	Toluene-D8	MB	SURR	103	%	70-130
V1C7851-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	100	%	70-130
JD29693-11	1868-53-7	Dibromofluoromethane	SAMP	SURR	108	%	70-130
JD29693-11	2037-26-5	Toluene-D8	SAMP	SURR	113	%	70-130
JD29693-11	460-00-4	4-Bromofluorobenzene	SAMP	SURR	127	%	70-130
JD29693-13	1868-53-7	Dibromofluoromethane	SAMP	SURR	108	%	70-130
JD29693-13	2037-26-5	Toluene-D8	SAMP	SURR	101	%	70-130
JD29693-13	460-00-4	4-Bromofluorobenzene	SAMP	SURR	101	%	70-130
JD29693-15	1868-53-7	Dibromofluoromethane	SAMP	SURR	110	%	70-130
JD29693-15	2037-26-5	Toluene-D8	SAMP	SURR	110	%	70-130
JD29693-15	460-00-4	4-Bromofluorobenzene	SAMP	SURR	115	%	70-130
JD29693-16	1868-53-7	Dibromofluoromethane	SAMP	SURR	112	%	70-130
JD29693-16	2037-26-5	Toluene-D8	SAMP	SURR	106	%	70-130
JD29693-16	460-00-4	4-Bromofluorobenzene	SAMP	SURR	109	%	70-130
JD29693-17	1868-53-7	Dibromofluoromethane	SAMP	SURR	110	%	70-130
JD29693-17	2037-26-5	Toluene-D8	SAMP	SURR	105	%	70-130
JD29693-17	460-00-4	4-Bromofluorobenzene	SAMP	SURR	106	%	70-130
JD29693-20	1868-53-7	Dibromofluoromethane	SAMP	SURR	110	%	70-130
JD29693-20	2037-26-5	Toluene-D8	SAMP	SURR	105	%	70-130
JD29693-20	460-00-4	4-Bromofluorobenzene	SAMP	SURR	100	%	70-130
JD29693-21	1868-53-7	Dibromofluoromethane	SAMP	SURR	108	%	70-130
JD29693-21	2037-26-5	Toluene-D8	SAMP	SURR	105	%	70-130
JD29693-21	460-00-4	4-Bromofluorobenzene	SAMP	SURR	105	%	70-130
JD29693-22	1868-53-7	Dibromofluoromethane	SAMP	SURR	108	%	70-130
JD29693-22	2037-26-5	Toluene-D8	SAMP	SURR	104	%	70-130
JD29693-22	460-00-4	4-Bromofluorobenzene	SAMP	SURR	102	%	70-130
V1C7853	SW846 8260D						
V1C7853-BS	67-64-1	Acetone	BSP	REC	93	%	70-130
V1C7853-BS	107-13-1	Acrylonitrile	BSP	REC	100	%	70-130
V1C7853-BS	71-43-2	Benzene	BSP	REC	96	%	70-130
V1C7853-BS	108-86-1	Bromobenzene	BSP	REC	94	%	70-130
V1C7853-BS	75-27-4	Bromodichloromethane	BSP	REC	100	%	70-130
V1C7853-BS	75-25-2	Bromoform	BSP	REC	94	%	70-130
V1C7853-BS	74-83-9	Bromomethane	BSP	REC	82	%	70-130
V1C7853-BS	78-93-3	2-Butanone (MEK)	BSP	REC	102	%	70-130
V1C7853-BS	104-51-8	n-Butylbenzene	BSP	REC	95	%	70-130
V1C7853-BS	135-98-8	sec-Butylbenzene	BSP	REC	92	%	70-130
V1C7853-BS	98-06-6	tert-Butylbenzene	BSP	REC	92	%	70-130

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V1C7853-BS	75-15-0	Carbon disulfide	BSP	REC	99	%	70-130
V1C7853-BS	56-23-5	Carbon tetrachloride	BSP	REC	102	%	70-130
V1C7853-BS	108-90-7	Chlorobenzene	BSP	REC	93	%	70-130
V1C7853-BS	75-00-3	Chloroethane	BSP	REC	96	%	70-130
V1C7853-BS	67-66-3	Chloroform	BSP	REC	98	%	70-130
V1C7853-BS	74-87-3	Chloromethane	BSP	REC	85	%	70-130
V1C7853-BS	95-49-8	o-Chlorotoluene	BSP	REC	93	%	70-130
V1C7853-BS	106-43-4	p-Chlorotoluene	BSP	REC	89	%	70-130
V1C7853-BS	96-12-8	1,2-Dibromo-3-chloropropane	BSP	REC	97	%	70-130
V1C7853-BS	124-48-1	Dibromochloromethane	BSP	REC	98	%	70-130
V1C7853-BS	106-93-4	1,2-Dibromoethane	BSP	REC	97	%	70-130
V1C7853-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	94	%	70-130
V1C7853-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	95	%	70-130
V1C7853-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	90	%	70-130
V1C7853-BS	110-57-6	Trans-1,4-Dichloro-2-Butene	BSP	REC	95	%	70-130
V1C7853-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	64	%	70-130
V1C7853-BS	75-34-3	1,1-Dichloroethane	BSP	REC	106	%	70-130
V1C7853-BS	107-06-2	1,2-Dichloroethane	BSP	REC	95	%	70-130
V1C7853-BS	75-35-4	1,1-Dichloroethene	BSP	REC	95	%	70-130
V1C7853-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	97	%	70-130
V1C7853-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	96	%	70-130
V1C7853-BS	78-87-5	1,2-Dichloropropane	BSP	REC	102	%	70-130
V1C7853-BS	142-28-9	1,3-Dichloropropane	BSP	REC	97	%	70-130
V1C7853-BS	594-20-7	2,2-Dichloropropane	BSP	REC	101	%	70-130
V1C7853-BS	563-58-6	1,1-Dichloropropene	BSP	REC	104	%	70-130
V1C7853-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	100	%	70-130
V1C7853-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	104	%	70-130
V1C7853-BS	100-41-4	Ethylbenzene	BSP	REC	90	%	70-130
V1C7853-BS	76-13-1	Freon 113	BSP	REC	93	%	70-130
V1C7853-BS	87-68-3	Hexachlorobutadiene	BSP	REC	97	%	70-130
V1C7853-BS	591-78-6	2-Hexanone	BSP	REC	97	%	70-130
V1C7853-BS	98-82-8	Isopropylbenzene	BSP	REC	91	%	70-130
V1C7853-BS	99-87-6	p-Isopropyltoluene	BSP	REC	93	%	70-130
V1C7853-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	105	%	70-130
V1C7853-BS	108-10-1	4-Methyl-2-pentanone(MIBK)	BSP	REC	91	%	70-130
V1C7853-BS	74-95-3	Methylene bromide	BSP	REC	97	%	70-130
V1C7853-BS	75-09-2	Methylene chloride	BSP	REC	98	%	70-130
V1C7853-BS	91-20-3	Naphthalene	BSP	REC	92	%	70-130
V1C7853-BS	103-65-1	n-Propylbenzene	BSP	REC	90	%	70-130
V1C7853-BS	100-42-5	Styrene	BSP	REC	92	%	70-130
V1C7853-BS	630-20-6	1,1,1,2-Tetrachloroethane	BSP	REC	94	%	70-130
V1C7853-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	92	%	70-130
V1C7853-BS	127-18-4	Tetrachloroethene	BSP	REC	93	%	70-130
V1C7853-BS	109-99-9	Tetrahydrofuran	BSP	REC	95	%	70-130
V1C7853-BS	108-88-3	Toluene	BSP	REC	92	%	70-130

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V1C7853-BS	87-61-6	1,2,3-Trichlorobenzene	BSP	REC	98	%	70-130
V1C7853-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	98	%	70-130
V1C7853-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	102	%	70-130
V1C7853-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	99	%	70-130
V1C7853-BS	79-01-6	Trichloroethene	BSP	REC	98	%	70-130
V1C7853-BS	75-69-4	Trichlorofluoromethane	BSP	REC	92	%	70-130
V1C7853-BS	96-18-4	1,2,3-Trichloropropane	BSP	REC	93	%	70-130
V1C7853-BS	95-63-6	1,2,4-Trimethylbenzene	BSP	REC	94	%	70-130
V1C7853-BS	108-67-8	1,3,5-Trimethylbenzene	BSP	REC	93	%	70-130
V1C7853-BS	75-01-4	Vinyl chloride	BSP	REC	91	%	70-130
V1C7853-BS		m,p-Xylene	BSP	REC	90	%	70-130
V1C7853-BS	95-47-6	o-Xylene	BSP	REC	92	%	70-130
V1C7853-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	105	%	70-130
V1C7853-BS	2037-26-5	Toluene-D8	BSP	SURR	101	%	70-130
V1C7853-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	102	%	70-130
JD29693-19MS	67-64-1	Acetone	MS	REC	76	%	70-130
JD29693-19MS	107-13-1	Acrylonitrile	MS	REC	81	%	70-130
JD29693-19MS	71-43-2	Benzene	MS	REC	86	%	70-130
JD29693-19MS	108-86-1	Bromobenzene	MS	REC	66	%	70-130
JD29693-19MS	75-27-4	Bromodichloromethane	MS	REC	89	%	70-130
JD29693-19MS	75-25-2	Bromoform	MS	REC	76	%	70-130
JD29693-19MS	74-83-9	Bromomethane	MS	REC	74	%	70-130
JD29693-19MS	78-93-3	2-Butanone (MEK)	MS	REC	84	%	70-130
JD29693-19MS	104-51-8	n-Butylbenzene	MS	REC	53	%	70-130
JD29693-19MS	135-98-8	sec-Butylbenzene	MS	REC	72	%	70-130
JD29693-19MS	98-06-6	tert-Butylbenzene	MS	REC	84	%	70-130
JD29693-19MS	75-15-0	Carbon disulfide	MS	REC	66	%	70-130
JD29693-19MS	56-23-5	Carbon tetrachloride	MS	REC	96	%	70-130
JD29693-19MS	108-90-7	Chlorobenzene	MS	REC	67	%	70-130
JD29693-19MS	75-00-3	Chloroethane	MS	REC	88	%	70-130
JD29693-19MS	67-66-3	Chloroform	MS	REC	90	%	70-130
JD29693-19MS	74-87-3	Chloromethane	MS	REC	79	%	70-130
JD29693-19MS	95-49-8	o-Chlorotoluene	MS	REC	72	%	70-130
JD29693-19MS	106-43-4	p-Chlorotoluene	MS	REC	57	%	70-130
JD29693-19MS	96-12-8	1,2-Dibromo-3-chloropropane	MS	REC	79	%	70-130
JD29693-19MS	124-48-1	Dibromochloromethane	MS	REC	84	%	70-130
JD29693-19MS	106-93-4	1,2-Dibromoethane	MS	REC	75	%	70-130
JD29693-19MS	95-50-1	1,2-Dichlorobenzene	MS	REC	59	%	70-130
JD29693-19MS	541-73-1	1,3-Dichlorobenzene	MS	REC	55	%	70-130
JD29693-19MS	106-46-7	1,4-Dichlorobenzene	MS	REC	50	%	70-130
JD29693-19MS	110-57-6	Trans-1,4-Dichloro-2-Butene	MS	REC	60	%	70-130
JD29693-19MS	75-71-8	Dichlorodifluoromethane	MS	REC	60	%	70-130
JD29693-19MS	75-34-3	1,1-Dichloroethane	MS	REC	101	%	70-130
JD29693-19MS	107-06-2	1,2-Dichloroethane	MS	REC	84	%	70-130
JD29693-19MS	75-35-4	1,1-Dichloroethene	MS	REC	81	%	70-130

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD29693-19MS	156-59-2	cis-1,2-Dichloroethene	MS	REC	77	%	70-130
JD29693-19MS	156-60-5	trans-1,2-Dichloroethene	MS	REC	72	%	70-130
JD29693-19MS	78-87-5	1,2-Dichloropropane	MS	REC	95	%	70-130
JD29693-19MS	142-28-9	1,3-Dichloropropane	MS	REC	83	%	70-130
JD29693-19MS	594-20-7	2,2-Dichloropropane	MS	REC	90	%	70-130
JD29693-19MS	563-58-6	1,1-Dichloropropene	MS	REC	82	%	70-130
JD29693-19MS	10061-01-5	cis-1,3-Dichloropropene	MS	REC	75	%	70-130
JD29693-19MS	10061-02-6	trans-1,3-Dichloropropene	MS	REC	70	%	70-130
JD29693-19MS	100-41-4	Ethylbenzene	MS	REC	72	%	70-130
JD29693-19MS	76-13-1	Freon 113	MS	REC	88	%	70-130
JD29693-19MS	87-68-3	Hexachlorobutadiene	MS	REC	60	%	70-130
JD29693-19MS	591-78-6	2-Hexanone	MS	REC	79	%	70-130
JD29693-19MS	98-82-8	Isopropylbenzene	MS	REC	75	%	70-130
JD29693-19MS	99-87-6	p-Isopropyltoluene	MS	REC	71	%	70-130
JD29693-19MS	1634-04-4	Methyl Tert Butyl Ether	MS	REC	102	%	70-130
JD29693-19MS	108-10-1	4-Methyl-2-pentanone(MIBK)	MS	REC	81	%	70-130
JD29693-19MS	74-95-3	Methylene bromide	MS	REC	76	%	70-130
JD29693-19MS	75-09-2	Methylene chloride	MS	REC	88	%	70-130
JD29693-19MS	91-20-3	Naphthalene	MS	REC	37	%	70-130
JD29693-19MS	103-65-1	n-Propylbenzene	MS	REC	68	%	70-130
JD29693-19MS	100-42-5	Styrene	MS	REC	62	%	70-130
JD29693-19MS	630-20-6	1,1,1,2-Tetrachloroethane	MS	REC	89	%	70-130
JD29693-19MS	79-34-5	1,1,2,2-Tetrachloroethane	MS	REC	82	%	70-130
JD29693-19MS	127-18-4	Tetrachloroethene	MS	REC	74	%	70-130
JD29693-19MS	109-99-9	Tetrahydrofuran	MS	REC	83	%	70-130
JD29693-19MS	108-88-3	Toluene	MS	REC	77	%	70-130
JD29693-19MS	87-61-6	1,2,3-Trichlorobenzene	MS	REC	39	%	70-130
JD29693-19MS	120-82-1	1,2,4-Trichlorobenzene	MS	REC	36	%	70-130
JD29693-19MS	71-55-6	1,1,1-Trichloroethane	MS	REC	98	%	70-130
JD29693-19MS	79-00-5	1,1,2-Trichloroethane	MS	REC	88	%	70-130
JD29693-19MS	79-01-6	Trichloroethene	MS	REC	76	%	70-130
JD29693-19MS	75-69-4	Trichlorofluoromethane	MS	REC	88	%	70-130
JD29693-19MS	96-18-4	1,2,3-Trichloropropane	MS	REC	85	%	70-130
JD29693-19MS	95-63-6	1,2,4-Trimethylbenzene	MS	REC	74	%	70-130
JD29693-19MS	108-67-8	1,3,5-Trimethylbenzene	MS	REC	79	%	70-130
JD29693-19MS	75-01-4	Vinyl chloride	MS	REC	78	%	70-130
JD29693-19MS		m,p-Xylene	MS	REC	71	%	70-130
JD29693-19MS	95-47-6	o-Xylene	MS	REC	77	%	70-130
JD29693-19MS	1868-53-7	Dibromofluoromethane	MS	SURR	108	%	70-130
JD29693-19MS	2037-26-5	Toluene-D8	MS	SURR	104	%	70-130
JD29693-19MS	460-00-4	4-Bromofluorobenzene	MS	SURR	106	%	70-130
JD29693-19MSD	67-64-1	Acetone	MSD	REC	72	%	70-130
JD29693-19MSD	67-64-1	Acetone	MSD	RPD	6	%	30
JD29693-19MSD	107-13-1	Acrylonitrile	MSD	REC	76	%	70-130
JD29693-19MSD	107-13-1	Acrylonitrile	MSD	RPD	7	%	30

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD29693-19MSD	71-43-2	Benzene	MSD	REC	82	%	70-130
JD29693-19MSD	71-43-2	Benzene	MSD	RPD	5	%	30
JD29693-19MSD	108-86-1	Bromobenzene	MSD	REC	62	%	70-130
JD29693-19MSD	108-86-1	Bromobenzene	MSD	RPD	6	%	30
JD29693-19MSD	75-27-4	Bromodichloromethane	MSD	REC	84	%	70-130
JD29693-19MSD	75-27-4	Bromodichloromethane	MSD	RPD	6	%	30
JD29693-19MSD	75-25-2	Bromoform	MSD	REC	72	%	70-130
JD29693-19MSD	75-25-2	Bromoform	MSD	RPD	5	%	30
JD29693-19MSD	74-83-9	Bromomethane	MSD	REC	72	%	70-130
JD29693-19MSD	74-83-9	Bromomethane	MSD	RPD	3	%	30
JD29693-19MSD	78-93-3	2-Butanone (MEK)	MSD	REC	81	%	70-130
JD29693-19MSD	78-93-3	2-Butanone (MEK)	MSD	RPD	4	%	30
JD29693-19MSD	104-51-8	n-Butylbenzene	MSD	REC	49	%	70-130
JD29693-19MSD	104-51-8	n-Butylbenzene	MSD	RPD	8	%	30
JD29693-19MSD	135-98-8	sec-Butylbenzene	MSD	REC	68	%	70-130
JD29693-19MSD	135-98-8	sec-Butylbenzene	MSD	RPD	5	%	30
JD29693-19MSD	98-06-6	tert-Butylbenzene	MSD	REC	79	%	70-130
JD29693-19MSD	98-06-6	tert-Butylbenzene	MSD	RPD	5	%	30
JD29693-19MSD	75-15-0	Carbon disulfide	MSD	REC	61	%	70-130
JD29693-19MSD	75-15-0	Carbon disulfide	MSD	RPD	8	%	30
JD29693-19MSD	56-23-5	Carbon tetrachloride	MSD	REC	90	%	70-130
JD29693-19MSD	56-23-5	Carbon tetrachloride	MSD	RPD	6	%	30
JD29693-19MSD	108-90-7	Chlorobenzene	MSD	REC	63	%	70-130
JD29693-19MSD	108-90-7	Chlorobenzene	MSD	RPD	6	%	30
JD29693-19MSD	75-00-3	Chloroethane	MSD	REC	83	%	70-130
JD29693-19MSD	75-00-3	Chloroethane	MSD	RPD	6	%	30
JD29693-19MSD	67-66-3	Chloroform	MSD	REC	85	%	70-130
JD29693-19MSD	67-66-3	Chloroform	MSD	RPD	6	%	30
JD29693-19MSD	74-87-3	Chloromethane	MSD	REC	77	%	70-130
JD29693-19MSD	74-87-3	Chloromethane	MSD	RPD	2	%	30
JD29693-19MSD	95-49-8	o-Chlorotoluene	MSD	REC	67	%	70-130
JD29693-19MSD	95-49-8	o-Chlorotoluene	MSD	RPD	8	%	30
JD29693-19MSD	106-43-4	p-Chlorotoluene	MSD	REC	53	%	70-130
JD29693-19MSD	106-43-4	p-Chlorotoluene	MSD	RPD	8	%	30
JD29693-19MSD	96-12-8	1,2-Dibromo-3-chloropropane	MSD	REC	73	%	70-130
JD29693-19MSD	96-12-8	1,2-Dibromo-3-chloropropane	MSD	RPD	8	%	30
JD29693-19MSD	124-48-1	Dibromochloromethane	MSD	REC	79	%	70-130
JD29693-19MSD	124-48-1	Dibromochloromethane	MSD	RPD	6	%	30
JD29693-19MSD	106-93-4	1,2-Dibromoethane	MSD	REC	72	%	70-130
JD29693-19MSD	106-93-4	1,2-Dibromoethane	MSD	RPD	5	%	30
JD29693-19MSD	95-50-1	1,2-Dichlorobenzene	MSD	REC	54	%	70-130
JD29693-19MSD	95-50-1	1,2-Dichlorobenzene	MSD	RPD	9	%	30
JD29693-19MSD	541-73-1	1,3-Dichlorobenzene	MSD	REC	50	%	70-130
JD29693-19MSD	541-73-1	1,3-Dichlorobenzene	MSD	RPD	10	%	30
JD29693-19MSD	106-46-7	1,4-Dichlorobenzene	MSD	REC	46	%	70-130

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD29693-19MSD	106-46-7	1,4-Dichlorobenzene	MSD	RPD	9	%	30
JD29693-19MSD	110-57-6	Trans-1,4-Dichloro-2-Butene	MSD	REC	59	%	70-130
JD29693-19MSD	110-57-6	Trans-1,4-Dichloro-2-Butene	MSD	RPD	2	%	30
JD29693-19MSD	75-71-8	Dichlorodifluoromethane	MSD	REC	58	%	70-130
JD29693-19MSD	75-71-8	Dichlorodifluoromethane	MSD	RPD	2	%	30
JD29693-19MSD	75-34-3	1,1-Dichloroethane	MSD	REC	95	%	70-130
JD29693-19MSD	75-34-3	1,1-Dichloroethane	MSD	RPD	6	%	30
JD29693-19MSD	107-06-2	1,2-Dichloroethane	MSD	REC	80	%	70-130
JD29693-19MSD	107-06-2	1,2-Dichloroethane	MSD	RPD	5	%	30
JD29693-19MSD	75-35-4	1,1-Dichloroethene	MSD	REC	76	%	70-130
JD29693-19MSD	75-35-4	1,1-Dichloroethene	MSD	RPD	6	%	30
JD29693-19MSD	156-59-2	cis-1,2-Dichloroethene	MSD	REC	74	%	70-130
JD29693-19MSD	156-59-2	cis-1,2-Dichloroethene	MSD	RPD	4	%	30
JD29693-19MSD	156-60-5	trans-1,2-Dichloroethene	MSD	REC	68	%	70-130
JD29693-19MSD	156-60-5	trans-1,2-Dichloroethene	MSD	RPD	6	%	30
JD29693-19MSD	78-87-5	1,2-Dichloropropane	MSD	REC	90	%	70-130
JD29693-19MSD	78-87-5	1,2-Dichloropropane	MSD	RPD	6	%	30
JD29693-19MSD	142-28-9	1,3-Dichloropropane	MSD	REC	80	%	70-130
JD29693-19MSD	142-28-9	1,3-Dichloropropane	MSD	RPD	3	%	30
JD29693-19MSD	594-20-7	2,2-Dichloropropane	MSD	REC	85	%	70-130
JD29693-19MSD	594-20-7	2,2-Dichloropropane	MSD	RPD	5	%	30
JD29693-19MSD	563-58-6	1,1-Dichloropropene	MSD	REC	76	%	70-130
JD29693-19MSD	563-58-6	1,1-Dichloropropene	MSD	RPD	7	%	30
JD29693-19MSD	10061-01-5	cis-1,3-Dichloropropene	MSD	REC	71	%	70-130
JD29693-19MSD	10061-01-5	cis-1,3-Dichloropropene	MSD	RPD	6	%	30
JD29693-19MSD	10061-02-6	trans-1,3-Dichloropropene	MSD	REC	68	%	70-130
JD29693-19MSD	10061-02-6	trans-1,3-Dichloropropene	MSD	RPD	2	%	30
JD29693-19MSD	100-41-4	Ethylbenzene	MSD	REC	68	%	70-130
JD29693-19MSD	100-41-4	Ethylbenzene	MSD	RPD	6	%	30
JD29693-19MSD	76-13-1	Freon 113	MSD	REC	84	%	70-130
JD29693-19MSD	76-13-1	Freon 113	MSD	RPD	4	%	30
JD29693-19MSD	87-68-3	Hexachlorobutadiene	MSD	REC	54	%	70-130
JD29693-19MSD	87-68-3	Hexachlorobutadiene	MSD	RPD	11	%	30
JD29693-19MSD	591-78-6	2-Hexanone	MSD	REC	74	%	70-130
JD29693-19MSD	591-78-6	2-Hexanone	MSD	RPD	6	%	30
JD29693-19MSD	98-82-8	Isopropylbenzene	MSD	REC	71	%	70-130
JD29693-19MSD	98-82-8	Isopropylbenzene	MSD	RPD	6	%	30
JD29693-19MSD	99-87-6	p-Isopropyltoluene	MSD	REC	66	%	70-130
JD29693-19MSD	99-87-6	p-Isopropyltoluene	MSD	RPD	7	%	30
JD29693-19MSD	1634-04-4	Methyl Tert Butyl Ether	MSD	REC	101	%	70-130
JD29693-19MSD	1634-04-4	Methyl Tert Butyl Ether	MSD	RPD	1	%	30
JD29693-19MSD	108-10-1	4-Methyl-2-pentanone(MIBK)	MSD	REC	76	%	70-130
JD29693-19MSD	108-10-1	4-Methyl-2-pentanone(MIBK)	MSD	RPD	6	%	30
JD29693-19MSD	74-95-3	Methylene bromide	MSD	REC	73	%	70-130
JD29693-19MSD	74-95-3	Methylene bromide	MSD	RPD	5	%	30

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD29693-19MSD	75-09-2	Methylene chloride	MSD	REC	85	%	70-130
JD29693-19MSD	75-09-2	Methylene chloride	MSD	RPD	4	%	30
JD29693-19MSD	91-20-3	Naphthalene	MSD	REC	32	%	70-130
JD29693-19MSD	91-20-3	Naphthalene	MSD	RPD	16	%	30
JD29693-19MSD	103-65-1	n-Propylbenzene	MSD	REC	64	%	70-130
JD29693-19MSD	103-65-1	n-Propylbenzene	MSD	RPD	6	%	30
JD29693-19MSD	100-42-5	Styrene	MSD	REC	57	%	70-130
JD29693-19MSD	100-42-5	Styrene	MSD	RPD	9	%	30
JD29693-19MSD	630-20-6	1,1,1,2-Tetrachloroethane	MSD	REC	85	%	70-130
JD29693-19MSD	630-20-6	1,1,1,2-Tetrachloroethane	MSD	RPD	5	%	30
JD29693-19MSD	79-34-5	1,1,2,2-Tetrachloroethane	MSD	REC	79	%	70-130
JD29693-19MSD	79-34-5	1,1,2,2-Tetrachloroethane	MSD	RPD	4	%	30
JD29693-19MSD	127-18-4	Tetrachloroethene	MSD	REC	68	%	70-130
JD29693-19MSD	127-18-4	Tetrachloroethene	MSD	RPD	7	%	30
JD29693-19MSD	109-99-9	Tetrahydrofuran	MSD	REC	79	%	70-130
JD29693-19MSD	109-99-9	Tetrahydrofuran	MSD	RPD	5	%	30
JD29693-19MSD	108-88-3	Toluene	MSD	REC	73	%	70-130
JD29693-19MSD	108-88-3	Toluene	MSD	RPD	6	%	30
JD29693-19MSD	87-61-6	1,2,3-Trichlorobenzene	MSD	REC	33	%	70-130
JD29693-19MSD	87-61-6	1,2,3-Trichlorobenzene	MSD	RPD	15	%	30
JD29693-19MSD	120-82-1	1,2,4-Trichlorobenzene	MSD	REC	32	%	70-130
JD29693-19MSD	120-82-1	1,2,4-Trichlorobenzene	MSD	RPD	13	%	30
JD29693-19MSD	71-55-6	1,1,1-Trichloroethane	MSD	REC	93	%	70-130
JD29693-19MSD	71-55-6	1,1,1-Trichloroethane	MSD	RPD	6	%	30
JD29693-19MSD	79-00-5	1,1,2-Trichloroethane	MSD	REC	83	%	70-130
JD29693-19MSD	79-00-5	1,1,2-Trichloroethane	MSD	RPD	5	%	30
JD29693-19MSD	79-01-6	Trichloroethene	MSD	REC	70	%	70-130
JD29693-19MSD	79-01-6	Trichloroethene	MSD	RPD	9	%	30
JD29693-19MSD	75-69-4	Trichlorofluoromethane	MSD	REC	84	%	70-130
JD29693-19MSD	75-69-4	Trichlorofluoromethane	MSD	RPD	4	%	30
JD29693-19MSD	96-18-4	1,2,3-Trichloropropane	MSD	REC	83	%	70-130
JD29693-19MSD	96-18-4	1,2,3-Trichloropropane	MSD	RPD	3	%	30
JD29693-19MSD	95-63-6	1,2,4-Trimethylbenzene	MSD	REC	70	%	70-130
JD29693-19MSD	95-63-6	1,2,4-Trimethylbenzene	MSD	RPD	5	%	30
JD29693-19MSD	108-67-8	1,3,5-Trimethylbenzene	MSD	REC	75	%	70-130
JD29693-19MSD	108-67-8	1,3,5-Trimethylbenzene	MSD	RPD	6	%	30
JD29693-19MSD	75-01-4	Vinyl chloride	MSD	REC	75	%	70-130
JD29693-19MSD	75-01-4	Vinyl chloride	MSD	RPD	4	%	30
JD29693-19MSD		m,p-Xylene	MSD	REC	66	%	70-130
JD29693-19MSD		m,p-Xylene	MSD	RPD	7	%	30
JD29693-19MSD	95-47-6	o-Xylene	MSD	REC	72	%	70-130
JD29693-19MSD	95-47-6	o-Xylene	MSD	RPD	6	%	30
JD29693-19MSD	1868-53-7	Dibromofluoromethane	MSD	SURR	107	%	70-130
JD29693-19MSD	2037-26-5	Toluene-D8	MSD	SURR	104	%	70-130
JD29693-19MSD	460-00-4	4-Bromofluorobenzene	MSD	SURR	107	%	70-130

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V1C7853-MB	1868-53-7	Dibromofluoromethane	MB	SURR	104	%	70-130
V1C7853-MB	2037-26-5	Toluene-D8	MB	SURR	103	%	70-130
V1C7853-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	101	%	70-130
JD29693-19	1868-53-7	Dibromofluoromethane	SAMP	SURR	108	%	70-130
JD29693-19	2037-26-5	Toluene-D8	SAMP	SURR	107	%	70-130
JD29693-19	460-00-4	4-Bromofluorobenzene	SAMP	SURR	109	%	70-130
V1C7854	SW846 8260D						
V1C7854-BS	67-64-1	Acetone	BSP	REC	92	%	70-130
V1C7854-BS	107-13-1	Acrylonitrile	BSP	REC	90	%	70-130
V1C7854-BS	71-43-2	Benzene	BSP	REC	93	%	70-130
V1C7854-BS	108-86-1	Bromobenzene	BSP	REC	92	%	70-130
V1C7854-BS	75-27-4	Bromodichloromethane	BSP	REC	97	%	70-130
V1C7854-BS	75-25-2	Bromoform	BSP	REC	97	%	70-130
V1C7854-BS	74-83-9	Bromomethane	BSP	REC	81	%	70-130
V1C7854-BS	78-93-3	2-Butanone (MEK)	BSP	REC	100	%	70-130
V1C7854-BS	104-51-8	n-Butylbenzene	BSP	REC	92	%	70-130
V1C7854-BS	135-98-8	sec-Butylbenzene	BSP	REC	89	%	70-130
V1C7854-BS	98-06-6	tert-Butylbenzene	BSP	REC	90	%	70-130
V1C7854-BS	75-15-0	Carbon disulfide	BSP	REC	93	%	70-130
V1C7854-BS	56-23-5	Carbon tetrachloride	BSP	REC	99	%	70-130
V1C7854-BS	108-90-7	Chlorobenzene	BSP	REC	92	%	70-130
V1C7854-BS	75-00-3	Chloroethane	BSP	REC	94	%	70-130
V1C7854-BS	67-66-3	Chloroform	BSP	REC	95	%	70-130
V1C7854-BS	74-87-3	Chloromethane	BSP	REC	84	%	70-130
V1C7854-BS	95-49-8	o-Chlorotoluene	BSP	REC	92	%	70-130
V1C7854-BS	106-43-4	p-Chlorotoluene	BSP	REC	87	%	70-130
V1C7854-BS	96-12-8	1,2-Dibromo-3-chloropropane	BSP	REC	98	%	70-130
V1C7854-BS	124-48-1	Dibromochloromethane	BSP	REC	99	%	70-130
V1C7854-BS	106-93-4	1,2-Dibromoethane	BSP	REC	100	%	70-130
V1C7854-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	93	%	70-130
V1C7854-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	94	%	70-130
V1C7854-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	89	%	70-130
V1C7854-BS	110-57-6	Trans-1,4-Dichloro-2-Butene	BSP	REC	97	%	70-130
V1C7854-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	73	%	70-130
V1C7854-BS	75-34-3	1,1-Dichloroethane	BSP	REC	103	%	70-130
V1C7854-BS	107-06-2	1,2-Dichloroethane	BSP	REC	95	%	70-130
V1C7854-BS	75-35-4	1,1-Dichloroethene	BSP	REC	90	%	70-130
V1C7854-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	93	%	70-130
V1C7854-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	92	%	70-130
V1C7854-BS	78-87-5	1,2-Dichloropropane	BSP	REC	98	%	70-130
V1C7854-BS	142-28-9	1,3-Dichloropropane	BSP	REC	98	%	70-130
V1C7854-BS	594-20-7	2,2-Dichloropropane	BSP	REC	100	%	70-130
V1C7854-BS	563-58-6	1,1-Dichloropropene	BSP	REC	101	%	70-130

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V1C7854-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	97	%	70-130
V1C7854-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	104	%	70-130
V1C7854-BS	100-41-4	Ethylbenzene	BSP	REC	88	%	70-130
V1C7854-BS	76-13-1	Freon 113	BSP	REC	94	%	70-130
V1C7854-BS	87-68-3	Hexachlorobutadiene	BSP	REC	95	%	70-130
V1C7854-BS	591-78-6	2-Hexanone	BSP	REC	99	%	70-130
V1C7854-BS	98-82-8	Isopropylbenzene	BSP	REC	89	%	70-130
V1C7854-BS	99-87-6	p-Isopropyltoluene	BSP	REC	91	%	70-130
V1C7854-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	104	%	70-130
V1C7854-BS	108-10-1	4-Methyl-2-pentanone(MIBK)	BSP	REC	91	%	70-130
V1C7854-BS	74-95-3	Methylene bromide	BSP	REC	96	%	70-130
V1C7854-BS	75-09-2	Methylene chloride	BSP	REC	95	%	70-130
V1C7854-BS	91-20-3	Naphthalene	BSP	REC	93	%	70-130
V1C7854-BS	103-65-1	n-Propylbenzene	BSP	REC	88	%	70-130
V1C7854-BS	100-42-5	Styrene	BSP	REC	91	%	70-130
V1C7854-BS	630-20-6	1,1,1,2-Tetrachloroethane	BSP	REC	93	%	70-130
V1C7854-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	92	%	70-130
V1C7854-BS	127-18-4	Tetrachloroethene	BSP	REC	91	%	70-130
V1C7854-BS	109-99-9	Tetrahydrofuran	BSP	REC	98	%	70-130
V1C7854-BS	108-88-3	Toluene	BSP	REC	90	%	70-130
V1C7854-BS	87-61-6	1,2,3-Trichlorobenzene	BSP	REC	97	%	70-130
V1C7854-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	97	%	70-130
V1C7854-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	99	%	70-130
V1C7854-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	99	%	70-130
V1C7854-BS	79-01-6	Trichloroethene	BSP	REC	94	%	70-130
V1C7854-BS	75-69-4	Trichlorofluoromethane	BSP	REC	92	%	70-130
V1C7854-BS	96-18-4	1,2,3-Trichloropropane	BSP	REC	96	%	70-130
V1C7854-BS	95-63-6	1,2,4-Trimethylbenzene	BSP	REC	93	%	70-130
V1C7854-BS	108-67-8	1,3,5-Trimethylbenzene	BSP	REC	91	%	70-130
V1C7854-BS	75-01-4	Vinyl chloride	BSP	REC	89	%	70-130
V1C7854-BS		m,p-Xylene	BSP	REC	88	%	70-130
V1C7854-BS	95-47-6	o-Xylene	BSP	REC	91	%	70-130
V1C7854-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	107	%	70-130
V1C7854-BS	2037-26-5	Toluene-D8	BSP	SURR	103	%	70-130
V1C7854-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	101	%	70-130
V1C7854-MB	1868-53-7	Dibromofluoromethane	MB	SURR	105	%	70-130
V1C7854-MB	2037-26-5	Toluene-D8	MB	SURR	103	%	70-130
V1C7854-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	101	%	70-130
JD29693-18	1868-53-7	Dibromofluoromethane	SAMP	SURR	112	%	70-130
JD29693-18	2037-26-5	Toluene-D8	SAMP	SURR	113	%	70-130
JD29693-18	460-00-4	4-Bromofluorobenzene	SAMP	SURR	122	%	70-130
V1C7860	SW846 8260D						
V1C7860-BS	67-64-1	Acetone	BSP	REC	90	%	70-130

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V1C7860-BS	107-13-1	Acrylonitrile	BSP	REC	91	%	70-130
V1C7860-BS	71-43-2	Benzene	BSP	REC	97	%	70-130
V1C7860-BS	108-86-1	Bromobenzene	BSP	REC	95	%	70-130
V1C7860-BS	75-27-4	Bromodichloromethane	BSP	REC	98	%	70-130
V1C7860-BS	75-25-2	Bromoform	BSP	REC	97	%	70-130
V1C7860-BS	74-83-9	Bromomethane	BSP	REC	86	%	70-130
V1C7860-BS	78-93-3	2-Butanone (MEK)	BSP	REC	92	%	70-130
V1C7860-BS	104-51-8	n-Butylbenzene	BSP	REC	94	%	70-130
V1C7860-BS	135-98-8	sec-Butylbenzene	BSP	REC	94	%	70-130
V1C7860-BS	98-06-6	tert-Butylbenzene	BSP	REC	93	%	70-130
V1C7860-BS	75-15-0	Carbon disulfide	BSP	REC	102	%	70-130
V1C7860-BS	56-23-5	Carbon tetrachloride	BSP	REC	104	%	70-130
V1C7860-BS	108-90-7	Chlorobenzene	BSP	REC	97	%	70-130
V1C7860-BS	75-00-3	Chloroethane	BSP	REC	92	%	70-130
V1C7860-BS	67-66-3	Chloroform	BSP	REC	97	%	70-130
V1C7860-BS	74-87-3	Chloromethane	BSP	REC	86	%	70-130
V1C7860-BS	95-49-8	o-Chlorotoluene	BSP	REC	95	%	70-130
V1C7860-BS	106-43-4	p-Chlorotoluene	BSP	REC	90	%	70-130
V1C7860-BS	96-12-8	1,2-Dibromo-3-chloropropane	BSP	REC	93	%	70-130
V1C7860-BS	124-48-1	Dibromochloromethane	BSP	REC	100	%	70-130
V1C7860-BS	106-93-4	1,2-Dibromoethane	BSP	REC	99	%	70-130
V1C7860-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	96	%	70-130
V1C7860-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	98	%	70-130
V1C7860-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	93	%	70-130
V1C7860-BS	110-57-6	Trans-1,4-Dichloro-2-Butene	BSP	REC	90	%	70-130
V1C7860-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	87	%	70-130
V1C7860-BS	75-34-3	1,1-Dichloroethane	BSP	REC	103	%	70-130
V1C7860-BS	107-06-2	1,2-Dichloroethane	BSP	REC	92	%	70-130
V1C7860-BS	75-35-4	1,1-Dichloroethene	BSP	REC	97	%	70-130
V1C7860-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	95	%	70-130
V1C7860-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	98	%	70-130
V1C7860-BS	78-87-5	1,2-Dichloropropane	BSP	REC	97	%	70-130
V1C7860-BS	142-28-9	1,3-Dichloropropane	BSP	REC	95	%	70-130
V1C7860-BS	594-20-7	2,2-Dichloropropane	BSP	REC	100	%	70-130
V1C7860-BS	563-58-6	1,1-Dichloropropene	BSP	REC	104	%	70-130
V1C7860-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	97	%	70-130
V1C7860-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	103	%	70-130
V1C7860-BS	100-41-4	Ethylbenzene	BSP	REC	92	%	70-130
V1C7860-BS	76-13-1	Freon 113	BSP	REC	106	%	70-130
V1C7860-BS	87-68-3	Hexachlorobutadiene	BSP	REC	104	%	70-130
V1C7860-BS	591-78-6	2-Hexanone	BSP	REC	88	%	70-130
V1C7860-BS	98-82-8	Isopropylbenzene	BSP	REC	93	%	70-130
V1C7860-BS	99-87-6	p-Isopropyltoluene	BSP	REC	95	%	70-130
V1C7860-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	100	%	70-130
V1C7860-BS	108-10-1	4-Methyl-2-pentanone(MIBK)	BSP	REC	86	%	70-130

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V1C7860-BS	74-95-3	Methylene bromide	BSP	REC	95	%	70-130
V1C7860-BS	75-09-2	Methylene chloride	BSP	REC	96	%	70-130
V1C7860-BS	91-20-3	Naphthalene	BSP	REC	93	%	70-130
V1C7860-BS	103-65-1	n-Propylbenzene	BSP	REC	91	%	70-130
V1C7860-BS	100-42-5	Styrene	BSP	REC	93	%	70-130
V1C7860-BS	630-20-6	1,1,1,2-Tetrachloroethane	BSP	REC	97	%	70-130
V1C7860-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	89	%	70-130
V1C7860-BS	127-18-4	Tetrachloroethene	BSP	REC	100	%	70-130
V1C7860-BS	109-99-9	Tetrahydrofuran	BSP	REC	85	%	70-130
V1C7860-BS	108-88-3	Toluene	BSP	REC	95	%	70-130
V1C7860-BS	87-61-6	1,2,3-Trichlorobenzene	BSP	REC	102	%	70-130
V1C7860-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	102	%	70-130
V1C7860-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	104	%	70-130
V1C7860-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	97	%	70-130
V1C7860-BS	79-01-6	Trichloroethene	BSP	REC	101	%	70-130
V1C7860-BS	75-69-4	Trichlorofluoromethane	BSP	REC	96	%	70-130
V1C7860-BS	96-18-4	1,2,3-Trichloropropane	BSP	REC	93	%	70-130
V1C7860-BS	95-63-6	1,2,4-Trimethylbenzene	BSP	REC	95	%	70-130
V1C7860-BS	108-67-8	1,3,5-Trimethylbenzene	BSP	REC	95	%	70-130
V1C7860-BS	75-01-4	Vinyl chloride	BSP	REC	93	%	70-130
V1C7860-BS		m,p-Xylene	BSP	REC	92	%	70-130
V1C7860-BS	95-47-6	o-Xylene	BSP	REC	94	%	70-130
V1C7860-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	103	%	70-130
V1C7860-BS	2037-26-5	Toluene-D8	BSP	SURR	102	%	70-130
V1C7860-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	98	%	70-130
V1C7860-MB	1868-53-7	Dibromofluoromethane	MB	SURR	101	%	70-130
V1C7860-MB	2037-26-5	Toluene-D8	MB	SURR	103	%	70-130
V1C7860-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	97	%	70-130
JD29693-14	1868-53-7	Dibromofluoromethane	SAMP	SURR	103	%	70-130
JD29693-14	2037-26-5	Toluene-D8	SAMP	SURR	101	%	70-130
JD29693-14	460-00-4	4-Bromofluorobenzene	SAMP	SURR	99	%	70-130
OP34845A	SW846 8270E BY SIM						
OP34845A-BS12	83-32-9	Acenaphthene	BSP	REC	68	%	40-140
OP34845A-BS12	208-96-8	Acenaphthylene	BSP	REC	62	%	40-140
OP34845A-BS12	120-12-7	Anthracene	BSP	REC	76	%	40-140
OP34845A-BS12	56-55-3	Benzo(a)anthracene	BSP	REC	70	%	40-140
OP34845A-BS12	50-32-8	Benzo(a)pyrene	BSP	REC	81	%	40-140
OP34845A-BS12	205-99-2	Benzo(b)fluoranthene	BSP	REC	90	%	40-140
OP34845A-BS12	191-24-2	Benzo(g,h,i)perylene	BSP	REC	79	%	40-140
OP34845A-BS12	207-08-9	Benzo(k)fluoranthene	BSP	REC	90	%	40-140
OP34845A-BS12	218-01-9	Chrysene	BSP	REC	72	%	40-140
OP34845A-BS12	53-70-3	Dibenzo(a,h)anthracene	BSP	REC	74	%	40-140
OP34845A-BS12	206-44-0	Fluoranthene	BSP	REC	75	%	40-140

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP34845A-BS12	86-73-7	Fluorene	BSP	REC	71	%	40-140
OP34845A-BS12	193-39-5	Indeno(1,2,3-cd)pyrene	BSP	REC	77	%	40-140
OP34845A-BS12	91-20-3	Naphthalene	BSP	REC	68	%	40-140
OP34845A-BS12	85-01-8	Phenanthrene	BSP	REC	74	%	40-140
OP34845A-BS12	129-00-0	Pyrene	BSP	REC	75	%	40-140
OP34845A-BS12	4165-60-0	Nitrobenzene-d5	BSP	SURR	76	%	30-130
OP34845A-BS12	321-60-8	2-Fluorobiphenyl	BSP	SURR	76	%	30-130
OP34845A-BS12	1718-51-0	Terphenyl-d14	BSP	SURR	82	%	30-130
OP34845A-MSA	83-32-9	Acenaphthene	MS	REC	34	%	40-140
OP34845A-MSA	208-96-8	Acenaphthylene	MS	REC	-215 [a]	%	40-140
OP34845A-MSA	120-12-7	Anthracene	MS	REC	-103 [a]	%	40-140
OP34845A-MSA	56-55-3	Benzo(a)anthracene	MS	REC	-683 [a]	%	40-140
OP34845A-MSA	50-32-8	Benzo(a)pyrene	MS	REC	-1065 [a]	%	40-140
OP34845A-MSA	205-99-2	Benzo(b)fluoranthene	MS	REC	-1681 [a]	%	40-140
OP34845A-MSA	191-24-2	Benzo(g,h,i)perylene	MS	REC	-1512 [a]	%	40-140
OP34845A-MSA	207-08-9	Benzo(k)fluoranthene	MS	REC	-543 [a]	%	40-140
OP34845A-MSA	218-01-9	Chrysene	MS	REC	-923 [a]	%	40-140
OP34845A-MSA	53-70-3	Dibenzo(a,h)anthracene	MS	REC	-299 [a]	%	40-140
OP34845A-MSA	206-44-0	Fluoranthene	MS	REC	-1270 [a]	%	40-140
OP34845A-MSA	86-73-7	Fluorene	MS	REC	6 [b]	%	40-140
OP34845A-MSA	193-39-5	Indeno(1,2,3-cd)pyrene	MS	REC	-1294 [a]	%	40-140
OP34845A-MSA	91-20-3	Naphthalene	MS	REC	1 [b]	%	40-140
OP34845A-MSA	85-01-8	Phenanthrene	MS	REC	-775 [a]	%	40-140
OP34845A-MSA	129-00-0	Pyrene	MS	REC	-1235 [a]	%	40-140
OP34845A-MSA	4165-60-0	Nitrobenzene-d5	MS	SURR	61	%	30-130
OP34845A-MSA	321-60-8	2-Fluorobiphenyl	MS	SURR	60	%	30-130
OP34845A-MSA	1718-51-0	Terphenyl-d14	MS	SURR	60	%	30-130
OP34845A-MSDA	83-32-9	Acenaphthene	MSD	REC	53	%	40-140
OP34845A-MSDA	83-32-9	Acenaphthene	MSD	RPD	73 [c]	%	30
OP34845A-MSDA	208-96-8	Acenaphthylene	MSD	REC	-18 [a]	%	40-140
OP34845A-MSDA	208-96-8	Acenaphthylene	MSD	RPD	46 [c]	%	30
OP34845A-MSDA	120-12-7	Anthracene	MSD	REC	25	%	40-140
OP34845A-MSDA	120-12-7	Anthracene	MSD	RPD	64	%	30
OP34845A-MSDA	56-55-3	Benzo(a)anthracene	MSD	REC	-108 [a]	%	40-140
OP34845A-MSDA	56-55-3	Benzo(a)anthracene	MSD	RPD	63	%	30
OP34845A-MSDA	50-32-8	Benzo(a)pyrene	MSD	REC	-238 [a]	%	40-140
OP34845A-MSDA	50-32-8	Benzo(a)pyrene	MSD	RPD	66 [c]	%	30
OP34845A-MSDA	205-99-2	Benzo(b)fluoranthene	MSD	REC	-346 [a]	%	40-140
OP34845A-MSDA	205-99-2	Benzo(b)fluoranthene	MSD	RPD	73 [c]	%	30
OP34845A-MSDA	191-24-2	Benzo(g,h,i)perylene	MSD	REC	-324 [a]	%	40-140
OP34845A-MSDA	191-24-2	Benzo(g,h,i)perylene	MSD	RPD	81 [c]	%	30
OP34845A-MSDA	207-08-9	Benzo(k)fluoranthene	MSD	REC	-126 [a]	%	40-140
OP34845A-MSDA	207-08-9	Benzo(k)fluoranthene	MSD	RPD	59 [c]	%	30
OP34845A-MSDA	218-01-9	Chrysene	MSD	REC	-184 [a]	%	40-140
OP34845A-MSDA	218-01-9	Chrysene	MSD	RPD	62 [c]	%	30

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP34845A-MSDA	53-70-3	Dibenzo(a,h)anthracene	MSD	REC	-36 [a]	%	40-140
OP34845A-MSDA	53-70-3	Dibenzo(a,h)anthracene	MSD	RPD	76 [c]	%	30
OP34845A-MSDA	206-44-0	Fluoranthene	MSD	REC	-278 [a]	%	40-140
OP34845A-MSDA	206-44-0	Fluoranthene	MSD	RPD	70	%	30
OP34845A-MSDA	86-73-7	Fluorene	MSD	REC	50	%	40-140
OP34845A-MSDA	86-73-7	Fluorene	MSD	RPD	72 [c]	%	30
OP34845A-MSDA	193-39-5	Indeno(1,2,3-cd)pyrene	MSD	REC	-270 [a]	%	40-140
OP34845A-MSDA	193-39-5	Indeno(1,2,3-cd)pyrene	MSD	RPD	79 [c]	%	30
OP34845A-MSDA	91-20-3	Naphthalene	MSD	REC	57	%	40-140
OP34845A-MSDA	91-20-3	Naphthalene	MSD	RPD	63	%	30
OP34845A-MSDA	85-01-8	Phenanthrene	MSD	REC	-163 [a]	%	40-140
OP34845A-MSDA	85-01-8	Phenanthrene	MSD	RPD	60	%	30
OP34845A-MSDA	129-00-0	Pyrene	MSD	REC	-276 [a]	%	40-140
OP34845A-MSDA	129-00-0	Pyrene	MSD	RPD	65	%	30
OP34845A-MSDA	4165-60-0	Nitrobenzene-d5	MSD	SURR	70	%	30-130
OP34845A-MSDA	321-60-8	2-Fluorobiphenyl	MSD	SURR	68	%	30-130
OP34845A-MSDA	1718-51-0	Terphenyl-d14	MSD	SURR	68	%	30-130
OP34845A-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	78	%	30-130
OP34845A-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	75	%	30-130
OP34845A-MB1	1718-51-0	Terphenyl-d14	MB	SURR	82	%	30-130
JD29693-1	4165-60-0	Nitrobenzene-d5	SAMP	SURR	72	%	30-130
JD29693-1	321-60-8	2-Fluorobiphenyl	SAMP	SURR	72	%	30-130
JD29693-1	1718-51-0	Terphenyl-d14	SAMP	SURR	73	%	30-130
JD29693-2	4165-60-0	Nitrobenzene-d5	SAMP	SURR	61	%	30-130
JD29693-2	321-60-8	2-Fluorobiphenyl	SAMP	SURR	59	%	30-130
JD29693-2	1718-51-0	Terphenyl-d14	SAMP	SURR	63	%	30-130
JD29693-3	4165-60-0	Nitrobenzene-d5	SAMP	SURR	59	%	30-130
JD29693-3	4165-60-0	Nitrobenzene-d5	SAMP	SURR	63	%	30-130
JD29693-3	321-60-8	2-Fluorobiphenyl	SAMP	SURR	70	%	30-130
JD29693-3	321-60-8	2-Fluorobiphenyl	SAMP	SURR	58	%	30-130
JD29693-3	1718-51-0	Terphenyl-d14	SAMP	SURR	71	%	30-130
JD29693-3	1718-51-0	Terphenyl-d14	SAMP	SURR	59	%	30-130
JD29693-4	4165-60-0	Nitrobenzene-d5	SAMP	SURR	73	%	30-130
JD29693-4	321-60-8	2-Fluorobiphenyl	SAMP	SURR	71	%	30-130
JD29693-4	1718-51-0	Terphenyl-d14	SAMP	SURR	73	%	30-130
JD29693-5	4165-60-0	Nitrobenzene-d5	SAMP	SURR	53	%	30-130
JD29693-5	321-60-8	2-Fluorobiphenyl	SAMP	SURR	52	%	30-130
JD29693-5	1718-51-0	Terphenyl-d14	SAMP	SURR	54	%	30-130
JD29693-6	4165-60-0	Nitrobenzene-d5	SAMP	SURR	65	%	30-130
JD29693-6	321-60-8	2-Fluorobiphenyl	SAMP	SURR	63	%	30-130
JD29693-6	1718-51-0	Terphenyl-d14	SAMP	SURR	63	%	30-130
JD29693-7	4165-60-0	Nitrobenzene-d5	SAMP	SURR	60	%	30-130
JD29693-7	4165-60-0	Nitrobenzene-d5	SAMP	SURR	66	%	30-130
JD29693-7	321-60-8	2-Fluorobiphenyl	SAMP	SURR	60	%	30-130
JD29693-7	321-60-8	2-Fluorobiphenyl	SAMP	SURR	75	%	30-130

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD29693-7	1718-51-0	Terphenyl-d14	SAMP	SURR	75	%	30-130
JD29693-7	1718-51-0	Terphenyl-d14	SAMP	SURR	61	%	30-130
JD29693-8	4165-60-0	Nitrobenzene-d5	SAMP	SURR	81	%	30-130
JD29693-8	4165-60-0	Nitrobenzene-d5	SAMP	SURR	71	%	30-130
JD29693-8	321-60-8	2-Fluorobiphenyl	SAMP	SURR	90 [d]	%	30-130
JD29693-8	321-60-8	2-Fluorobiphenyl	SAMP	SURR	68	%	30-130
JD29693-8	1718-51-0	Terphenyl-d14	SAMP	SURR	84	%	30-130
JD29693-8	1718-51-0	Terphenyl-d14	SAMP	SURR	62	%	30-130
JD29693-9	4165-60-0	Nitrobenzene-d5	SAMP	SURR	59	%	30-130
JD29693-9	321-60-8	2-Fluorobiphenyl	SAMP	SURR	58	%	30-130
JD29693-9	1718-51-0	Terphenyl-d14	SAMP	SURR	59	%	30-130
JD29693-10	4165-60-0	Nitrobenzene-d5	SAMP	SURR	67	%	30-130
JD29693-10	4165-60-0	Nitrobenzene-d5	SAMP	SURR	61	%	30-130
JD29693-10	321-60-8	2-Fluorobiphenyl	SAMP	SURR	67	%	30-130
JD29693-10	321-60-8	2-Fluorobiphenyl	SAMP	SURR	64	%	30-130
JD29693-10	1718-51-0	Terphenyl-d14	SAMP	SURR	66	%	30-130
JD29693-10	1718-51-0	Terphenyl-d14	SAMP	SURR	63	%	30-130
JD29693-11	4165-60-0	Nitrobenzene-d5	SAMP	SURR	64	%	30-130
JD29693-11	4165-60-0	Nitrobenzene-d5	SAMP	SURR	74	%	30-130
JD29693-11	4165-60-0	Nitrobenzene-d5	SAMP	SURR	80	%	30-130
JD29693-11	321-60-8	2-Fluorobiphenyl	SAMP	SURR	80	%	30-130
JD29693-11	321-60-8	2-Fluorobiphenyl	SAMP	SURR	89 [e]	%	30-130
JD29693-11	321-60-8	2-Fluorobiphenyl	SAMP	SURR	60	%	30-130
JD29693-11	1718-51-0	Terphenyl-d14	SAMP	SURR	55	%	30-130
JD29693-11	1718-51-0	Terphenyl-d14	SAMP	SURR	87	%	30-130
JD29693-11	1718-51-0	Terphenyl-d14	SAMP	SURR	75	%	30-130
JD29693-12	4165-60-0	Nitrobenzene-d5	SAMP	SURR	65	%	30-130
JD29693-12	321-60-8	2-Fluorobiphenyl	SAMP	SURR	64	%	30-130
JD29693-12	1718-51-0	Terphenyl-d14	SAMP	SURR	67	%	30-130
JD29693-13	4165-60-0	Nitrobenzene-d5	SAMP	SURR	74	%	30-130
JD29693-13	321-60-8	2-Fluorobiphenyl	SAMP	SURR	76	%	30-130
JD29693-13	1718-51-0	Terphenyl-d14	SAMP	SURR	81	%	30-130
JD29693-15	4165-60-0	Nitrobenzene-d5	SAMP	SURR	66	%	30-130
JD29693-15	4165-60-0	Nitrobenzene-d5	SAMP	SURR	74	%	30-130
JD29693-15	4165-60-0	Nitrobenzene-d5	SAMP	SURR	77	%	30-130
JD29693-15	321-60-8	2-Fluorobiphenyl	SAMP	SURR	67	%	30-130
JD29693-15	321-60-8	2-Fluorobiphenyl	SAMP	SURR	85 [e]	%	30-130
JD29693-15	321-60-8	2-Fluorobiphenyl	SAMP	SURR	90 [e]	%	30-130
JD29693-15	1718-51-0	Terphenyl-d14	SAMP	SURR	62	%	30-130
JD29693-15	1718-51-0	Terphenyl-d14	SAMP	SURR	84	%	30-130
JD29693-15	1718-51-0	Terphenyl-d14	SAMP	SURR	92	%	30-130
OP34846A	SW846 8270E BY SIM						
OP34846A-BS12	83-32-9	Acenaphthene	BSP	REC	70	%	40-140

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP34846A-BS12	208-96-8	Acenaphthylene	BSP	REC	67	%	40-140
OP34846A-BS12	120-12-7	Anthracene	BSP	REC	78	%	40-140
OP34846A-BS12	56-55-3	Benzo(a)anthracene	BSP	REC	80	%	40-140
OP34846A-BS12	50-32-8	Benzo(a)pyrene	BSP	REC	76	%	40-140
OP34846A-BS12	205-99-2	Benzo(b)fluoranthene	BSP	REC	89	%	40-140
OP34846A-BS12	191-24-2	Benzo(g,h,i)perylene	BSP	REC	68	%	40-140
OP34846A-BS12	207-08-9	Benzo(k)fluoranthene	BSP	REC	83	%	40-140
OP34846A-BS12	218-01-9	Chrysene	BSP	REC	74	%	40-140
OP34846A-BS12	53-70-3	Dibenzo(a,h)anthracene	BSP	REC	77	%	40-140
OP34846A-BS12	206-44-0	Fluoranthene	BSP	REC	74	%	40-140
OP34846A-BS12	86-73-7	Fluorene	BSP	REC	72	%	40-140
OP34846A-BS12	193-39-5	Indeno(1,2,3-cd)pyrene	BSP	REC	73	%	40-140
OP34846A-BS12	91-20-3	Naphthalene	BSP	REC	69	%	40-140
OP34846A-BS12	85-01-8	Phenanthrene	BSP	REC	76	%	40-140
OP34846A-BS12	129-00-0	Pyrene	BSP	REC	77	%	40-140
OP34846A-BS12	4165-60-0	Nitrobenzene-d5	BSP	SURR	80	%	30-130
OP34846A-BS12	321-60-8	2-Fluorobiphenyl	BSP	SURR	78	%	30-130
OP34846A-BS12	1718-51-0	Terphenyl-d14	BSP	SURR	83	%	30-130
OP34846A-MSA	83-32-9	Acenaphthene	MS	REC	50	%	40-140
OP34846A-MSA	208-96-8	Acenaphthylene	MS	REC	37	%	40-140
OP34846A-MSA	120-12-7	Anthracene	MS	REC	40	%	40-140
OP34846A-MSA	56-55-3	Benzo(a)anthracene	MS	REC	37	%	40-140
OP34846A-MSA	50-32-8	Benzo(a)pyrene	MS	REC	37	%	40-140
OP34846A-MSA	205-99-2	Benzo(b)fluoranthene	MS	REC	24	%	40-140
OP34846A-MSA	191-24-2	Benzo(g,h,i)perylene	MS	REC	31	%	40-140
OP34846A-MSA	207-08-9	Benzo(k)fluoranthene	MS	REC	49	%	40-140
OP34846A-MSA	218-01-9	Chrysene	MS	REC	29 [a]	%	40-140
OP34846A-MSA	53-70-3	Dibenzo(a,h)anthracene	MS	REC	26	%	40-140
OP34846A-MSA	206-44-0	Fluoranthene	MS	REC	8 [a]	%	40-140
OP34846A-MSA	86-73-7	Fluorene	MS	REC	49	%	40-140
OP34846A-MSA	193-39-5	Indeno(1,2,3-cd)pyrene	MS	REC	37	%	40-140
OP34846A-MSA	91-20-3	Naphthalene	MS	REC	8 [a]	%	40-140
OP34846A-MSA	85-01-8	Phenanthrene	MS	REC	-34 [a]	%	40-140
OP34846A-MSA	129-00-0	Pyrene	MS	REC	24	%	40-140
OP34846A-MSA	4165-60-0	Nitrobenzene-d5	MS	SURR	58	%	30-130
OP34846A-MSA	321-60-8	2-Fluorobiphenyl	MS	SURR	56	%	30-130
OP34846A-MSA	1718-51-0	Terphenyl-d14	MS	SURR	55	%	30-130
OP34846A-MSDA	83-32-9	Acenaphthene	MSD	REC	57	%	40-140
OP34846A-MSDA	83-32-9	Acenaphthene	MSD	RPD	8	%	30
OP34846A-MSDA	208-96-8	Acenaphthylene	MSD	REC	83	%	40-140
OP34846A-MSDA	208-96-8	Acenaphthylene	MSD	RPD	22	%	30
OP34846A-MSDA	120-12-7	Anthracene	MSD	REC	125	%	40-140
OP34846A-MSDA	120-12-7	Anthracene	MSD	RPD	31	%	30
OP34846A-MSDA	56-55-3	Benzo(a)anthracene	MSD	REC	212 [a]	%	40-140
OP34846A-MSDA	56-55-3	Benzo(a)anthracene	MSD	RPD	33	%	30

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP34846A-MSDA	50-32-8	Benzo(a)pyrene	MSD	REC	214 [a]	%	40-140
OP34846A-MSDA	50-32-8	Benzo(a)pyrene	MSD	RPD	45	%	30
OP34846A-MSDA	205-99-2	Benzo(b)fluoranthene	MSD	REC	303 [a]	%	40-140
OP34846A-MSDA	205-99-2	Benzo(b)fluoranthene	MSD	RPD	41	%	30
OP34846A-MSDA	191-24-2	Benzo(g,h,i)perylene	MSD	REC	175 [b]	%	40-140
OP34846A-MSDA	191-24-2	Benzo(g,h,i)perylene	MSD	RPD	50	%	30
OP34846A-MSDA	207-08-9	Benzo(k)fluoranthene	MSD	REC	124	%	40-140
OP34846A-MSDA	207-08-9	Benzo(k)fluoranthene	MSD	RPD	29	%	30
OP34846A-MSDA	218-01-9	Chrysene	MSD	REC	220 [a]	%	40-140
OP34846A-MSDA	218-01-9	Chrysene	MSD	RPD	34	%	30
OP34846A-MSDA	53-70-3	Dibenzo(a,h)anthracene	MSD	REC	102	%	40-140
OP34846A-MSDA	53-70-3	Dibenzo(a,h)anthracene	MSD	RPD	59 [c]	%	30
OP34846A-MSDA	206-44-0	Fluoranthene	MSD	REC	265 [a]	%	40-140
OP34846A-MSDA	206-44-0	Fluoranthene	MSD	RPD	26	%	30
OP34846A-MSDA	86-73-7	Fluorene	MSD	REC	73	%	40-140
OP34846A-MSDA	86-73-7	Fluorene	MSD	RPD	20	%	30
OP34846A-MSDA	193-39-5	Indeno(1,2,3-cd)pyrene	MSD	REC	181 [b]	%	40-140
OP34846A-MSDA	193-39-5	Indeno(1,2,3-cd)pyrene	MSD	RPD	47	%	30
OP34846A-MSDA	91-20-3	Naphthalene	MSD	REC	35	%	40-140
OP34846A-MSDA	91-20-3	Naphthalene	MSD	RPD	9	%	30
OP34846A-MSDA	85-01-8	Phenanthrene	MSD	REC	198 [a]	%	40-140
OP34846A-MSDA	85-01-8	Phenanthrene	MSD	RPD	25	%	30
OP34846A-MSDA	129-00-0	Pyrene	MSD	REC	255 [a]	%	40-140
OP34846A-MSDA	129-00-0	Pyrene	MSD	RPD	26	%	30
OP34846A-MSDA	4165-60-0	Nitrobenzene-d5	MSD	SURR	62	%	30-130
OP34846A-MSDA	321-60-8	2-Fluorobiphenyl	MSD	SURR	60	%	30-130
OP34846A-MSDA	1718-51-0	Terphenyl-d14	MSD	SURR	63	%	30-130
OP34846A-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	60	%	30-130
OP34846A-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	57	%	30-130
OP34846A-MB1	1718-51-0	Terphenyl-d14	MB	SURR	61	%	30-130
JD29693-16	4165-60-0	Nitrobenzene-d5	SAMP	SURR	63	%	30-130
JD29693-16	321-60-8	2-Fluorobiphenyl	SAMP	SURR	58	%	30-130
JD29693-16	1718-51-0	Terphenyl-d14	SAMP	SURR	62	%	30-130
JD29693-17	4165-60-0	Nitrobenzene-d5	SAMP	SURR	59	%	30-130
JD29693-17	4165-60-0	Nitrobenzene-d5	SAMP	SURR	54	%	30-130
JD29693-17	4165-60-0	Nitrobenzene-d5	SAMP	SURR	57	%	30-130
JD29693-17	321-60-8	2-Fluorobiphenyl	SAMP	SURR	63	%	30-130
JD29693-17	321-60-8	2-Fluorobiphenyl	SAMP	SURR	53	%	30-130
JD29693-17	321-60-8	2-Fluorobiphenyl	SAMP	SURR	60	%	30-130
JD29693-17	1718-51-0	Terphenyl-d14	SAMP	SURR	56	%	30-130
JD29693-17	1718-51-0	Terphenyl-d14	SAMP	SURR	64	%	30-130
JD29693-17	1718-51-0	Terphenyl-d14	SAMP	SURR	65	%	30-130
JD29693-18	4165-60-0	Nitrobenzene-d5	SAMP	SURR	53	%	30-130
JD29693-18	4165-60-0	Nitrobenzene-d5	SAMP	SURR	47	%	30-130
JD29693-18	321-60-8	2-Fluorobiphenyl	SAMP	SURR	63	%	30-130

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD29693-18	321-60-8	2-Fluorobiphenyl	SAMP	SURR	53	%	30-130
JD29693-18	1718-51-0	Terphenyl-d14	SAMP	SURR	63	%	30-130
JD29693-18	1718-51-0	Terphenyl-d14	SAMP	SURR	52	%	30-130
JD29693-19	4165-60-0	Nitrobenzene-d5	SAMP	SURR	55	%	30-130
JD29693-19	4165-60-0	Nitrobenzene-d5	SAMP	SURR	57	%	30-130
JD29693-19	321-60-8	2-Fluorobiphenyl	SAMP	SURR	53	%	30-130
JD29693-19	321-60-8	2-Fluorobiphenyl	SAMP	SURR	58	%	30-130
JD29693-19	1718-51-0	Terphenyl-d14	SAMP	SURR	53	%	30-130
JD29693-19	1718-51-0	Terphenyl-d14	SAMP	SURR	50	%	30-130
JD29693-20	4165-60-0	Nitrobenzene-d5	SAMP	SURR	63	%	30-130
JD29693-20	321-60-8	2-Fluorobiphenyl	SAMP	SURR	61	%	30-130
JD29693-20	1718-51-0	Terphenyl-d14	SAMP	SURR	65	%	30-130
JD29693-21	4165-60-0	Nitrobenzene-d5	SAMP	SURR	68	%	30-130
JD29693-21	4165-60-0	Nitrobenzene-d5	SAMP	SURR	74	%	30-130
JD29693-21	4165-60-0	Nitrobenzene-d5	SAMP	SURR	69	%	30-130
JD29693-21	321-60-8	2-Fluorobiphenyl	SAMP	SURR	79	%	30-130
JD29693-21	321-60-8	2-Fluorobiphenyl	SAMP	SURR	77	%	30-130
JD29693-21	321-60-8	2-Fluorobiphenyl	SAMP	SURR	67	%	30-130
JD29693-21	1718-51-0	Terphenyl-d14	SAMP	SURR	78	%	30-130
JD29693-21	1718-51-0	Terphenyl-d14	SAMP	SURR	79	%	30-130
JD29693-21	1718-51-0	Terphenyl-d14	SAMP	SURR	67	%	30-130
JD29693-22	4165-60-0	Nitrobenzene-d5	SAMP	SURR	55	%	30-130
JD29693-22	4165-60-0	Nitrobenzene-d5	SAMP	SURR	58	%	30-130
JD29693-22	4165-60-0	Nitrobenzene-d5	SAMP	SURR	62	%	30-130
JD29693-22	4165-60-0	Nitrobenzene-d5	SAMP	SURR	57	%	30-130
JD29693-22	321-60-8	2-Fluorobiphenyl	SAMP	SURR	62	%	30-130
JD29693-22	321-60-8	2-Fluorobiphenyl	SAMP	SURR	54	%	30-130
JD29693-22	321-60-8	2-Fluorobiphenyl	SAMP	SURR	51	%	30-130
JD29693-22	321-60-8	2-Fluorobiphenyl	SAMP	SURR	64	%	30-130
JD29693-22	1718-51-0	Terphenyl-d14	SAMP	SURR	66	%	30-130
JD29693-22	1718-51-0	Terphenyl-d14	SAMP	SURR	52	%	30-130
JD29693-22	1718-51-0	Terphenyl-d14	SAMP	SURR	64	%	30-130
JD29693-22	1718-51-0	Terphenyl-d14	SAMP	SURR	56	%	30-130
OP34849	SW846 8081B						
OP34849-BS1	309-00-2	Aldrin	BSP	REC	116	%	40-140
OP34849-BS1	15972-60-8	Alachlor	BSP	REC	93	%	40-140
OP34849-BS1	319-84-6	alpha-BHC	BSP	REC	91	%	40-140
OP34849-BS1	319-85-7	beta-BHC	BSP	REC	110	%	40-140
OP34849-BS1	319-86-8	delta-BHC	BSP	REC	98	%	40-140
OP34849-BS1	58-89-9	gamma-BHC (Lindane)	BSP	REC	91	%	40-140
OP34849-BS1	60-57-1	Dieldrin	BSP	REC	97	%	40-140
OP34849-BS1	72-54-8	4,4'-DDD	BSP	REC	94	%	40-140
OP34849-BS1	72-55-9	4,4'-DDE	BSP	REC	98	%	40-140

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP34849-BS1	50-29-3	4,4'-DDT	BSP	REC	107	%	40-140
OP34849-BS1	72-20-8	Endrin	BSP	REC	121	%	40-140
OP34849-BS1	1031-07-8	Endosulfan sulfate	BSP	REC	92	%	40-140
OP34849-BS1	7421-93-4	Endrin aldehyde	BSP	REC	103	%	40-140
OP34849-BS1	959-98-8	Endosulfan-I	BSP	REC	82 [f]	%	40-140
OP34849-BS1	33213-65-9	Endosulfan-II	BSP	REC	92	%	40-140
OP34849-BS1	76-44-8	Heptachlor	BSP	REC	97	%	40-140
OP34849-BS1	1024-57-3	Heptachlor epoxide	BSP	REC	94	%	40-140
OP34849-BS1	72-43-5	Methoxychlor	BSP	REC	98	%	40-140
OP34849-BS1	53494-70-5	Endrin ketone	BSP	REC	98	%	40-140
OP34849-BS1	877-09-8	Tetrachloro-m-xylene (sig#1)	BSP	SURR	75	%	30-150
OP34849-BS1	877-09-8	Tetrachloro-m-xylene (sig#2)	BSP	SURR	77	%	30-150
OP34849-BS1	2051-24-3	Decachlorobiphenyl (sig#1)	BSP	SURR	94	%	30-150
OP34849-BS1	2051-24-3	Decachlorobiphenyl (sig#2)	BSP	SURR	84	%	30-150
OP34849-MS	309-00-2	Aldrin	MS	REC	91	%	30-150
OP34849-MS	15972-60-8	Alachlor	MS	REC	69	%	30-150
OP34849-MS	319-84-6	alpha-BHC	MS	REC	78	%	30-150
OP34849-MS	319-85-7	beta-BHC	MS	REC	118	%	30-150
OP34849-MS	319-86-8	delta-BHC	MS	REC	90	%	30-150
OP34849-MS	58-89-9	gamma-BHC (Lindane)	MS	REC	82	%	30-150
OP34849-MS	60-57-1	Dieldrin	MS	REC	81	%	30-150
OP34849-MS	72-54-8	4,4'-DDD	MS	REC	83	%	30-150
OP34849-MS	72-55-9	4,4'-DDE	MS	REC	93	%	30-150
OP34849-MS	50-29-3	4,4'-DDT	MS	REC	108	%	30-150
OP34849-MS	72-20-8	Endrin	MS	REC	96	%	30-150
OP34849-MS	1031-07-8	Endosulfan sulfate	MS	REC	80	%	30-150
OP34849-MS	7421-93-4	Endrin aldehyde	MS	REC	86	%	30-150
OP34849-MS	959-98-8	Endosulfan-I	MS	REC	92	%	30-150
OP34849-MS	33213-65-9	Endosulfan-II	MS	REC	78	%	30-150
OP34849-MS	76-44-8	Heptachlor	MS	REC	88	%	30-150
OP34849-MS	1024-57-3	Heptachlor epoxide	MS	REC	82	%	30-150
OP34849-MS	72-43-5	Methoxychlor	MS	REC	89	%	30-150
OP34849-MS	53494-70-5	Endrin ketone	MS	REC	89	%	30-150
OP34849-MS	877-09-8	Tetrachloro-m-xylene (sig#1)	MS	SURR	71	%	30-150
OP34849-MS	877-09-8	Tetrachloro-m-xylene (sig#2)	MS	SURR	74	%	30-150
OP34849-MS	2051-24-3	Decachlorobiphenyl (sig#1)	MS	SURR	83	%	30-150
OP34849-MS	2051-24-3	Decachlorobiphenyl (sig#2)	MS	SURR	78	%	30-150
OP34849-MSD	309-00-2	Aldrin	MSD	REC	163	%	30-150
OP34849-MSD	309-00-2	Aldrin	MSD	RPD	50	%	30
OP34849-MSD	15972-60-8	Alachlor	MSD	REC	141	%	30-150
OP34849-MSD	15972-60-8	Alachlor	MSD	RPD	63	%	30
OP34849-MSD	319-84-6	alpha-BHC	MSD	REC	148	%	30-150
OP34849-MSD	319-84-6	alpha-BHC	MSD	RPD	55	%	30
OP34849-MSD	319-85-7	beta-BHC	MSD	REC	117	%	30-150
OP34849-MSD	319-85-7	beta-BHC	MSD	RPD	7	%	30

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP34849-MSD	319-86-8	delta-BHC	MSD	REC	133	%	30-150
OP34849-MSD	319-86-8	delta-BHC	MSD	RPD	32	%	30
OP34849-MSD	58-89-9	gamma-BHC (Lindane)	MSD	REC	123	%	30-150
OP34849-MSD	58-89-9	gamma-BHC (Lindane)	MSD	RPD	33	%	30
OP34849-MSD	12789-03-6	Chlordane	MSD	RPD	0	%	30
OP34849-MSD	60-57-1	Dieldrin	MSD	REC	141	%	30-150
OP34849-MSD	60-57-1	Dieldrin	MSD	RPD	47	%	30
OP34849-MSD	72-54-8	4,4'-DDD	MSD	REC	121	%	30-150
OP34849-MSD	72-54-8	4,4'-DDD	MSD	RPD	30	%	30
OP34849-MSD	72-55-9	4,4'-DDE	MSD	REC	124	%	30-150
OP34849-MSD	72-55-9	4,4'-DDE	MSD	RPD	22	%	30
OP34849-MSD	50-29-3	4,4'-DDT	MSD	REC	136	%	30-150
OP34849-MSD	50-29-3	4,4'-DDT	MSD	RPD	16	%	30
OP34849-MSD	72-20-8	Endrin	MSD	REC	147	%	30-150
OP34849-MSD	72-20-8	Endrin	MSD	RPD	35	%	30
OP34849-MSD	1031-07-8	Endosulfan sulfate	MSD	REC	127	%	30-150
OP34849-MSD	1031-07-8	Endosulfan sulfate	MSD	RPD	39	%	30
OP34849-MSD	7421-93-4	Endrin aldehyde	MSD	REC	133	%	30-150
OP34849-MSD	7421-93-4	Endrin aldehyde	MSD	RPD	36	%	30
OP34849-MSD	959-98-8	Endosulfan-I	MSD	REC	123	%	30-150
OP34849-MSD	959-98-8	Endosulfan-I	MSD	RPD	22	%	30
OP34849-MSD	33213-65-9	Endosulfan-II	MSD	REC	122	%	30-150
OP34849-MSD	33213-65-9	Endosulfan-II	MSD	RPD	37	%	30
OP34849-MSD	76-44-8	Heptachlor	MSD	REC	130	%	30-150
OP34849-MSD	76-44-8	Heptachlor	MSD	RPD	32	%	30
OP34849-MSD	1024-57-3	Heptachlor epoxide	MSD	REC	124	%	30-150
OP34849-MSD	1024-57-3	Heptachlor epoxide	MSD	RPD	35	%	30
OP34849-MSD	72-43-5	Methoxychlor	MSD	REC	130	%	30-150
OP34849-MSD	72-43-5	Methoxychlor	MSD	RPD	31	%	30
OP34849-MSD	53494-70-5	Endrin ketone	MSD	REC	120	%	30-150
OP34849-MSD	53494-70-5	Endrin ketone	MSD	RPD	23	%	30
OP34849-MSD	8001-35-2	Toxaphene	MSD	RPD	0	%	30
OP34849-MSD	877-09-8	Tetrachloro-m-xylene (sig#1)	MSD	SURR	111	%	30-150
OP34849-MSD	877-09-8	Tetrachloro-m-xylene (sig#2)	MSD	SURR	115	%	30-150
OP34849-MSD	2051-24-3	Decachlorobiphenyl (sig#1)	MSD	SURR	120	%	30-150
OP34849-MSD	2051-24-3	Decachlorobiphenyl (sig#2)	MSD	SURR	127	%	30-150
OP34849-MB1	877-09-8	Tetrachloro-m-xylene (sig#1)	MB	SURR	128	%	30-150
OP34849-MB1	877-09-8	Tetrachloro-m-xylene (sig#1)	MB	SURR	123	%	30-150
OP34849-MB1	877-09-8	Tetrachloro-m-xylene (sig#2)	MB	SURR	127	%	30-150
OP34849-MB1	877-09-8	Tetrachloro-m-xylene (sig#2)	MB	SURR	127	%	30-150
OP34849-MB1	2051-24-3	Decachlorobiphenyl (sig#1)	MB	SURR	136	%	30-150
OP34849-MB1	2051-24-3	Decachlorobiphenyl (sig#1)	MB	SURR	141	%	30-150
OP34849-MB1	2051-24-3	Decachlorobiphenyl (sig#2)	MB	SURR	146	%	30-150
OP34849-MB1	2051-24-3	Decachlorobiphenyl (sig#2)	MB	SURR	136	%	30-150
JD29693-1	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	91	%	30-150

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD29693-1	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	105	%	30-150
JD29693-1	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	167	%	30-150
JD29693-1	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	314 [b]	%	30-150
JD29693-2	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	77	%	30-150
JD29693-2	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	80	%	30-150
JD29693-2	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	87	%	30-150
JD29693-2	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	84	%	30-150
JD29693-3	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	91	%	30-150
JD29693-3	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	99	%	30-150
JD29693-3	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	83	%	30-150
JD29693-3	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	119	%	30-150
JD29693-4	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	69	%	30-150
JD29693-4	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	72	%	30-150
JD29693-4	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	66	%	30-150
JD29693-4	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	67	%	30-150
JD29693-5	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	89	%	30-150
JD29693-5	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	101	%	30-150
JD29693-5	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	88	%	30-150
JD29693-5	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	131	%	30-150
JD29693-6	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	75	%	30-150
JD29693-6	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	80	%	30-150
JD29693-6	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	73	%	30-150
JD29693-6	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	83	%	30-150
JD29693-7	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	110	%	30-150
JD29693-7	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	93	%	30-150
JD29693-7	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	129	%	30-150
JD29693-7	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	109	%	30-150
JD29693-7	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	170	%	30-150
JD29693-7	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	104	%	30-150
JD29693-7	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	276 [b]	%	30-150
JD29693-7	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	283 [b]	%	30-150
JD29693-8	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	67	%	30-150
JD29693-8	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	72	%	30-150
JD29693-8	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	68	%	30-150
JD29693-8	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	131	%	30-150
JD29693-9	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	75	%	30-150
JD29693-9	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	80	%	30-150
JD29693-9	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	67	%	30-150
JD29693-9	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	70	%	30-150
JD29693-10	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	62	%	30-150
JD29693-10	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	83	%	30-150
JD29693-10	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	87	%	30-150
JD29693-10	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	530 [b]	%	30-150
JD29693-11	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	151 [b]	%	30-150
JD29693-11	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	161 [b]	%	30-150

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD29693-11	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	104	%	30-150
JD29693-11	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	94	%	30-150
JD29693-11	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	1588 [b]	%	30-150
JD29693-11	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	2609 [b]	%	30-150
JD29693-11	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	5118 [b]	%	30-150
JD29693-11	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	4096 [b]	%	30-150
JD29693-12	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	64	%	30-150
JD29693-12	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	69	%	30-150
JD29693-12	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	63	%	30-150
JD29693-12	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	72	%	30-150
JD29693-13	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	63	%	30-150
JD29693-13	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	65	%	30-150
JD29693-13	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	64	%	30-150
JD29693-13	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	68	%	30-150
JD29693-15	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	112	%	30-150
JD29693-15	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	94	%	30-150
JD29693-15	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	102	%	30-150
JD29693-15	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	121	%	30-150
OP34850	SW846 8082A						
OP34850-BS1	12674-11-2	Aroclor 1016	BSP	REC	305 [c]	%	40-140
OP34850-BS1	11096-82-5	Aroclor 1260	BSP	REC	269 [c]	%	40-140
OP34850-BS1	877-09-8	Tetrachloro-m-xylene (sig#1)	BSP	SURR	176 [c]	%	30-150
OP34850-BS1	877-09-8	Tetrachloro-m-xylene (sig#2)	BSP	SURR	177 [c]	%	30-150
OP34850-BS1	2051-24-3	Decachlorobiphenyl (sig#1)	BSP	SURR	214 [c]	%	30-150
OP34850-BS1	2051-24-3	Decachlorobiphenyl (sig#2)	BSP	SURR	193 [c]	%	30-150
OP34850-MB1	877-09-8	Tetrachloro-m-xylene (sig#1)	MB	SURR	108	%	30-150
OP34850-MB1	877-09-8	Tetrachloro-m-xylene (sig#2)	MB	SURR	105	%	30-150
OP34850-MB1	2051-24-3	Decachlorobiphenyl (sig#1)	MB	SURR	122	%	30-150
OP34850-MB1	2051-24-3	Decachlorobiphenyl (sig#2)	MB	SURR	113	%	30-150
JD29693-2	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	136	%	30-150
JD29693-2	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	138	%	30-150
JD29693-2	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	154 [g]	%	30-150
JD29693-2	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	142	%	30-150
JD29693-4	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	118	%	30-150
JD29693-4	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	115	%	30-150
JD29693-4	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	128	%	30-150
JD29693-4	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	107	%	30-150
JD29693-5	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	82	%	30-150
JD29693-5	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	84	%	30-150
JD29693-5	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	122	%	30-150
JD29693-5	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	66	%	30-150
JD29693-6	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	110	%	30-150
JD29693-6	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	107	%	30-150

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD29693-6	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	115	%	30-150
JD29693-6	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	107	%	30-150
JD29693-9	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	132	%	30-150
JD29693-9	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	126	%	30-150
JD29693-9	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	159 [g]	%	30-150
JD29693-9	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	127	%	30-150
JD29693-10	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	84	%	30-150
JD29693-10	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	80	%	30-150
JD29693-10	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	259 [b]	%	30-150
JD29693-10	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	75	%	30-150
JD29693-11	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	73	%	30-150
JD29693-11	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	76	%	30-150
JD29693-11	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	869 [b]	%	30-150
JD29693-11	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	120	%	30-150
JD29693-12	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	114	%	30-150
JD29693-12	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	114	%	30-150
JD29693-12	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	131	%	30-150
JD29693-12	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	130	%	30-150
JD29693-13	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	92	%	30-150
JD29693-13	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	90	%	30-150
JD29693-13	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	106	%	30-150
JD29693-13	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	95	%	30-150
OP34851	SW846 8081B						
OP34851-BS1	309-00-2	Aldrin	BSP	REC	94	%	40-140
OP34851-BS1	15972-60-8	Alachlor	BSP	REC	93	%	40-140
OP34851-BS1	319-84-6	alpha-BHC	BSP	REC	97	%	40-140
OP34851-BS1	319-85-7	beta-BHC	BSP	REC	92	%	40-140
OP34851-BS1	319-86-8	delta-BHC	BSP	REC	106	%	40-140
OP34851-BS1	58-89-9	gamma-BHC (Lindane)	BSP	REC	92	%	40-140
OP34851-BS1	60-57-1	Dieldrin	BSP	REC	98	%	40-140
OP34851-BS1	72-54-8	4,4'-DDD	BSP	REC	105	%	40-140
OP34851-BS1	72-55-9	4,4'-DDE	BSP	REC	101	%	40-140
OP34851-BS1	50-29-3	4,4'-DDT	BSP	REC	107	%	40-140
OP34851-BS1	72-20-8	Endrin	BSP	REC	112	%	40-140
OP34851-BS1	1031-07-8	Endosulfan sulfate	BSP	REC	103	%	40-140
OP34851-BS1	7421-93-4	Endrin aldehyde	BSP	REC	124	%	40-140
OP34851-BS1	959-98-8	Endosulfan-I	BSP	REC	101	%	40-140
OP34851-BS1	33213-65-9	Endosulfan-II	BSP	REC	103	%	40-140
OP34851-BS1	76-44-8	Heptachlor	BSP	REC	99	%	40-140
OP34851-BS1	1024-57-3	Heptachlor epoxide	BSP	REC	101	%	40-140
OP34851-BS1	72-43-5	Methoxychlor	BSP	REC	125	%	40-140
OP34851-BS1	53494-70-5	Endrin ketone	BSP	REC	109	%	40-140
OP34851-BS1	877-09-8	Tetrachloro-m-xylene (sig#1)	BSP	SURR	96	%	30-150

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP34851-BS1	877-09-8	Tetrachloro-m-xylene (sig#2)	BSP	SURR	91	%	30-150
OP34851-BS1	2051-24-3	Decachlorobiphenyl (sig#1)	BSP	SURR	104	%	30-150
OP34851-BS1	2051-24-3	Decachlorobiphenyl (sig#2)	BSP	SURR	104	%	30-150
OP34851-MS	309-00-2	Aldrin	MS	REC	103	%	30-150
OP34851-MS	15972-60-8	Alachlor	MS	REC	114	%	30-150
OP34851-MS	319-84-6	alpha-BHC	MS	REC	98	%	30-150
OP34851-MS	319-85-7	beta-BHC	MS	REC	206 [b]	%	30-150
OP34851-MS	319-86-8	delta-BHC	MS	REC	100	%	30-150
OP34851-MS	58-89-9	gamma-BHC (Lindane)	MS	REC	96	%	30-150
OP34851-MS	60-57-1	Dieldrin	MS	REC	93	%	30-150
OP34851-MS	72-54-8	4,4'-DDD	MS	REC	118	%	30-150
OP34851-MS	72-55-9	4,4'-DDE	MS	REC	91	%	30-150
OP34851-MS	50-29-3	4,4'-DDT	MS	REC	120	%	30-150
OP34851-MS	72-20-8	Endrin	MS	REC	113	%	30-150
OP34851-MS	1031-07-8	Endosulfan sulfate	MS	REC	67	%	30-150
OP34851-MS	7421-93-4	Endrin aldehyde	MS	REC	115	%	30-150
OP34851-MS	959-98-8	Endosulfan-I	MS	REC	85	%	30-150
OP34851-MS	33213-65-9	Endosulfan-II	MS	REC	94	%	30-150
OP34851-MS	76-44-8	Heptachlor	MS	REC	91	%	30-150
OP34851-MS	1024-57-3	Heptachlor epoxide	MS	REC	96	%	30-150
OP34851-MS	72-43-5	Methoxychlor	MS	REC	108	%	30-150
OP34851-MS	53494-70-5	Endrin ketone	MS	REC	150	%	30-150
OP34851-MS	877-09-8	Tetrachloro-m-xylene (sig#1)	MS	SURR	92	%	30-150
OP34851-MS	877-09-8	Tetrachloro-m-xylene (sig#2)	MS	SURR	100	%	30-150
OP34851-MS	2051-24-3	Decachlorobiphenyl (sig#1)	MS	SURR	98	%	30-150
OP34851-MS	2051-24-3	Decachlorobiphenyl (sig#2)	MS	SURR	180 [b]	%	30-150
OP34851-MSD	309-00-2	Aldrin	MSD	REC	104	%	30-150
OP34851-MSD	309-00-2	Aldrin	MSD	RPD	5	%	30
OP34851-MSD	15972-60-8	Alachlor	MSD	REC	121	%	30-150
OP34851-MSD	15972-60-8	Alachlor	MSD	RPD	9	%	30
OP34851-MSD	319-84-6	alpha-BHC	MSD	REC	90	%	30-150
OP34851-MSD	319-84-6	alpha-BHC	MSD	RPD	6	%	30
OP34851-MSD	319-85-7	beta-BHC	MSD	REC	311 [b]	%	30-150
OP34851-MSD	319-85-7	beta-BHC	MSD	RPD	44	%	30
OP34851-MSD	319-86-8	delta-BHC	MSD	REC	94	%	30-150
OP34851-MSD	319-86-8	delta-BHC	MSD	RPD	3	%	30
OP34851-MSD	58-89-9	gamma-BHC (Lindane)	MSD	REC	94	%	30-150
OP34851-MSD	58-89-9	gamma-BHC (Lindane)	MSD	RPD	2	%	30
OP34851-MSD	12789-03-6	Chlordane	MSD	RPD	0	%	30
OP34851-MSD	60-57-1	Dieldrin	MSD	REC	91	%	30-150
OP34851-MSD	60-57-1	Dieldrin	MSD	RPD	1	%	30
OP34851-MSD	72-54-8	4,4'-DDD	MSD	REC	116	%	30-150
OP34851-MSD	72-54-8	4,4'-DDD	MSD	RPD	2	%	30
OP34851-MSD	72-55-9	4,4'-DDE	MSD	REC	90	%	30-150
OP34851-MSD	72-55-9	4,4'-DDE	MSD	RPD	2	%	30

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP34851-MSD	50-29-3	4,4'-DDT	MSD	REC	128	%	30-150
OP34851-MSD	50-29-3	4,4'-DDT	MSD	RPD	8	%	30
OP34851-MSD	72-20-8	Endrin	MSD	REC	101	%	30-150
OP34851-MSD	72-20-8	Endrin	MSD	RPD	8	%	30
OP34851-MSD	1031-07-8	Endosulfan sulfate	MSD	REC	62	%	30-150
OP34851-MSD	1031-07-8	Endosulfan sulfate	MSD	RPD	4	%	30
OP34851-MSD	7421-93-4	Endrin aldehyde	MSD	REC	124	%	30-150
OP34851-MSD	7421-93-4	Endrin aldehyde	MSD	RPD	11	%	30
OP34851-MSD	959-98-8	Endosulfan-I	MSD	REC	109	%	30-150
OP34851-MSD	959-98-8	Endosulfan-I	MSD	RPD	28	%	30
OP34851-MSD	33213-65-9	Endosulfan-II	MSD	REC	88	%	30-150
OP34851-MSD	33213-65-9	Endosulfan-II	MSD	RPD	3	%	30
OP34851-MSD	76-44-8	Heptachlor	MSD	REC	81	%	30-150
OP34851-MSD	76-44-8	Heptachlor	MSD	RPD	8	%	30
OP34851-MSD	1024-57-3	Heptachlor epoxide	MSD	REC	100	%	30-150
OP34851-MSD	1024-57-3	Heptachlor epoxide	MSD	RPD	8	%	30
OP34851-MSD	72-43-5	Methoxychlor	MSD	REC	114	%	30-150
OP34851-MSD	72-43-5	Methoxychlor	MSD	RPD	9	%	30
OP34851-MSD	53494-70-5	Endrin ketone	MSD	REC	179	%	30-150
OP34851-MSD	53494-70-5	Endrin ketone	MSD	RPD	22	%	30
OP34851-MSD	8001-35-2	Toxaphene	MSD	RPD	0	%	30
OP34851-MSD	877-09-8	Tetrachloro-m-xylene (sig#1)	MSD	SURR	86	%	30-150
OP34851-MSD	877-09-8	Tetrachloro-m-xylene (sig#2)	MSD	SURR	93	%	30-150
OP34851-MSD	2051-24-3	Decachlorobiphenyl (sig#1)	MSD	SURR	98	%	30-150
OP34851-MSD	2051-24-3	Decachlorobiphenyl (sig#2)	MSD	SURR	193 [b]	%	30-150
OP34851-MB1	877-09-8	Tetrachloro-m-xylene (sig#1)	MB	SURR	98	%	30-150
OP34851-MB1	877-09-8	Tetrachloro-m-xylene (sig#1)	MB	SURR	118	%	30-150
OP34851-MB1	877-09-8	Tetrachloro-m-xylene (sig#2)	MB	SURR	105	%	30-150
OP34851-MB1	877-09-8	Tetrachloro-m-xylene (sig#2)	MB	SURR	105	%	30-150
OP34851-MB1	2051-24-3	Decachlorobiphenyl (sig#1)	MB	SURR	96	%	30-150
OP34851-MB1	2051-24-3	Decachlorobiphenyl (sig#1)	MB	SURR	120	%	30-150
OP34851-MB1	2051-24-3	Decachlorobiphenyl (sig#2)	MB	SURR	124	%	30-150
OP34851-MB1	2051-24-3	Decachlorobiphenyl (sig#2)	MB	SURR	119	%	30-150
JD29693-16	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	61	%	30-150
JD29693-16	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	67	%	30-150
JD29693-16	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	59	%	30-150
JD29693-16	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	73	%	30-150
JD29693-17	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	63	%	30-150
JD29693-17	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	69	%	30-150
JD29693-17	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	65	%	30-150
JD29693-17	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	226 [b]	%	30-150
JD29693-18	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	61	%	30-150
JD29693-18	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	55	%	30-150
JD29693-18	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	63	%	30-150
JD29693-18	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	59	%	30-150

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD29693-18	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	61	%	30-150
JD29693-18	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	74	%	30-150
JD29693-18	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	119	%	30-150
JD29693-18	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	124	%	30-150
JD29693-19	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	73	%	30-150
JD29693-19	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	80	%	30-150
JD29693-19	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	84	%	30-150
JD29693-19	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	131	%	30-150
JD29693-20	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	73	%	30-150
JD29693-20	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	76	%	30-150
JD29693-20	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	69	%	30-150
JD29693-20	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	86	%	30-150
JD29693-21	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	66	%	30-150
JD29693-21	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	69	%	30-150
JD29693-21	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	56	%	30-150
JD29693-21	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	194 [b]	%	30-150
JD29693-22	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	81	%	30-150
JD29693-22	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	87	%	30-150
JD29693-22	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	83	%	30-150
JD29693-22	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	189 [b]	%	30-150
OP34852	SW846 8082A						
OP34852-BS1	12674-11-2	Aroclor 1016	BSP	REC	139	%	40-140
OP34852-BS1	11096-82-5	Aroclor 1260	BSP	REC	136	%	40-140
OP34852-BS1	877-09-8	Tetrachloro-m-xylene (sig#1)	BSP	SURR	95	%	30-150
OP34852-BS1	877-09-8	Tetrachloro-m-xylene (sig#2)	BSP	SURR	94	%	30-150
OP34852-BS1	2051-24-3	Decachlorobiphenyl (sig#1)	BSP	SURR	117	%	30-150
OP34852-BS1	2051-24-3	Decachlorobiphenyl (sig#2)	BSP	SURR	103	%	30-150
OP34852-MS	12674-11-2	Aroclor 1016	MS	REC	122	%	40-140
OP34852-MS	11096-82-5	Aroclor 1260	MS	REC	134	%	40-140
OP34852-MS	877-09-8	Tetrachloro-m-xylene (sig#1)	MS	SURR	95	%	30-150
OP34852-MS	877-09-8	Tetrachloro-m-xylene (sig#2)	MS	SURR	97	%	30-150
OP34852-MS	2051-24-3	Decachlorobiphenyl (sig#1)	MS	SURR	103	%	30-150
OP34852-MS	2051-24-3	Decachlorobiphenyl (sig#2)	MS	SURR	98	%	30-150
OP34852-MSD	12674-11-2	Aroclor 1016	MSD	REC	111	%	40-140
OP34852-MSD	12674-11-2	Aroclor 1016	MSD	RPD	7	%	50
OP34852-MSD	11104-28-2	Aroclor 1221	MSD	RPD	0	%	50
OP34852-MSD	11141-16-5	Aroclor 1232	MSD	RPD	0	%	50
OP34852-MSD	53469-21-9	Aroclor 1242	MSD	RPD	0	%	50
OP34852-MSD	12672-29-6	Aroclor 1248	MSD	RPD	0	%	50
OP34852-MSD	11097-69-1	Aroclor 1254	MSD	RPD	0	%	50
OP34852-MSD	11096-82-5	Aroclor 1260	MSD	REC	120	%	40-140
OP34852-MSD	11096-82-5	Aroclor 1260	MSD	RPD	8	%	50
OP34852-MSD	11100-14-4	Aroclor 1268	MSD	RPD	0	%	50

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP34852-MSD	37324-23-5	Aroclor 1262	MSD	RPD	0	%	50
OP34852-MSD	877-09-8	Tetrachloro-m-xylene (sig#1)	MSD	SURR	85	%	30-150
OP34852-MSD	877-09-8	Tetrachloro-m-xylene (sig#2)	MSD	SURR	85	%	30-150
OP34852-MSD	2051-24-3	Decachlorobiphenyl (sig#1)	MSD	SURR	95	%	30-150
OP34852-MSD	2051-24-3	Decachlorobiphenyl (sig#2)	MSD	SURR	87	%	30-150
OP34852-MB1	877-09-8	Tetrachloro-m-xylene (sig#1)	MB	SURR	95	%	30-150
OP34852-MB1	877-09-8	Tetrachloro-m-xylene (sig#2)	MB	SURR	94	%	30-150
OP34852-MB1	2051-24-3	Decachlorobiphenyl (sig#1)	MB	SURR	115	%	30-150
OP34852-MB1	2051-24-3	Decachlorobiphenyl (sig#2)	MB	SURR	104	%	30-150
JD29693-15	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	66	%	30-150
JD29693-15	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	65	%	30-150
JD29693-15	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	213 [b]	%	30-150
JD29693-15	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	79	%	30-150
JD29693-16	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	88	%	30-150
JD29693-16	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	86	%	30-150
JD29693-16	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	99	%	30-150
JD29693-16	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	76	%	30-150
JD29693-17	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	87	%	30-150
JD29693-17	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	86	%	30-150
JD29693-17	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	164 [g]	%	30-150
JD29693-17	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	82	%	30-150
JD29693-18	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	91	%	30-150
JD29693-18	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	91	%	30-150
JD29693-18	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	103	%	30-150
JD29693-18	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	81	%	30-150
JD29693-19	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	86	%	30-150
JD29693-19	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	95	%	30-150
JD29693-19	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	100	%	30-150
JD29693-19	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	94	%	30-150
JD29693-20	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	79	%	30-150
JD29693-20	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	78	%	30-150
JD29693-20	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	98	%	30-150
JD29693-20	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	79	%	30-150
JD29693-21	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	88	%	30-150
JD29693-21	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	87	%	30-150
JD29693-21	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	114	%	30-150
JD29693-21	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	76	%	30-150
JD29693-22	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	91	%	30-150
JD29693-22	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	89	%	30-150
JD29693-22	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	99	%	30-150
JD29693-22	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	77	%	30-150
OP34955	SW846 8082A						
OP34955-BS1	12674-11-2	Aroclor 1016	BSP	REC	116	%	40-140

* Sample used for QC is not from job JD29693

QC Evaluation: CT RCP Limits

Job Number: JD29693
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP34955-BS1	11096-82-5	Aroclor 1260	BSP	REC	124	%	40-140
OP34955-BS1	877-09-8	Tetrachloro-m-xylene (sig#1)	BSP	SURR	119	%	30-150
OP34955-BS1	877-09-8	Tetrachloro-m-xylene (sig#2)	BSP	SURR	119	%	30-150
OP34955-BS1	2051-24-3	Decachlorobiphenyl (sig#1)	BSP	SURR	120	%	30-150
OP34955-BS1	2051-24-3	Decachlorobiphenyl (sig#2)	BSP	SURR	124	%	30-150
OP34955-MB1	877-09-8	Tetrachloro-m-xylene (sig#1)	MB	SURR	124	%	30-150
OP34955-MB1	877-09-8	Tetrachloro-m-xylene (sig#2)	MB	SURR	120	%	30-150
OP34955-MB1	2051-24-3	Decachlorobiphenyl (sig#1)	MB	SURR	127	%	30-150
OP34955-MB1	2051-24-3	Decachlorobiphenyl (sig#2)	MB	SURR	128	%	30-150
JD29693-1	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	117	%	30-150
JD29693-1	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	111	%	30-150
JD29693-1	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	114	%	30-150
JD29693-1	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	105	%	30-150
JD29693-1	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	153	%	30-150
JD29693-1	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	159	%	30-150
JD29693-1	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	179 [b]	%	30-150
JD29693-1	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	162	%	30-150
JD29693-3	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	132	%	30-150
JD29693-3	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	118	%	30-150
JD29693-3	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	123	%	30-150
JD29693-3	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	140	%	30-150
JD29693-7	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	125	%	30-150
JD29693-7	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	127	%	30-150
JD29693-7	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	118	%	30-150
JD29693-7	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	145	%	30-150
JD29693-8	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	111	%	30-150
JD29693-8	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	113	%	30-150
JD29693-8	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	113	%	30-150
JD29693-8	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	143	%	30-150

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Outside control limits due to matrix interference.
(c) Outside of in house control limits.
(d) Outside of in house control limits due to dilution, but within reasonable method recovery limits.
(e) Outside of in house control limits but within RCP criteria limits.
(f) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.
(g) Outside program requirements due to matrix interference.

* Sample used for QC is not from job JD29693

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7850-MB	1C180080.D	1	08/12/21	PS	n/a	n/a	V1C7850

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-12

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/kg	
107-13-1	Acrylonitrile	ND	10	ug/kg	
71-43-2	Benzene	ND	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	ug/kg	
75-25-2	Bromoform	ND	5.0	ug/kg	
74-83-9	Bromomethane	ND	5.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	ug/kg	
104-51-8	n-Butylbenzene	ND	2.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.0	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	ug/kg	
67-66-3	Chloroform	ND	2.0	ug/kg	
74-87-3	Chloromethane	ND	5.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/kg	

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7850-MB	1C180080.D	1	08/12/21	PS	n/a	n/a	V1C7850

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-12

CAS No.	Compound	Result	RL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	ug/kg	
76-13-1	Freon 113	ND	5.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/kg	
591-78-6	2-Hexanone	ND	5.0	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	ug/kg	
75-09-2	Methylene chloride	ND	5.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	ug/kg	
103-65-1	n-Propylbenzene	ND	2.0	ug/kg	
100-42-5	Styrene	ND	2.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	ug/kg	
109-99-9	Tetrahydrofuran	ND	10	ug/kg	
108-88-3	Toluene	ND	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/kg	
79-01-6	Trichloroethene	ND	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	ug/kg	
	m,p-Xylene	ND	1.0	ug/kg	
95-47-6	o-Xylene	ND	1.0	ug/kg	

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7850-MB	1C180080.D	1	08/12/21	PS	n/a	n/a	V1C7850

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-12

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	72-130%
17060-07-0	1,2-Dichloroethane-D4	101%	75-131%
2037-26-5	Toluene-D8	105%	81-121%
460-00-4	4-Bromofluorobenzene	101%	60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7851-MB	1C180109.D	1	08/13/21	TDN	n/a	n/a	V1C7851

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-11, JD29693-13, JD29693-15, JD29693-16, JD29693-17, JD29693-20, JD29693-21, JD29693-22

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/kg	
107-13-1	Acrylonitrile	ND	10	ug/kg	
71-43-2	Benzene	ND	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	ug/kg	
75-25-2	Bromoform	ND	5.0	ug/kg	
74-83-9	Bromomethane	ND	5.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	ug/kg	
104-51-8	n-Butylbenzene	ND	2.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.0	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	ug/kg	
67-66-3	Chloroform	ND	2.0	ug/kg	
74-87-3	Chloromethane	ND	5.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/kg	

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7851-MB	1C180109.D	1	08/13/21	TDN	n/a	n/a	V1C7851

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-11, JD29693-13, JD29693-15, JD29693-16, JD29693-17, JD29693-20, JD29693-21, JD29693-22

CAS No.	Compound	Result	RL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	ug/kg	
76-13-1	Freon 113	ND	5.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/kg	
591-78-6	2-Hexanone	ND	5.0	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	ug/kg	
75-09-2	Methylene chloride	ND	5.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	ug/kg	
103-65-1	n-Propylbenzene	ND	2.0	ug/kg	
100-42-5	Styrene	ND	2.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	ug/kg	
109-99-9	Tetrahydrofuran	ND	10	ug/kg	
108-88-3	Toluene	ND	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/kg	
79-01-6	Trichloroethene	ND	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	ug/kg	
	m,p-Xylene	ND	1.0	ug/kg	
95-47-6	o-Xylene	ND	1.0	ug/kg	

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7851-MB	1C180109.D	1	08/13/21	TDN	n/a	n/a	V1C7851

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-11, JD29693-13, JD29693-15, JD29693-16, JD29693-17, JD29693-20, JD29693-21, JD29693-22

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	106%	72-130%
17060-07-0	1,2-Dichloroethane-D4	109%	75-131%
2037-26-5	Toluene-D8	103%	81-121%
460-00-4	4-Bromofluorobenzene	100%	60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7853-MB	1C180169.D	1	08/16/21	PS	n/a	n/a	V1C7853

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-19

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/kg	
107-13-1	Acrylonitrile	ND	10	ug/kg	
71-43-2	Benzene	ND	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	ug/kg	
75-25-2	Bromoform	ND	5.0	ug/kg	
74-83-9	Bromomethane	ND	5.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	ug/kg	
104-51-8	n-Butylbenzene	ND	2.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.0	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	ug/kg	
67-66-3	Chloroform	ND	2.0	ug/kg	
74-87-3	Chloromethane	ND	5.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/kg	

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7853-MB	1C180169.D	1	08/16/21	PS	n/a	n/a	V1C7853

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-19

CAS No.	Compound	Result	RL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	ug/kg	
76-13-1	Freon 113	ND	5.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/kg	
591-78-6	2-Hexanone	ND	5.0	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	ug/kg	
75-09-2	Methylene chloride	ND	5.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	ug/kg	
103-65-1	n-Propylbenzene	ND	2.0	ug/kg	
100-42-5	Styrene	ND	2.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	ug/kg	
109-99-9	Tetrahydrofuran	ND	10	ug/kg	
108-88-3	Toluene	ND	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/kg	
79-01-6	Trichloroethene	ND	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	ug/kg	
	m,p-Xylene	ND	1.0	ug/kg	
95-47-6	o-Xylene	ND	1.0	ug/kg	

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7853-MB	1C180169.D	1	08/16/21	PS	n/a	n/a	V1C7853

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-19

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	104%	72-130%
17060-07-0	1,2-Dichloroethane-D4	105%	75-131%
2037-26-5	Toluene-D8	103%	81-121%
460-00-4	4-Bromofluorobenzene	101%	60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7854-MB	1C180199.D	1	08/17/21	PS	n/a	n/a	V1C7854

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-18

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/kg	
107-13-1	Acrylonitrile	ND	10	ug/kg	
71-43-2	Benzene	ND	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	ug/kg	
75-25-2	Bromoform	ND	5.0	ug/kg	
74-83-9	Bromomethane	ND	5.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	ug/kg	
104-51-8	n-Butylbenzene	ND	2.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.0	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	ug/kg	
67-66-3	Chloroform	ND	2.0	ug/kg	
74-87-3	Chloromethane	ND	5.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/kg	

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7854-MB	1C180199.D	1	08/17/21	PS	n/a	n/a	V1C7854

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-18

CAS No.	Compound	Result	RL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	ug/kg	
76-13-1	Freon 113	ND	5.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/kg	
591-78-6	2-Hexanone	ND	5.0	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	ug/kg	
75-09-2	Methylene chloride	ND	5.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	ug/kg	
103-65-1	n-Propylbenzene	ND	2.0	ug/kg	
100-42-5	Styrene	ND	2.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	ug/kg	
109-99-9	Tetrahydrofuran	ND	10	ug/kg	
108-88-3	Toluene	ND	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/kg	
79-01-6	Trichloroethene	ND	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	ug/kg	
	m,p-Xylene	ND	1.0	ug/kg	
95-47-6	o-Xylene	ND	1.0	ug/kg	

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7854-MB	1C180199.D	1	08/17/21	PS	n/a	n/a	V1C7854

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-18

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	105%	72-130%
17060-07-0	1,2-Dichloroethane-D4	108%	75-131%
2037-26-5	Toluene-D8	103%	81-121%
460-00-4	4-Bromofluorobenzene	101%	60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7860-MB	1C180384.D	1	08/23/21	PS	n/a	n/a	V1C7860

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-14

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/kg	
107-13-1	Acrylonitrile	ND	10	ug/kg	
71-43-2	Benzene	ND	0.50	ug/kg	
108-86-1	Bromobenzene	ND	5.0	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	ug/kg	
75-25-2	Bromoform	ND	5.0	ug/kg	
74-83-9	Bromomethane	ND	5.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	ug/kg	
104-51-8	n-Butylbenzene	ND	2.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	2.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	2.0	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	ug/kg	
67-66-3	Chloroform	ND	2.0	ug/kg	
74-87-3	Chloromethane	ND	5.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	2.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	2.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/kg	
110-57-6	Trans-1,4-Dichloro-2-Butene	ND	5.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	2.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	2.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	2.0	ug/kg	

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7860-MB	1C180384.D	1	08/23/21	PS	n/a	n/a	V1C7860

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-14

CAS No.	Compound	Result	RL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	ug/kg	
76-13-1	Freon 113	ND	5.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	5.0	ug/kg	
591-78-6	2-Hexanone	ND	5.0	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/kg	
74-95-3	Methylene bromide	ND	5.0	ug/kg	
75-09-2	Methylene chloride	ND	5.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	ug/kg	
103-65-1	n-Propylbenzene	ND	2.0	ug/kg	
100-42-5	Styrene	ND	2.0	ug/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	ug/kg	
109-99-9	Tetrahydrofuran	ND	10	ug/kg	
108-88-3	Toluene	ND	1.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/kg	
79-01-6	Trichloroethene	ND	1.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	ug/kg	
	m,p-Xylene	ND	1.0	ug/kg	
95-47-6	o-Xylene	ND	1.0	ug/kg	

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7860-MB	1C180384.D	1	08/23/21	PS	n/a	n/a	V1C7860

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-14

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	72-130%
17060-07-0	1,2-Dichloroethane-D4	103%	75-131%
2037-26-5	Toluene-D8	103%	81-121%
460-00-4	4-Bromofluorobenzene	97%	60-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7850-BS	1C180078.D	1	08/12/21	PS	n/a	n/a	V1C7850

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-12

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	200	171	86	67-130
107-13-1	Acrylonitrile	50	48.2	96	69-135
71-43-2	Benzene	50	48.0	96	80-115
108-86-1	Bromobenzene	50	47.4	95	80-116
75-27-4	Bromodichloromethane	50	48.0	96	83-121
75-25-2	Bromoform	50	46.1	92	80-141
74-83-9	Bromomethane	50	46.0	92	56-146
78-93-3	2-Butanone (MEK)	200	204	102	72-134
104-51-8	n-Butylbenzene	50	48.2	96	73-124
135-98-8	sec-Butylbenzene	50	48.0	96	73-121
98-06-6	tert-Butylbenzene	50	48.4	97	74-122
75-15-0	Carbon disulfide	50	49.9	100	65-125
56-23-5	Carbon tetrachloride	50	50.0	100	75-126
108-90-7	Chlorobenzene	50	47.0	94	81-115
75-00-3	Chloroethane	50	51.6	103	72-133
67-66-3	Chloroform	50	47.1	94	75-114
74-87-3	Chloromethane	50	49.4	99	57-135
95-49-8	o-Chlorotoluene	50	47.8	96	78-117
106-43-4	p-Chlorotoluene	50	45.9	92	77-114
96-12-8	1,2-Dibromo-3-chloropropane	50	51.9	104	72-129
124-48-1	Dibromochloromethane	50	48.0	96	82-133
106-93-4	1,2-Dibromoethane	50	48.6	97	81-126
95-50-1	1,2-Dichlorobenzene	50	47.4	95	83-114
541-73-1	1,3-Dichlorobenzene	50	47.7	95	81-112
106-46-7	1,4-Dichlorobenzene	50	45.6	91	79-113
110-57-6	Trans-1,4-Dichloro-2-Butene	50	49.1	98	70-132
75-71-8	Dichlorodifluoromethane	50	46.4	93	50-150
75-34-3	1,1-Dichloroethane	50	52.2	104	75-120
107-06-2	1,2-Dichloroethane	50	44.9	90	72-117
75-35-4	1,1-Dichloroethene	50	48.1	96	69-124
156-59-2	cis-1,2-Dichloroethene	50	47.7	95	73-119
156-60-5	trans-1,2-Dichloroethene	50	47.9	96	70-123
78-87-5	1,2-Dichloropropane	50	49.4	99	80-118
142-28-9	1,3-Dichloropropane	50	47.9	96	81-116
594-20-7	2,2-Dichloropropane	50	49.2	98	74-126
563-58-6	1,1-Dichloropropene	50	51.8	104	75-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7850-BS	1C180078.D	1	08/12/21	PS	n/a	n/a	V1C7850

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-12

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	47.8	96	83-121
10061-02-6	trans-1,3-Dichloropropene	50	49.7	99	83-125
100-41-4	Ethylbenzene	50	46.2	92	80-114
76-13-1	Freon 113	50	50.2	100	69-130
87-68-3	Hexachlorobutadiene	50	50.3	101	71-125
591-78-6	2-Hexanone	200	198	99	77-126
98-82-8	Isopropylbenzene	50	46.6	93	76-121
99-87-6	p-Isopropyltoluene	50	47.9	96	74-122
1634-04-4	Methyl Tert Butyl Ether	50	49.6	99	76-127
108-10-1	4-Methyl-2-pentanone(MIBK)	200	187	94	75-129
74-95-3	Methylene bromide	50	46.3	93	83-119
75-09-2	Methylene chloride	50	47.3	95	71-120
91-20-3	Naphthalene	50	48.6	97	73-131
103-65-1	n-Propylbenzene	50	47.4	95	74-116
100-42-5	Styrene	50	45.6	91	83-118
630-20-6	1,1,1,2-Tetrachloroethane	50	46.5	93	82-128
79-34-5	1,1,2,2-Tetrachloroethane	50	47.8	96	76-120
127-18-4	Tetrachloroethene	50	48.1	96	75-125
109-99-9	Tetrahydrofuran	50	49.9	100	64-127
108-88-3	Toluene	50	46.7	93	79-115
87-61-6	1,2,3-Trichlorobenzene	50	49.7	99	75-131
120-82-1	1,2,4-Trichlorobenzene	50	48.6	97	76-130
71-55-6	1,1,1-Trichloroethane	50	50.1	100	77-122
79-00-5	1,1,2-Trichloroethane	50	48.7	97	82-119
79-01-6	Trichloroethene	50	48.5	97	82-119
75-69-4	Trichlorofluoromethane	50	50.2	100	70-134
96-18-4	1,2,3-Trichloropropane	50	49.5	99	80-118
95-63-6	1,2,4-Trimethylbenzene	50	48.3	97	77-116
108-67-8	1,3,5-Trimethylbenzene	50	48.0	96	76-118
75-01-4	Vinyl chloride	50	51.7	103	60-139
	m,p-Xylene	100	91.4	91	81-115
95-47-6	o-Xylene	50	46.9	94	82-117

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7850-BS	1C180078.D	1	08/12/21	PS	n/a	n/a	V1C7850

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-12

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	72-130%
17060-07-0	1,2-Dichloroethane-D4	102%	75-131%
2037-26-5	Toluene-D8	102%	81-121%
460-00-4	4-Bromofluorobenzene	103%	60-141%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7851-BS	1C180107.D	1	08/13/21	TDN	n/a	n/a	V1C7851

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-11, JD29693-13, JD29693-15, JD29693-16, JD29693-17, JD29693-20, JD29693-21, JD29693-22

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	200	182	91	67-130
107-13-1	Acrylonitrile	50	47.7	95	69-135
71-43-2	Benzene	50	46.4	93	80-115
108-86-1	Bromobenzene	50	45.1	90	80-116
75-27-4	Bromodichloromethane	50	48.3	97	83-121
75-25-2	Bromoform	50	47.2	94	80-141
74-83-9	Bromomethane	50	42.3	85	56-146
78-93-3	2-Butanone (MEK)	200	199	100	72-134
104-51-8	n-Butylbenzene	50	45.4	91	73-124
135-98-8	sec-Butylbenzene	50	44.1	88	73-121
98-06-6	tert-Butylbenzene	50	44.1	88	74-122
75-15-0	Carbon disulfide	50	47.6	95	65-125
56-23-5	Carbon tetrachloride	50	47.8	96	75-126
108-90-7	Chlorobenzene	50	45.1	90	81-115
75-00-3	Chloroethane	50	47.6	95	72-133
67-66-3	Chloroform	50	47.0	94	75-114
74-87-3	Chloromethane	50	45.3	91	57-135
95-49-8	o-Chlorotoluene	50	45.1	90	78-117
106-43-4	p-Chlorotoluene	50	43.4	87	77-114
96-12-8	1,2-Dibromo-3-chloropropane	50	48.0	96	72-129
124-48-1	Dibromochloromethane	50	48.2	96	82-133
106-93-4	1,2-Dibromoethane	50	49.1	98	81-126
95-50-1	1,2-Dichlorobenzene	50	45.5	91	83-114
541-73-1	1,3-Dichlorobenzene	50	46.0	92	81-112
106-46-7	1,4-Dichlorobenzene	50	43.9	88	79-113
110-57-6	Trans-1,4-Dichloro-2-Butene	50	48.7	97	70-132
75-71-8	Dichlorodifluoromethane	50	41.6	83	50-150
75-34-3	1,1-Dichloroethane	50	51.7	103	75-120
107-06-2	1,2-Dichloroethane	50	46.6	93	72-117
75-35-4	1,1-Dichloroethene	50	44.9	90	69-124
156-59-2	cis-1,2-Dichloroethene	50	46.4	93	73-119
156-60-5	trans-1,2-Dichloroethene	50	45.6	91	70-123
78-87-5	1,2-Dichloropropane	50	49.3	99	80-118
142-28-9	1,3-Dichloropropane	50	48.3	97	81-116
594-20-7	2,2-Dichloropropane	50	49.5	99	74-126
563-58-6	1,1-Dichloropropene	50	49.9	100	75-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7851-BS	1C180107.D	1	08/13/21	TDN	n/a	n/a	V1C7851

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-11, JD29693-13, JD29693-15, JD29693-16, JD29693-17, JD29693-20, JD29693-21, JD29693-22

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	48.6	97	83-121
10061-02-6	trans-1,3-Dichloropropene	50	51.4	103	83-125
100-41-4	Ethylbenzene	50	43.8	88	80-114
76-13-1	Freon 113	50	44.2	88	69-130
87-68-3	Hexachlorobutadiene	50	46.8	94	71-125
591-78-6	2-Hexanone	200	192	96	77-126
98-82-8	Isopropylbenzene	50	44.3	89	76-121
99-87-6	p-Isopropyltoluene	50	44.4	89	74-122
1634-04-4	Methyl Tert Butyl Ether	50	53.0	106	76-127
108-10-1	4-Methyl-2-pentanone(MIBK)	200	182	91	75-129
74-95-3	Methylene bromide	50	47.3	95	83-119
75-09-2	Methylene chloride	50	48.4	97	71-120
91-20-3	Naphthalene	50	46.6	93	73-131
103-65-1	n-Propylbenzene	50	43.5	87	74-116
100-42-5	Styrene	50	44.7	89	83-118
630-20-6	1,1,1,2-Tetrachloroethane	50	45.9	92	82-128
79-34-5	1,1,2,2-Tetrachloroethane	50	44.9	90	76-120
127-18-4	Tetrachloroethene	50	45.0	90	75-125
109-99-9	Tetrahydrofuran	50	49.1	98	64-127
108-88-3	Toluene	50	44.2	88	79-115
87-61-6	1,2,3-Trichlorobenzene	50	49.1	98	75-131
120-82-1	1,2,4-Trichlorobenzene	50	49.1	98	76-130
71-55-6	1,1,1-Trichloroethane	50	48.7	97	77-122
79-00-5	1,1,2-Trichloroethane	50	48.9	98	82-119
79-01-6	Trichloroethene	50	46.4	93	82-119
75-69-4	Trichlorofluoromethane	50	45.4	91	70-134
96-18-4	1,2,3-Trichloropropane	50	48.0	96	80-118
95-63-6	1,2,4-Trimethylbenzene	50	45.6	91	77-116
108-67-8	1,3,5-Trimethylbenzene	50	44.7	89	76-118
75-01-4	Vinyl chloride	50	46.5	93	60-139
	m,p-Xylene	100	88.3	88	81-115
95-47-6	o-Xylene	50	45.2	90	82-117

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7851-BS	1C180107.D	1	08/13/21	TDN	n/a	n/a	V1C7851

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-11, JD29693-13, JD29693-15, JD29693-16, JD29693-17, JD29693-20, JD29693-21, JD29693-22

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	106%	72-130%
17060-07-0	1,2-Dichloroethane-D4	105%	75-131%
2037-26-5	Toluene-D8	102%	81-121%
460-00-4	4-Bromofluorobenzene	101%	60-141%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7853-BS	1C180167.D	1	08/16/21	PS	n/a	n/a	V1C7853

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-19

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	200	186	93	67-130
107-13-1	Acrylonitrile	50	50.0	100	69-135
71-43-2	Benzene	50	48.1	96	80-115
108-86-1	Bromobenzene	50	46.8	94	80-116
75-27-4	Bromodichloromethane	50	50.1	100	83-121
75-25-2	Bromoform	50	47.1	94	80-141
74-83-9	Bromomethane	50	41.2	82	56-146
78-93-3	2-Butanone (MEK)	200	203	102	72-134
104-51-8	n-Butylbenzene	50	47.4	95	73-124
135-98-8	sec-Butylbenzene	50	46.1	92	73-121
98-06-6	tert-Butylbenzene	50	46.2	92	74-122
75-15-0	Carbon disulfide	50	49.3	99	65-125
56-23-5	Carbon tetrachloride	50	50.9	102	75-126
108-90-7	Chlorobenzene	50	46.6	93	81-115
75-00-3	Chloroethane	50	48.1	96	72-133
67-66-3	Chloroform	50	48.8	98	75-114
74-87-3	Chloromethane	50	42.7	85	57-135
95-49-8	o-Chlorotoluene	50	46.6	93	78-117
106-43-4	p-Chlorotoluene	50	44.5	89	77-114
96-12-8	1,2-Dibromo-3-chloropropane	50	48.7	97	72-129
124-48-1	Dibromochloromethane	50	49.0	98	82-133
106-93-4	1,2-Dibromoethane	50	48.6	97	81-126
95-50-1	1,2-Dichlorobenzene	50	47.0	94	83-114
541-73-1	1,3-Dichlorobenzene	50	47.4	95	81-112
106-46-7	1,4-Dichlorobenzene	50	45.0	90	79-113
110-57-6	Trans-1,4-Dichloro-2-Butene	50	47.7	95	70-132
75-71-8	Dichlorodifluoromethane	50	31.8	64	50-150
75-34-3	1,1-Dichloroethane	50	53.2	106	75-120
107-06-2	1,2-Dichloroethane	50	47.6	95	72-117
75-35-4	1,1-Dichloroethene	50	47.7	95	69-124
156-59-2	cis-1,2-Dichloroethene	50	48.3	97	73-119
156-60-5	trans-1,2-Dichloroethene	50	47.8	96	70-123
78-87-5	1,2-Dichloropropane	50	51.0	102	80-118
142-28-9	1,3-Dichloropropane	50	48.4	97	81-116
594-20-7	2,2-Dichloropropane	50	50.6	101	74-126
563-58-6	1,1-Dichloropropene	50	51.9	104	75-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7853-BS	1C180167.D	1	08/16/21	PS	n/a	n/a	V1C7853

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-19

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	49.8	100	83-121
10061-02-6	trans-1,3-Dichloropropene	50	51.9	104	83-125
100-41-4	Ethylbenzene	50	45.1	90	80-114
76-13-1	Freon 113	50	46.6	93	69-130
87-68-3	Hexachlorobutadiene	50	48.4	97	71-125
591-78-6	2-Hexanone	200	193	97	77-126
98-82-8	Isopropylbenzene	50	45.6	91	76-121
99-87-6	p-Isopropyltoluene	50	46.5	93	74-122
1634-04-4	Methyl Tert Butyl Ether	50	52.3	105	76-127
108-10-1	4-Methyl-2-pentanone(MIBK)	200	182	91	75-129
74-95-3	Methylene bromide	50	48.6	97	83-119
75-09-2	Methylene chloride	50	49.1	98	71-120
91-20-3	Naphthalene	50	45.9	92	73-131
103-65-1	n-Propylbenzene	50	44.8	90	74-116
100-42-5	Styrene	50	45.8	92	83-118
630-20-6	1,1,1,2-Tetrachloroethane	50	46.9	94	82-128
79-34-5	1,1,2,2-Tetrachloroethane	50	46.0	92	76-120
127-18-4	Tetrachloroethene	50	46.6	93	75-125
109-99-9	Tetrahydrofuran	50	47.5	95	64-127
108-88-3	Toluene	50	45.8	92	79-115
87-61-6	1,2,3-Trichlorobenzene	50	49.0	98	75-131
120-82-1	1,2,4-Trichlorobenzene	50	48.9	98	76-130
71-55-6	1,1,1-Trichloroethane	50	51.1	102	77-122
79-00-5	1,1,2-Trichloroethane	50	49.6	99	82-119
79-01-6	Trichloroethene	50	48.9	98	82-119
75-69-4	Trichlorofluoromethane	50	46.2	92	70-134
96-18-4	1,2,3-Trichloropropane	50	46.7	93	80-118
95-63-6	1,2,4-Trimethylbenzene	50	47.2	94	77-116
108-67-8	1,3,5-Trimethylbenzene	50	46.5	93	76-118
75-01-4	Vinyl chloride	50	45.3	91	60-139
	m,p-Xylene	100	90.3	90	81-115
95-47-6	o-Xylene	50	46.1	92	82-117

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7853-BS	1C180167.D	1	08/16/21	PS	n/a	n/a	V1C7853

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-19

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	105%	72-130%
17060-07-0	1,2-Dichloroethane-D4	105%	75-131%
2037-26-5	Toluene-D8	101%	81-121%
460-00-4	4-Bromofluorobenzene	102%	60-141%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7854-BS	1C180197.D	1	08/17/21	PS	n/a	n/a	V1C7854

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	200	183	92	67-130
107-13-1	Acrylonitrile	50	45.0	90	69-135
71-43-2	Benzene	50	46.6	93	80-115
108-86-1	Bromobenzene	50	45.8	92	80-116
75-27-4	Bromodichloromethane	50	48.5	97	83-121
75-25-2	Bromoform	50	48.4	97	80-141
74-83-9	Bromomethane	50	40.4	81	56-146
78-93-3	2-Butanone (MEK)	200	199	100	72-134
104-51-8	n-Butylbenzene	50	45.9	92	73-124
135-98-8	sec-Butylbenzene	50	44.5	89	73-121
98-06-6	tert-Butylbenzene	50	45.1	90	74-122
75-15-0	Carbon disulfide	50	46.6	93	65-125
56-23-5	Carbon tetrachloride	50	49.3	99	75-126
108-90-7	Chlorobenzene	50	46.2	92	81-115
75-00-3	Chloroethane	50	47.0	94	72-133
67-66-3	Chloroform	50	47.4	95	75-114
74-87-3	Chloromethane	50	42.0	84	57-135
95-49-8	o-Chlorotoluene	50	45.9	92	78-117
106-43-4	p-Chlorotoluene	50	43.4	87	77-114
96-12-8	1,2-Dibromo-3-chloropropane	50	48.9	98	72-129
124-48-1	Dibromochloromethane	50	49.3	99	82-133
106-93-4	1,2-Dibromoethane	50	50.2	100	81-126
95-50-1	1,2-Dichlorobenzene	50	46.5	93	83-114
541-73-1	1,3-Dichlorobenzene	50	47.0	94	81-112
106-46-7	1,4-Dichlorobenzene	50	44.5	89	79-113
110-57-6	Trans-1,4-Dichloro-2-Butene	50	48.6	97	70-132
75-71-8	Dichlorodifluoromethane	50	36.7	73	50-150
75-34-3	1,1-Dichloroethane	50	51.6	103	75-120
107-06-2	1,2-Dichloroethane	50	47.3	95	72-117
75-35-4	1,1-Dichloroethene	50	45.0	90	69-124
156-59-2	cis-1,2-Dichloroethene	50	46.7	93	73-119
156-60-5	trans-1,2-Dichloroethene	50	46.0	92	70-123
78-87-5	1,2-Dichloropropane	50	49.2	98	80-118
142-28-9	1,3-Dichloropropane	50	48.9	98	81-116
594-20-7	2,2-Dichloropropane	50	50.2	100	74-126
563-58-6	1,1-Dichloropropene	50	50.7	101	75-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7854-BS	1C180197.D	1	08/17/21	PS	n/a	n/a	V1C7854

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-18

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	48.3	97	83-121
10061-02-6	trans-1,3-Dichloropropene	50	52.0	104	83-125
100-41-4	Ethylbenzene	50	44.0	88	80-114
76-13-1	Freon 113	50	46.8	94	69-130
87-68-3	Hexachlorobutadiene	50	47.3	95	71-125
591-78-6	2-Hexanone	200	197	99	77-126
98-82-8	Isopropylbenzene	50	44.5	89	76-121
99-87-6	p-Isopropyltoluene	50	45.3	91	74-122
1634-04-4	Methyl Tert Butyl Ether	50	52.2	104	76-127
108-10-1	4-Methyl-2-pentanone(MIBK)	200	182	91	75-129
74-95-3	Methylene bromide	50	47.9	96	83-119
75-09-2	Methylene chloride	50	47.4	95	71-120
91-20-3	Naphthalene	50	46.7	93	73-131
103-65-1	n-Propylbenzene	50	43.8	88	74-116
100-42-5	Styrene	50	45.3	91	83-118
630-20-6	1,1,1,2-Tetrachloroethane	50	46.6	93	82-128
79-34-5	1,1,2,2-Tetrachloroethane	50	46.2	92	76-120
127-18-4	Tetrachloroethene	50	45.7	91	75-125
109-99-9	Tetrahydrofuran	50	48.9	98	64-127
108-88-3	Toluene	50	44.9	90	79-115
87-61-6	1,2,3-Trichlorobenzene	50	48.7	97	75-131
120-82-1	1,2,4-Trichlorobenzene	50	48.6	97	76-130
71-55-6	1,1,1-Trichloroethane	50	49.3	99	77-122
79-00-5	1,1,2-Trichloroethane	50	49.6	99	82-119
79-01-6	Trichloroethene	50	46.8	94	82-119
75-69-4	Trichlorofluoromethane	50	46.1	92	70-134
96-18-4	1,2,3-Trichloropropane	50	48.2	96	80-118
95-63-6	1,2,4-Trimethylbenzene	50	46.4	93	77-116
108-67-8	1,3,5-Trimethylbenzene	50	45.4	91	76-118
75-01-4	Vinyl chloride	50	44.5	89	60-139
	m,p-Xylene	100	88.4	88	81-115
95-47-6	o-Xylene	50	45.3	91	82-117

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7854-BS	1C180197.D	1	08/17/21	PS	n/a	n/a	V1C7854

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-18

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	107%	72-130%
17060-07-0	1,2-Dichloroethane-D4	108%	75-131%
2037-26-5	Toluene-D8	103%	81-121%
460-00-4	4-Bromofluorobenzene	101%	60-141%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7860-BS	1C180382.D	1	08/23/21	PS	n/a	n/a	V1C7860

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-14

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	200	179	90	67-130
107-13-1	Acrylonitrile	50	45.4	91	69-135
71-43-2	Benzene	50	48.6	97	80-115
108-86-1	Bromobenzene	50	47.7	95	80-116
75-27-4	Bromodichloromethane	50	48.8	98	83-121
75-25-2	Bromoform	50	48.6	97	80-141
74-83-9	Bromomethane	50	43.1	86	56-146
78-93-3	2-Butanone (MEK)	200	183	92	72-134
104-51-8	n-Butylbenzene	50	47.2	94	73-124
135-98-8	sec-Butylbenzene	50	46.9	94	73-121
98-06-6	tert-Butylbenzene	50	46.7	93	74-122
75-15-0	Carbon disulfide	50	50.9	102	65-125
56-23-5	Carbon tetrachloride	50	52.2	104	75-126
108-90-7	Chlorobenzene	50	48.3	97	81-115
75-00-3	Chloroethane	50	46.1	92	72-133
67-66-3	Chloroform	50	48.3	97	75-114
74-87-3	Chloromethane	50	42.8	86	57-135
95-49-8	o-Chlorotoluene	50	47.5	95	78-117
106-43-4	p-Chlorotoluene	50	44.9	90	77-114
96-12-8	1,2-Dibromo-3-chloropropane	50	46.6	93	72-129
124-48-1	Dibromochloromethane	50	49.8	100	82-133
106-93-4	1,2-Dibromoethane	50	49.6	99	81-126
95-50-1	1,2-Dichlorobenzene	50	48.2	96	83-114
541-73-1	1,3-Dichlorobenzene	50	49.0	98	81-112
106-46-7	1,4-Dichlorobenzene	50	46.7	93	79-113
110-57-6	Trans-1,4-Dichloro-2-Butene	50	45.2	90	70-132
75-71-8	Dichlorodifluoromethane	50	43.6	87	50-150
75-34-3	1,1-Dichloroethane	50	51.7	103	75-120
107-06-2	1,2-Dichloroethane	50	45.8	92	72-117
75-35-4	1,1-Dichloroethene	50	48.7	97	69-124
156-59-2	cis-1,2-Dichloroethene	50	47.6	95	73-119
156-60-5	trans-1,2-Dichloroethene	50	49.1	98	70-123
78-87-5	1,2-Dichloropropane	50	48.3	97	80-118
142-28-9	1,3-Dichloropropane	50	47.4	95	81-116
594-20-7	2,2-Dichloropropane	50	50.0	100	74-126
563-58-6	1,1-Dichloropropene	50	52.0	104	75-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7860-BS	1C180382.D	1	08/23/21	PS	n/a	n/a	V1C7860

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-14

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	48.3	97	83-121
10061-02-6	trans-1,3-Dichloropropene	50	51.6	103	83-125
100-41-4	Ethylbenzene	50	45.9	92	80-114
76-13-1	Freon 113	50	52.9	106	69-130
87-68-3	Hexachlorobutadiene	50	52.1	104	71-125
591-78-6	2-Hexanone	200	176	88	77-126
98-82-8	Isopropylbenzene	50	46.5	93	76-121
99-87-6	p-Isopropyltoluene	50	47.5	95	74-122
1634-04-4	Methyl Tert Butyl Ether	50	50.0	100	76-127
108-10-1	4-Methyl-2-pentanone(MIBK)	200	171	86	75-129
74-95-3	Methylene bromide	50	47.5	95	83-119
75-09-2	Methylene chloride	50	48.0	96	71-120
91-20-3	Naphthalene	50	46.4	93	73-131
103-65-1	n-Propylbenzene	50	45.3	91	74-116
100-42-5	Styrene	50	46.6	93	83-118
630-20-6	1,1,1,2-Tetrachloroethane	50	48.3	97	82-128
79-34-5	1,1,2,2-Tetrachloroethane	50	44.6	89	76-120
127-18-4	Tetrachloroethene	50	50.0	100	75-125
109-99-9	Tetrahydrofuran	50	42.3	85	64-127
108-88-3	Toluene	50	47.5	95	79-115
87-61-6	1,2,3-Trichlorobenzene	50	50.9	102	75-131
120-82-1	1,2,4-Trichlorobenzene	50	50.8	102	76-130
71-55-6	1,1,1-Trichloroethane	50	52.2	104	77-122
79-00-5	1,1,2-Trichloroethane	50	48.6	97	82-119
79-01-6	Trichloroethene	50	50.4	101	82-119
75-69-4	Trichlorofluoromethane	50	48.0	96	70-134
96-18-4	1,2,3-Trichloropropane	50	46.4	93	80-118
95-63-6	1,2,4-Trimethylbenzene	50	47.5	95	77-116
108-67-8	1,3,5-Trimethylbenzene	50	47.3	95	76-118
75-01-4	Vinyl chloride	50	46.6	93	60-139
	m,p-Xylene	100	92.3	92	81-115
95-47-6	o-Xylene	50	47.0	94	82-117

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1C7860-BS	1C180382.D	1	08/23/21	PS	n/a	n/a	V1C7860

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-14

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	72-130%
17060-07-0	1,2-Dichloroethane-D4	102%	75-131%
2037-26-5	Toluene-D8	102%	81-121%
460-00-4	4-Bromofluorobenzene	98%	60-141%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29693-19MS	1C180177.D	1	08/16/21	PS	n/a	n/a	V1C7853
JD29693-19MSD	1C180178.D	1	08/16/21	PS	n/a	n/a	V1C7853
JD29693-19	1C180171.D	1	08/16/21	PS	n/a	n/a	V1C7853

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-19

CAS No.	Compound	JD29693-19 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		164	125	76	164	118	72	6	31-142/24
107-13-1	Acrylonitrile	ND		40.9	33.2	81	40.9	31.0	76	7	51-133/19
71-43-2	Benzene	ND		40.9	35.1	86	40.9	33.4	82	5	62-126/15
108-86-1	Bromobenzene	ND		40.9	26.9	66	40.9	25.3	62	6	56-126/17
75-27-4	Bromodichloromethane	ND		40.9	36.6	89	40.9	34.4	84	6	63-132/15
75-25-2	Bromoform	ND		40.9	31.1	76	40.9	29.5	72	5	59-138/17
74-83-9	Bromomethane	ND		40.9	30.3	74	40.9	29.5	72	3	13-164/34
78-93-3	2-Butanone (MEK)	ND		164	138	84	164	133	81	4	51-135/20
104-51-8	n-Butylbenzene	ND		40.9	21.6	53	40.9	19.9	49	8	23-148/23
135-98-8	sec-Butylbenzene	ND		40.9	29.3	72	40.9	27.8	68	5	34-142/21
98-06-6	tert-Butylbenzene	ND		40.9	34.2	84	40.9	32.5	79	5	46-136/21
75-15-0	Carbon disulfide	ND		40.9	27.2	66	40.9	25.1	61	8	49-134/22
56-23-5	Carbon tetrachloride	ND		40.9	39.4	96	40.9	37.0	90	6	60-133/16
108-90-7	Chlorobenzene	ND		40.9	27.4	67	40.9	25.8	63	6	58-126/17
75-00-3	Chloroethane	ND		40.9	35.9	88	40.9	33.9	83	6	18-165/38
67-66-3	Chloroform	ND		40.9	37.0	90	40.9	35.0	85	6	60-125/14
74-87-3	Chloromethane	ND		40.9	32.4	79	40.9	31.6	77	2	43-145/16
95-49-8	o-Chlorotoluene	ND		40.9	29.5	72	40.9	27.3	67	8	53-128/18
106-43-4	p-Chlorotoluene	ND		40.9	23.5	57	40.9	21.8	53	8	49-126/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		40.9	32.4	79	40.9	29.9	73	8	43-133/18
124-48-1	Dibromochloromethane	ND		40.9	34.5	84	40.9	32.4	79	6	68-131/14
106-93-4	1,2-Dibromoethane	ND		40.9	30.9	75	40.9	29.5	72	5	63-127/14
95-50-1	1,2-Dichlorobenzene	ND		40.9	24.1	59	40.9	22.0	54	9	46-130/18
541-73-1	1,3-Dichlorobenzene	ND		40.9	22.6	55	40.9	20.5	50	10	45-129/19
106-46-7	1,4-Dichlorobenzene	ND		40.9	20.4	50	40.9	18.7	46	9	43-129/19
110-57-6	Trans-1,4-Dichloro-2-Butene	ND		40.9	24.6	60	40.9	24.2	59	2	35-142/18
75-71-8	Dichlorodifluoromethane	ND		40.9	24.5	60	40.9	23.9	58	2	35-157/16
75-34-3	1,1-Dichloroethane	ND		40.9	41.5	101	40.9	39.0	95	6	63-130/14
107-06-2	1,2-Dichloroethane	ND		40.9	34.3	84	40.9	32.7	80	5	61-118/14
75-35-4	1,1-Dichloroethene	ND		40.9	33.0	81	40.9	31.0	76	6	55-135/15
156-59-2	cis-1,2-Dichloroethene	ND		40.9	31.6	77	40.9	30.5	74	4	55-131/15
156-60-5	trans-1,2-Dichloroethene	ND		40.9	29.3	72	40.9	27.7	68	6	54-135/16
78-87-5	1,2-Dichloropropane	ND		40.9	39.1	95	40.9	36.7	90	6	68-123/14
142-28-9	1,3-Dichloropropane	ND		40.9	33.8	83	40.9	32.7	80	3	67-119/15
594-20-7	2,2-Dichloropropane	ND		40.9	36.9	90	40.9	35.0	85	5	50-131/15
563-58-6	1,1-Dichloropropene	ND		40.9	33.6	82	40.9	31.2	76	7	60-129/17

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29693-19MS	1C180177.D	1	08/16/21	PS	n/a	n/a	V1C7853
JD29693-19MSD	1C180178.D	1	08/16/21	PS	n/a	n/a	V1C7853
JD29693-19	1C180171.D	1	08/16/21	PS	n/a	n/a	V1C7853

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-19

CAS No.	Compound	JD29693-19 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		40.9	30.8	75	40.9	29.1	71	6	65-123/16
10061-02-6	trans-1,3-Dichloropropene	ND		40.9	28.6	70	40.9	28.0	68	2	63-128/15
100-41-4	Ethylbenzene	ND		40.9	29.6	72	40.9	28.0	68	6	48-135/17
76-13-1	Freon 113	ND		40.9	35.9	88	40.9	34.4	84	4	51-138/17
87-68-3	Hexachlorobutadiene	ND		40.9	24.6	60	40.9	22.0	54	11	10-151/30
591-78-6	2-Hexanone	ND		164	129	79	164	122	74	6	55-127/16
98-82-8	Isopropylbenzene	ND		40.9	30.8	75	40.9	28.9	71	6	46-139/19
99-87-6	p-Isopropyltoluene	ND		40.9	29.0	71	40.9	27.1	66	7	36-142/21
1634-04-4	Methyl Tert Butyl Ether	ND		40.9	41.6	102	40.9	41.2	101	1	62-128/13
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		164	133	81	164	125	76	6	59-125/18
74-95-3	Methylene bromide	ND		40.9	31.2	76	40.9	29.7	73	5	68-120/15
75-09-2	Methylene chloride	ND		40.9	36.0	88	40.9	34.6	85	4	59-127/14
91-20-3	Naphthalene	ND		40.9	15.2	37	40.9	13.0	32	16	10-160/31
103-65-1	n-Propylbenzene	ND		40.9	27.9	68	40.9	26.3	64	6	35-140/19
100-42-5	Styrene	ND		40.9	25.5	62	40.9	23.4	57	9	52-136/18
630-20-6	1,1,1,2-Tetrachloroethane	ND		40.9	36.3	89	40.9	34.7	85	5	68-132/17
79-34-5	1,1,2,2-Tetrachloroethane	ND		40.9	33.4	82	40.9	32.2	79	4	53-127/20
127-18-4	Tetrachloroethene	ND		40.9	30.1	74	40.9	28.0	68	7	50-138/19
109-99-9	Tetrahydrofuran	ND		40.9	33.8	83	40.9	32.2	79	5	47-127/17
108-88-3	Toluene	ND		40.9	31.6	77	40.9	29.8	73	6	57-129/16
87-61-6	1,2,3-Trichlorobenzene	ND		40.9	15.9	39	40.9	13.7	33	15	13-152/29
120-82-1	1,2,4-Trichlorobenzene	ND		40.9	14.7	36	40.9	12.9	32	13	15-153/27
71-55-6	1,1,1-Trichloroethane	ND		40.9	40.1	98	40.9	37.9	93	6	60-134/15
79-00-5	1,1,2-Trichloroethane	ND		40.9	35.9	88	40.9	34.1	83	5	56-137/14
79-01-6	Trichloroethene	ND		40.9	31.2	76	40.9	28.5	70	9	52-144/19
75-69-4	Trichlorofluoromethane	ND		40.9	35.9	88	40.9	34.4	84	4	48-144/27
96-18-4	1,2,3-Trichloropropane	ND		40.9	34.9	85	40.9	33.8	83	3	57-126/18
95-63-6	1,2,4-Trimethylbenzene	ND		40.9	30.1	74	40.9	28.6	70	5	38-137/18
108-67-8	1,3,5-Trimethylbenzene	ND		40.9	32.4	79	40.9	30.6	75	6	39-139/18
75-01-4	Vinyl chloride	ND		40.9	32.1	78	40.9	30.9	75	4	44-152/15
	m,p-Xylene	ND		81.9	58.3	71	81.9	54.1	66	7	53-130/17
95-47-6	o-Xylene	ND		40.9	31.4	77	40.9	29.6	72	6	52-135/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD29693-19MS	1C180177.D	1	08/16/21	PS	n/a	n/a	V1C7853
JD29693-19MSD	1C180178.D	1	08/16/21	PS	n/a	n/a	V1C7853
JD29693-19	1C180171.D	1	08/16/21	PS	n/a	n/a	V1C7853

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD29693-19

CAS No.	Surrogate Recoveries	MS	MSD	JD29693-19	Limits
1868-53-7	Dibromofluoromethane	108%	107%	108%	72-130%
17060-07-0	1,2-Dichloroethane-D4	105%	103%	114%	75-131%
2037-26-5	Toluene-D8	104%	104%	107%	81-121%
460-00-4	4-Bromofluorobenzene	106%	107%	109%	60-141%

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std: V1C7850-CC7827 **Injection Date:** 08/12/21
Lab File ID: 1C180077.D **Injection Time:** 11:05
Instrument ID: GCMS1C **Method:** SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	98827	7.24	232234	9.48	367113	10.40	288626	13.55	133145	15.87
Upper Limit [a]	197654	7.74	464468	9.98	734226	10.90	577252	14.05	266290	16.37
Lower Limit [b]	49414	6.74	116117	8.98	183557	9.90	144313	13.05	66573	15.37

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V1C7850-BS	101816	7.24	239701	9.48	375060	10.40	299595	13.55	137076	15.86
V1C7850-MB	82606	7.24	242659	9.48	357934	10.40	285817	13.55	132707	15.86
ZZZZZZ	96564	7.24	225622	9.48	344956	10.40	278671	13.55	99796	15.87
JD29763-2	100586	7.24	271368	9.48	414082	10.40	338806	13.55	159976	15.86
JD29763-3	98124	7.24	271128	9.48	409241	10.40	335965	13.55	160473	15.87
ZZZZZZ	98128	7.24	269687	9.48	406637	10.40	333143	13.55	155045	15.87
ZZZZZZ	101206	7.24	264990	9.48	401627	10.40	326203	13.55	152313	15.87
JD29763-3MS	89177	7.24	256758	9.48	404297	10.40	324351	13.55	151132	15.87
JD29763-2DUP	102869	7.24	264302	9.48	402981	10.40	330840	13.55	155053	15.87
ZZZZZZ	95817	7.24	252805	9.48	388803	10.40	315447	13.55	147747	15.86
ZZZZZZ	96170	7.24	252602	9.48	383965	10.40	315705	13.55	148310	15.87
ZZZZZZ	98402	7.24	258869	9.48	395757	10.40	319146	13.55	151613	15.86
ZZZZZZ	96343	7.24	248654	9.48	375581	10.40	304721	13.55	137999	15.87
JD29693-1	99942	7.24	240225	9.48	369140	10.40	283936	13.55	111314	15.87
JD29693-2	114336	7.24	247199	9.48	378306	10.40	301506	13.55	131618	15.87
JD29693-3	106494	7.24	238179	9.49	364102	10.40	279931	13.55	105562	15.87
JD29693-4	94523	7.25	242769	9.48	375654	10.40	307739	13.55	146230	15.87
JD29693-5	95008	7.24	240758	9.48	369624	10.40	298854	13.55	130665	15.87
JD29693-6	94164	7.24	241445	9.48	372964	10.40	299314	13.55	134607	15.87
JD29693-7	89963	7.24	240326	9.48	372295	10.40	306793	13.55	143970	15.87
JD29693-8	123668	7.24	236877	9.49	371046	10.40	306210	13.55	145658	15.87
JD29693-9	87582	7.24	239399	9.48	369495	10.40	303247	13.55	142574	15.87
JD29693-10	98739	7.24	228090	9.48	353851	10.40	270773	13.55	108298	15.86
JD29693-12	95549	7.24	235364	9.48	366001	10.40	300846	13.55	141722	15.87

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	V1C7851-CC7827	**Injection Date:**	08/13/21
Lab File ID:	1C180106.D	**Injection Time:**	08:46
Instrument ID:	GCMS1C	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	85449	7.24	220991	9.48	349761	10.40	281826	13.55	135727	15.87
Upper Limit [a]	170898	7.74	441982	9.98	699522	10.90	563652	14.05	271454	16.37
Lower Limit [b]	42725	6.74	110496	8.98	174881	9.90	140913	13.05	67864	15.37

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V1C7851-BS	91592	7.24	240673	9.48	384151	10.40	309717	13.55	148439	15.87
ZZZZZZ	99820	7.24	246083	9.48	373184	10.40	307382	13.55	144281	15.87
V1C7851-MB	99820	7.24	246083	9.48	373184	10.40	307382	13.55	144281	15.87
JD29696-1	86591	7.24	240196	9.48	365817	10.40	303356	13.55	143412	15.87
ZZZZZZ	86072	7.24	234363	9.48	357087	10.40	293584	13.55	139053	15.86
ZZZZZZ	88423	7.24	232550	9.48	354594	10.40	288663	13.55	138428	15.87
ZZZZZZ	79238	7.24	231371	9.48	353881	10.40	292654	13.55	137420	15.87
ZZZZZZ	80849	7.24	227556	9.48	350083	10.40	287106	13.55	134208	15.87
ZZZZZZ	80143	7.24	224841	9.48	346193	10.40	282810	13.55	129631	15.87
JD29696-1MS	79973	7.25	228046	9.48	362611	10.40	295029	13.55	141099	15.86
JD29696-1MSD	79550	7.24	230589	9.48	367536	10.40	297577	13.55	141807	15.87
ZZZZZZ	84316	7.25	245370	9.48	379042	10.40	305952	13.55	142473	15.87
JD29693-11	89627	7.25	224491	9.48	345587	10.40	251945	13.55	80984	15.87
JD29693-13	87916	7.24	233526	9.49	360362	10.40	298773	13.55	141357	15.86
JD29693-15	97933	7.24	223660	9.48	341253	10.40	260900	13.55	99417	15.87
JD29693-16	96912	7.24	214305	9.48	336875	10.40	267927	13.55	114892	15.87
JD29693-17	82484	7.24	221073	9.48	337586	10.40	270177	13.55	118452	15.87
JD29693-20	84464	7.24	214576	9.48	331905	10.40	263603	13.55	118190	15.87
JD29693-21	98587	7.24	239485	9.48	367499	10.40	297057	13.55	135734	15.87
JD29693-22	92134	7.24	236399	9.48	365717	10.40	298880	13.55	139969	15.87

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std: V1C7853-CC7827 **Injection Date:** 08/16/21
Lab File ID: 1C180165.D **Injection Time:** 10:08
Instrument ID: GCMS1C **Method:** SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	87215	7.24	225960	9.48	357448	10.40	290103	13.55	138009	15.87
Upper Limit [a]	174430	7.74	451920	9.98	714896	10.90	580206	14.05	276018	16.37
Lower Limit [b]	43608	6.74	112980	8.98	178724	9.90	145052	13.05	69005	15.37

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V1C7853-BS	87714	7.24	234209	9.48	369682	10.40	300154	13.55	141155	15.86
V1C7853-MB	79663	7.24	252316	9.48	379323	10.40	310714	13.55	145566	15.87
ZZZZZZ	78749	7.24	244825	9.48	374618	10.40	303990	13.55	141142	15.86
JD29693-19	89390	7.24	243804	9.48	370311	10.40	291359	13.55	121224	15.87
ZZZZZZ	88508	7.24	249590	9.48	378424	10.40	311528	13.55	144611	15.86
ZZZZZZ	89791	7.24	246979	9.48	379934	10.40	311599	13.55	147911	15.86
ZZZZZZ	87495	7.24	241630	9.48	366548	10.40	300640	13.55	141749	15.86
ZZZZZZ	88833	7.24	234255	9.48	359918	10.40	292179	13.55	134423	15.86
ZZZZZZ	85930	7.24	238870	9.48	365960	10.40	297706	13.55	141827	15.86
JD29693-19MS	72398	7.24	221176	9.48	348225	10.40	276951	13.55	121587	15.86
JD29693-19MSD	79553	7.24	232897	9.48	368027	10.40	289445	13.55	123960	15.86
ZZZZZZ	84777	7.24	242070	9.48	374945	10.40	305928	13.55	143112	15.86
ZZZZZZ	93361	7.24	236345	9.48	364801	10.40	302377	13.55	139155	15.87
ZZZZZZ	98507	7.24	239220	9.48	371309	10.40	305173	13.55	148063	15.87
ZZZZZZ	86032	7.24	236419	9.48	363779	10.40	297909	13.55	141574	15.87
ZZZZZZ	90215	7.24	230445	9.48	358895	10.40	294888	13.55	139773	15.87
ZZZZZZ	83889	7.24	231089	9.48	357566	10.40	293926	13.55	138352	15.86
ZZZZZZ	85164	7.24	228820	9.48	357998	10.40	293167	13.55	139001	15.87
ZZZZZZ	80466	7.24	222929	9.48	346206	10.40	282576	13.55	135153	15.86
ZZZZZZ	88399	7.24	224477	9.48	348912	10.40	284822	13.55	132313	15.87
ZZZZZZ	85910	7.24	221609	9.48	345265	10.40	283996	13.55	132152	15.86
ZZZZZZ	83687	7.24	225929	9.48	353345	10.40	288658	13.55	137020	15.86

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std: V1C7854-CC7827 **Injection Date:** 08/17/21
Lab File ID: 1C180195.D **Injection Time:** 09:40
Instrument ID: GCMS1C **Method:** SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	77282	7.24	215042	9.48	337644	10.40	270876	13.55	128722	15.87
Upper Limit [a]	154564	7.74	430084	9.98	675288	10.90	541752	14.05	257444	16.37
Lower Limit [b]	38641	6.74	107521	8.98	168822	9.90	135438	13.05	64361	15.37

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V1C7854-BS	85560	7.24	222257	9.48	353077	10.40	279881	13.55	134136	15.86
V1C7854-MB	78267	7.24	244472	9.48	370139	10.40	298457	13.55	137426	15.87
ZZZZZZ	78267	7.24	244472	9.48	370139	10.40	298457	13.55	137426	15.87
ZZZZZZ	81059	7.24	233625	9.48	356402	10.40	287000	13.55	133387	15.86
ZZZZZZ	77951	7.24	234673	9.48	352031	10.40	284381	13.55	134685	15.86
JD29693-18	84154	7.24	218956	9.48	334829	10.40	244241	13.55	82627	15.87
JD29875-1	87374	7.24	231583	9.48	354701	10.40	290663	13.55	137824	15.87
JD29875-2	88223	7.24	228269	9.48	350104	10.40	285288	13.55	136181	15.87
ZZZZZZ	87642	7.24	230684	9.48	354532	10.40	289374	13.55	136486	15.86
ZZZZZZ	86290	7.24	228516	9.48	354386	10.40	287589	13.55	136067	15.86
ZZZZZZ	76977	7.24	224427	9.48	352667	10.40	279090	13.55	133064	15.86
JD29875-1MS	95354	7.24	220683	9.48	353052	10.40	286223	13.55	138978	15.87
JD29875-2DUP	90932	7.24	240087	9.48	371872	10.40	302003	13.55	141828	15.87
ZZZZZZ	90811	7.25	232795	9.48	354738	10.40	284402	13.55	132400	15.87
ZZZZZZ	93982	7.24	230593	9.48	356930	10.40	282417	13.55	128626	15.87
ZZZZZZ	85907	7.24	202894	9.48	318123	10.40	232296	13.55	85517	15.87
ZZZZZZ	92793	7.24	215941	9.48	333281	10.40	269846	13.55	128312	15.87
ZZZZZZ	100286	7.24	224194	9.48	343968	10.40	278884	13.55	132019	15.86
ZZZZZZ	89980	7.24	220317	9.48	342867	10.40	277338	13.55	128382	15.87
ZZZZZZ	91934	7.24	229210	9.48	355005	10.40	284433	13.55	132286	15.87
ZZZZZZ	91786	7.24	217454	9.48	340244	10.40	272997	13.55	128630	15.86
ZZZZZZ	83529	7.24	217305	9.48	336219	10.40	272849	13.55	128428	15.86
ZZZZZZ	87322	7.24	220648	9.48	341556	10.40	275536	13.55	129232	15.86
ZZZZZZ	90205	7.24	219467	9.48	338839	10.40	275270	13.55	130248	15.86

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	V1C7860-CC7827	**Injection Date:**	08/23/21
Lab File ID:	1C180381.D	**Injection Time:**	10:34
Instrument ID:	GCMS1C	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	82512	7.24	230866	9.48	357368	10.40	280804	13.55	133384	15.86
Upper Limit [a]	165024	7.74	461732	9.98	714736	10.90	561608	14.05	266768	16.36
Lower Limit [b]	41256	6.74	115433	8.98	178684	9.90	140402	13.05	66692	15.36

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V1C7860-BS	85550	7.24	231879	9.48	359172	10.40	280336	13.55	132462	15.87
ZZZZZZ	79652	7.24	249779	9.48	365564	10.40	289841	13.55	137351	15.86
V1C7860-MB	79652	7.24	249779	9.48	365564	10.40	289841	13.55	137351	15.86
JD30032-2	79398	7.24	246175	9.48	366404	10.40	289614	13.55	139988	15.86
ZZZZZZ	68810	7.24	235971	9.48	351801	10.40	280874	13.55	133177	15.86
ZZZZZZ	73092	7.24	238634	9.48	356258	10.40	287604	13.55	136249	15.86
ZZZZZZ	71331	7.24	229039	9.48	341719	10.40	274650	13.55	133032	15.86
ZZZZZZ	67335	7.24	223900	9.48	332482	10.40	264859	13.55	127951	15.86
ZZZZZZ	62317	7.24	216308	9.48	320413	10.40	259345	13.55	124509	15.86
ZZZZZZ	66875	7.24	216676	9.48	322308	10.40	258774	13.55	124880	15.87
ZZZZZZ	67864	7.24	215537	9.48	317611	10.40	253319	13.55	119524	15.86
JD30032-2MS	62855	7.24	204958	9.48	317173	10.40	252698	13.55	123245	15.87
JD30032-2MSD	70682	7.24	216371	9.48	330744	10.40	267345	13.55	129791	15.86
JD29693-14	81169	7.24	228746	9.48	339062	10.40	272677	13.55	128762	15.87
ZZZZZZ	79743	7.24	213488	9.48	315464	10.40	254304	13.55	123766	15.86
ZZZZZZ	80624	7.24	208375	9.48	311069	10.40	251450	13.55	122107	15.86
ZZZZZZ	85542	7.24	211065	9.48	314635	10.40	249691	13.55	123264	15.87
ZZZZZZ	77507	7.24	209076	9.48	305267	10.40	240129	13.55	113947	15.86
ZZZZZZ	83964	7.24	203118	9.48	298745	10.40	234418	13.55	113422	15.86
ZZZZZZ	80491	7.24	199443	9.48	293353	10.40	232016	13.55	110697	15.86
ZZZZZZ	87074	7.24	198499	9.48	296483	10.40	232910	13.55	111933	15.87
ZZZZZZ	81678	7.24	202313	9.48	297259	10.40	232636	13.55	110419	15.87
ZZZZZZ	78201	7.24	203212	9.48	299913	10.40	233270	13.55	109517	15.86
ZZZZZZ	77671	7.24	198637	9.48	294250	10.40	226764	13.55	107387	15.86

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: SW846 8260D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD29693-1	1C180092.D	108	114	107	114
JD29693-2	1C180093.D	108	117	105	106
JD29693-3	1C180094.D	108	116	109	116
JD29693-4	1C180095.D	108	112	102	101
JD29693-5	1C180096.D	109	116	104	106
JD29693-6	1C180097.D	109	113	104	105
JD29693-7	1C180098.D	109	113	103	101
JD29693-8	1C180099.D	111	119	102	102
JD29693-9	1C180100.D	107	111	103	101
JD29693-10	1C180101.D	109	114	107	112
JD29693-11	1C180121.D	108	112	113	127
JD29693-12	1C180102.D	110	114	103	101
JD29693-13	1C180122.D	108	113	101	101
JD29693-14	1C180396.D	103	108	101	99
JD29693-15	1C180123.D	110	118	110	115
JD29693-16	1C180124.D	112	120	106	109
JD29693-17	1C180125.D	110	116	105	106
JD29693-18	1C180202.D	112	114	113	122
JD29693-19	1C180171.D	108	114	107	109
JD29693-20	1C180127.D	110	119	105	100
JD29693-21	1C180128.D	108	114	105	105
JD29693-22	1C180129.D	108	113	104	102
JD29693-19MS	1C180177.D	108	105	104	106
JD29693-19MSD	1C180178.D	107	103	104	107
V1C7850-BS	1C180078.D	102	102	102	103
V1C7850-MB	1C180080.D	98	101	105	101
V1C7851-BS	1C180107.D	106	105	102	101
V1C7851-MB	1C180109.D	106	109	103	100
V1C7853-BS	1C180167.D	105	105	101	102
V1C7853-MB	1C180169.D	104	105	103	101
V1C7854-BS	1C180197.D	107	108	103	101
V1C7854-MB	1C180199.D	105	108	103	101
V1C7860-BS	1C180382.D	103	102	102	98
V1C7860-MB	1C180384.D	101	103	103	97

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	72-130%
S2 = 1,2-Dichloroethane-D4	75-131%

Surrogate Recovery Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: SW846 8260D **Matrix:** SO

Samples and QC shown here apply to the above method

Surrogate Compounds	Recovery Limits
S3 = Toluene-D8	81-121%
S4 = 4-Bromofluorobenzene	60-141%

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34845A-MB1	4M101713.D	1	08/17/21	CS	08/11/21	OP34845A	E4M4741

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13, JD29693-15

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	3.3	ug/kg	
208-96-8	Acenaphthylene	ND	3.3	ug/kg	
120-12-7	Anthracene	ND	3.3	ug/kg	
56-55-3	Benzo(a)anthracene	ND	3.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3.3	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.3	ug/kg	
218-01-9	Chrysene	ND	3.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3.3	ug/kg	
206-44-0	Fluoranthene	ND	3.3	ug/kg	
86-73-7	Fluorene	ND	3.3	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.3	ug/kg	
91-20-3	Naphthalene	ND	3.3	ug/kg	
85-01-8	Phenanthrene	ND	3.3	ug/kg	
129-00-0	Pyrene	ND	3.3	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	78%	39-90%
321-60-8	2-Fluorobiphenyl	75%	35-84%
1718-51-0	Terphenyl-d14	82%	42-95%

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34846A-MB1	4M101769A.D	1	08/19/21	CS	08/17/21	OP34846A	E4M4744

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-16, JD29693-17, JD29693-18, JD29693-19, JD29693-20, JD29693-21, JD29693-22

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	3.3	ug/kg	
208-96-8	Acenaphthylene	ND	3.3	ug/kg	
120-12-7	Anthracene	ND	3.3	ug/kg	
56-55-3	Benzo(a)anthracene	ND	3.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3.3	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.3	ug/kg	
218-01-9	Chrysene	ND	3.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3.3	ug/kg	
206-44-0	Fluoranthene	ND	3.3	ug/kg	
86-73-7	Fluorene	ND	3.3	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.3	ug/kg	
91-20-3	Naphthalene	ND	3.3	ug/kg	
85-01-8	Phenanthrene	ND	3.3	ug/kg	
129-00-0	Pyrene	ND	3.3	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	60%	39-90%
321-60-8	2-Fluorobiphenyl	57%	35-84%
1718-51-0	Terphenyl-d14	61%	42-95%

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34845A-BS12	4M101714.D	1	08/17/21	CS	08/11/21	OP34845A	E4M4741

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13, JD29693-15

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	33.3	22.7	68	55-94
208-96-8	Acenaphthylene	33.3	20.8	62	53-95
120-12-7	Anthracene	33.3	25.3	76	56-100
56-55-3	Benzo(a)anthracene	33.3	23.3	70	55-105
50-32-8	Benzo(a)pyrene	33.3	27.0	81	48-102
205-99-2	Benzo(b)fluoranthene	33.3	30.1	90	51-97
191-24-2	Benzo(g,h,i)perylene	33.3	26.4	79	42-110
207-08-9	Benzo(k)fluoranthene	33.3	30.1	90	55-112
218-01-9	Chrysene	33.3	24.1	72	57-108
53-70-3	Dibenzo(a,h)anthracene	33.3	24.8	74	44-102
206-44-0	Fluoranthene	33.3	25.1	75	54-110
86-73-7	Fluorene	33.3	23.8	71	57-104
193-39-5	Indeno(1,2,3-cd)pyrene	33.3	25.6	77	43-104
91-20-3	Naphthalene	33.3	22.5	68	58-99
85-01-8	Phenanthrene	33.3	24.8	74	57-107
129-00-0	Pyrene	33.3	25.1	75	59-106

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	76%	39-90%
321-60-8	2-Fluorobiphenyl	76%	35-84%
1718-51-0	Terphenyl-d14	82%	42-95%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34846A-BS12	4M101770.D	1	08/19/21	CS	08/17/21	OP34846A	E4M4744

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-16, JD29693-17, JD29693-18, JD29693-19, JD29693-20, JD29693-21, JD29693-22

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	33.3	23.2	70	55-94
208-96-8	Acenaphthylene	33.3	22.2	67	53-95
120-12-7	Anthracene	33.3	25.9	78	56-100
56-55-3	Benzo(a)anthracene	33.3	26.5	80	55-105
50-32-8	Benzo(a)pyrene	33.3	25.3	76	48-102
205-99-2	Benzo(b)fluoranthene	33.3	29.6	89	51-97
191-24-2	Benzo(g,h,i)perylene	33.3	22.7	68	42-110
207-08-9	Benzo(k)fluoranthene	33.3	27.6	83	55-112
218-01-9	Chrysene	33.3	24.8	74	57-108
53-70-3	Dibenzo(a,h)anthracene	33.3	25.8	77	44-102
206-44-0	Fluoranthene	33.3	24.8	74	54-110
86-73-7	Fluorene	33.3	24.1	72	57-104
193-39-5	Indeno(1,2,3-cd)pyrene	33.3	24.4	73	43-104
91-20-3	Naphthalene	33.3	23.1	69	58-99
85-01-8	Phenanthrene	33.3	25.4	76	57-107
129-00-0	Pyrene	33.3	25.5	77	59-106

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	80%	39-90%
321-60-8	2-Fluorobiphenyl	78%	35-84%
1718-51-0	Terphenyl-d14	83%	42-95%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34845A-MSA	4M101730.D	1	08/17/21	CS	08/11/21	OP34845A	E4M4741
OP34845A-MSDA	4M101731.D	1	08/17/21	CS	08/11/21	OP34845A	E4M4741
JD29693-1 [a]	4M101732.D	1	08/17/21	CS	08/11/21	OP34845A	E4M4741

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13, JD29693-15

CAS No.	Compound	JD29693-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	12.0		37.2	24.8	34	78.6	53.4	53	73* [b]	28-110/41
208-96-8	Acenaphthylene	192		37.2	112	-215* [c]	78.6	178	-18* [c]	46* [b]	21-144/44
120-12-7	Anthracene	101		37.2	62.6	-103* [c]	78.6	121	25	64	23-128/79
56-55-3	Benzo(a)anthracene	436		37.2	182	-683* [c]	78.6	351	-108* [c]	63	10-170/67
50-32-8	Benzo(a)pyrene	608		37.2	212	-1065* [c]	78.6	421	-238* [c]	66* [b]	24-126/61
205-99-2	Benzo(b)fluoranthene	932		37.2	307	-1681* [c]	78.6	660	-346* [c]	73* [b]	10-156/68
191-24-2	Benzo(g,h,i)perylene	786		37.2	224	-1512* [c]	78.6	531	-324* [c]	81* [b]	15-163/58
207-08-9	Benzo(k)fluoranthene	326		37.2	124	-543* [c]	78.6	227	-126* [c]	59* [b]	20-160/56
218-01-9	Chrysene	563		37.2	220	-923* [c]	78.6	418	-184* [c]	62* [b]	30-147/60
53-70-3	Dibenzo(a,h)anthracene	179		37.2	67.7	-299* [c]	78.6	151	-36* [c]	76* [b]	14-172/49
206-44-0	Fluoranthene	707		37.2	235	-1270* [c]	78.6	488	-278* [c]	70	12-153/70
86-73-7	Fluorene	30.3		37.2	32.5	6* [d]	78.6	69.4	50	72* [b]	24-133/50
193-39-5	Indeno(1,2,3-cd)pyrene	686		37.2	205	-1294* [c]	78.6	474	-270* [c]	79* [b]	14-172/59
91-20-3	Naphthalene	48.1		37.2	48.5	1* [d]	78.6	92.8	57	63	15-141/72
85-01-8	Phenanthrene	474		37.2	186	-775* [c]	78.6	346	-163* [c]	60	28-121/63
129-00-0	Pyrene	713		37.2	254	-1235* [c]	78.6	496	-276* [c]	65	23-137/73

CAS No.	Surrogate Recoveries	MS	MSD	JD29693-1	Limits
4165-60-0	Nitrobenzene-d5	61%	70%	72%	39-90%
321-60-8	2-Fluorobiphenyl	60%	68%	72%	35-84%
1718-51-0	Terphenyl-d14	60%	68%	73%	42-95%

(a) Elevated detection limit due to low volume of sample extracted.
(b) Outside of in house control limits.
(c) Outside control limits due to high level in sample relative to spike amount.
(d) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34846A-MSA	4M101781.D	1	08/19/21	CS	08/17/21	OP34846A	E4M4744
OP34846A-MSDA	4M101782.D	1	08/19/21	CS	08/17/21	OP34846A	E4M4744
JD29693-19	4M101783A.D	1	08/19/21	CS	08/17/21	OP34846A	E4M4744
JD29693-19	4M101843.D	5	08/24/21	CS	08/17/21	OP34846A	E4M4747

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-16, JD29693-17, JD29693-18, JD29693-19, JD29693-20, JD29693-21, JD29693-22

CAS No.	Compound	JD29693-19 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	8.81		37.8	27.6	50	37.3	30.0	57	8	28-110/41
208-96-8	Acenaphthylene	53.3		37.8	67.3	37	37.3	84.1	83	22	21-144/44
120-12-7	Anthracene	70.3		37.8	85.4	40	37.3	117	125	31	23-128/79
56-55-3	Benzo(a)anthracene	153		37.8	167	37	37.3	232	212* [a]	33	10-170/67
50-32-8	Benzo(a)pyrene	100		37.8	114	37	37.3	180	214* [a]	45	24-126/61
205-99-2	Benzo(b)fluoranthene	194 [b]		37.8	203	24	37.3	307	303* [a]	41	10-156/68
191-24-2	Benzo(g,h,i)perylene	67.7		37.8	79.4	31	37.3	133	175* [c]	50	15-163/58
207-08-9	Benzo(k)fluoranthene	63.6		37.8	82.1	49	37.3	110	124	29	20-160/56
218-01-9	Chrysene	162		37.8	173	29* [a]	37.3	244	220* [a]	34	30-147/60
53-70-3	Dibenzo(a,h)anthracene	24.2		37.8	34.0	26	37.3	62.2	102	59* [d]	14-172/49
206-44-0	Fluoranthene	322 [b]		37.8	325	8* [a]	37.3	421	265* [a]	26	12-153/70
86-73-7	Fluorene	18.6		37.8	37.3	49	37.3	45.8	73	20	24-133/50
193-39-5	Indeno(1,2,3-cd)pyrene	74.4		37.8	88.4	37	37.3	142	181* [c]	47	14-172/59
91-20-3	Naphthalene	98.9		37.8	102	8* [a]	37.3	112	35	9	15-141/72
85-01-8	Phenanthrene	320 [b]		37.8	307	-34* [a]	37.3	394	198* [a]	25	28-121/63
129-00-0	Pyrene	275 [b]		37.8	284	24	37.3	370	255* [a]	26	23-137/73

CAS No.	Surrogate Recoveries	MS	MSD	JD29693-19	JD29693-19	Limits
4165-60-0	Nitrobenzene-d5	58%	62%	55%	57%	39-90%
321-60-8	2-Fluorobiphenyl	56%	60%	53%	58%	35-84%
1718-51-0	Terphenyl-d14	55%	63%	50%	53%	42-95%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.
(c) Outside control limits due to matrix interference.
(d) Outside of in house control limits.

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	E4M4741-CC4670	**Injection Date:**	08/17/21
Lab File ID:	4M101712.D	**Injection Time:**	00:27
Instrument ID:	GCMS4M	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	29206	6.55	36192	8.00	64860	10.10	39986	12.74
Upper Limit [a]	58412	7.05	72384	8.50	129720	10.60	79972	13.24
Lower Limit [b]	14603	6.05	18096	7.50	32430	9.60	19993	12.24

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP34845A-MB1	29234	6.55	34464	8.00	57297	10.10	32722	12.74
OP34845A-BS12	26320	6.56	32233	8.00	53234	10.10	30423	12.74
OP34914A-MB1	23054	6.56	28453	8.00	51208	10.10	31003	12.74
OP34914A-BS12	22742	6.56	28457	8.00	50666	10.10	31666	12.74
OP34914A-BSD12	22734	6.56	28175	8.00	49969	10.10	31386	12.74
ZZZZZZ	22272	6.56	27591	8.00	51065	10.10	33597	12.74
ZZZZZZ	22359	6.56	26918	8.00	49431	10.10	32447	12.74
ZZZZZZ	20859	6.56	26333	8.01	47648	10.10	33069	12.74
JD29693-9	29220	6.55	35327	8.00	58576	10.10	32383	12.74
JD29693-4	26265	6.55	30996	8.00	50245	10.10	30161	12.74
JD29693-13	26293	6.55	31760	8.00	53058	10.10	31881	12.74
JD29693-12	25042	6.55	29973	8.00	49787	10.10	29928	12.74
JD29693-5	26575	6.55	30688	8.00	48606	10.10	30453	12.74
JD29693-2	24415	6.56	28060	8.00	45885	10.10	30133	12.74
JD29693-11	24838	6.56	27901	8.00	50562	10.11	33632	12.74
JD29693-3	24298	6.56	28335	8.00	46165	10.10	31333	12.74
JD29693-6	22283	6.56	25928	8.00	43072	10.10	32422	12.75
OP34845A-MSA	23411	6.56	28133	8.01	45320	10.11	33951	12.75
OP34845A-MSDA	22923	6.56	26887	8.01	44032	10.11	34490	12.75
JD29693-1 [c]	21945	6.56	25851	8.01	43460	10.11	32912	12.75
JD29693-7	20805	6.56	24410	8.01	43724	10.11	32748	12.75
JD29693-8	21534	6.56	25281	8.01	43300	10.11	33016	12.75
JD29693-15	20434	6.56	24963	8.01	50557	10.11	34951	12.76
JD29693-10	21258	6.56	26571	8.01	47394	10.11	33921	12.76
ZZZZZZ	22652	6.56	28782	8.01	51151	10.11	32036	12.75
ZZZZZZ	21823	6.56	27689	8.01	51225	10.11	31661	12.75
JD29693-3	21877	6.56	27269	8.01	50674	10.11	33198	12.76
JD29693-7	21991	6.56	27945	8.01	52459	10.11	32851	12.75
JD29693-8	21695	6.56	27865	8.01	51598	10.11	32813	12.75

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

Internal Standard Area Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	E4M4741-CC4670	**Injection Date:**	08/17/21
Lab File ID:	4M101712.D	**Injection Time:**	00:27
Instrument ID:	GCMS4M	**Method:**	SW846 8270E BY SIM

Lab	**IS 1**		**IS 2**		**IS 3**		**IS 4**	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Elevated detection limit due to low volume of sample extracted.

Internal Standard Area Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	E4M4742-CC4670	**Injection Date:**	08/17/21
Lab File ID:	4M101747.D	**Injection Time:**	13:56
Instrument ID:	GCMS4M	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	27103	6.55	34397	7.99	65579	10.09	44052	12.72
Upper Limit [a]	54206	7.05	68794	8.49	131158	10.59	88104	13.22
Lower Limit [b]	13552	6.05	17199	7.49	32790	9.59	22026	12.22

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
JD29693-11	24577	6.55	32066	8.00	61828	10.09	43225	12.74
JD29693-11	23734	6.55	30714	8.00	57367	10.09	40358	12.74
JD29693-15	24414	6.55	31611	8.00	60241	10.09	41750	12.74
JD29693-10	23144	6.55	29510	8.00	52778	10.09	34398	12.74

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	E4M4743-CC4670	**Injection Date:**	08/18/21
Lab File ID:	4M101755.D	**Injection Time:**	16:18
Instrument ID:	GCMS4M	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	28760	6.55	36578	8.00	69793	10.09	46859	12.74
Upper Limit [a]	57520	7.05	73156	8.50	139586	10.59	93718	13.24
Lower Limit [b]	14380	6.05	18289	7.50	34897	9.59	23430	12.24

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
JD29693-15	25106	6.55	32049	8.00	60869	10.09	39857	12.74
OP34916A-MB1	22182	6.55	28123	7.99	52662	10.09	36643	12.73
OP34916A-LB17	22249	6.55	28269	8.00	54517	10.09	37614	12.73
OP34916A-BS12	22138	6.55	27856	8.00	53343	10.09	37426	12.74
ZZZZZZ	23143	6.55	28276	7.99	54166	10.09	37326	12.73
ZZZZZZ	23442	6.54	28824	8.00	53506	10.09	37485	12.73
ZZZZZZ	23251	6.55	29266	8.00	56405	10.09	40539	12.74
JD29497-1R	22100	6.55	27428	8.00	53169	10.09	38291	12.74
OP34916A-MSA	25196	6.55	30921	8.00	57224	10.09	40977	12.74
OP34916A-MSDA	22572	6.55	28167	8.00	53424	10.09	38213	12.74

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	E4M4744-CC4670	**Injection Date:**	08/19/21
Lab File ID:	4M101768.D	**Injection Time:**	03:08
Instrument ID:	GCMS4M	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	24271	6.54	30922	7.99	59008	10.08	42565	12.72
Upper Limit [a]	48542	7.04	61844	8.49	118016	10.58	85130	13.22
Lower Limit [b]	12136	6.04	15461	7.49	29504	9.58	21283	12.22

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP34846A-MB1	25766	6.54	30325	7.99	52511	10.08	30978	12.72
OP34846A-BS12	27012	6.54	32446	7.99	55251	10.08	33102	12.71
OP34965A-MB1	23717	6.54	28923	7.99	52681	10.08	34603	12.72
OP34965A-BS12	24038	6.54	29028	7.99	51460	10.08	33964	12.71
OP34965A-BSD12	24168	6.54	29720	7.99	52149	10.08	34157	12.71
ZZZZZZ	20121	6.54	25597	7.99	47692	10.08	33846	12.71
ZZZZZZ	20425	6.54	26409	7.99	49610	10.08	34757	12.71
ZZZZZZ	22466	6.54	26759	7.99	48458	10.08	34002	12.71
JD29693-20	24668	6.54	28122	7.99	47025	10.08	28051	12.72
JD29693-16	24186	6.54	26839	7.99	44036	10.08	28807	12.71
JD29693-22	26369	6.54	29529	7.99	49341	10.08	32862	12.72
JD29693-18	25710	6.54	29073	7.99	46232	10.08	31241	12.72
OP34846A-MSA	24064	6.54	27250	7.99	44384	10.08	31014	12.72
OP34846A-MSDA	23582	6.54	27639	7.99	45058	10.08	31676	12.72
JD29693-19	23040	6.53	26939	7.98	43452	10.08	30423	12.72
JD29693-17 [c]	22775	6.54	26538	7.99	43949	10.08	34379	12.72
JD29693-21 [c]	24080	6.54	27071	7.99	47397	10.09	36623	12.74

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Dilution required due to viscosity of the extract matrix.

Internal Standard Area Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	E4M4747-CC4670	**Injection Date:**	08/23/21
Lab File ID:	4M101825.D	**Injection Time:**	21:46
Instrument ID:	GCMS4M	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	26547	6.51	37550	7.96	67929	10.05	44185	12.69
Upper Limit [a]	53094	7.01	75100	8.46	135858	10.55	88370	13.19
Lower Limit [b]	13274	6.01	18775	7.46	33965	9.55	22093	12.19

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP35020A-BS12	46497	6.51	49176	7.96	88265	10.05	53173	12.70
OP35020A-MSA	35030	6.51	44546	7.96	80667	10.05	46268	12.69
OP35020A-MSDA	35794	6.51	45633	7.96	82256	10.05	48246	12.70
JD30237-5	46553	6.51	58361	7.96	99793	10.05	56748	12.70
ZZZZZZ	42116	6.51	52690	7.96	84295	10.06	55879	12.70
ZZZZZZ	36964	6.51	46956	7.96	84176	10.05	50970	12.69
ZZZZZZ	42334	6.51	53223	7.96	95857	10.05	50176	12.69
ZZZZZZ	41885	6.51	50616	7.96	89254	10.06	57773	12.69
ZZZZZZ	37236	6.51	52810	7.96	89166	10.06	49648	12.69
ZZZZZZ	44674	6.51	86808[c]	7.96	103586	10.06	51232	12.70
ZZZZZZ	27535	6.51	35353	7.96	62717	10.06	42225	12.70
JD29693-17	34430	6.51	43656	7.96	80413	10.06	62029	12.69
JD29693-21	35234	6.51	44569	7.96	79395	10.06	55933	12.69
JD29693-22	33588	6.51	44227	7.96	83480	10.06	54571	12.70
ZZZZZZ	30289	6.52	44713	7.96	72683	10.06	48617	12.70
JD29693-18	32146	6.51	40210	7.96	77560	10.06	56626	12.69
JD29693-19	30109	6.51	38411	7.96	72803	10.06	50186	12.70
JD29693-17	31108	6.51	39545	7.96	78249	10.06	51954	12.70
JD29693-21	32696	6.51	41217	7.96	85155	10.06	55647	12.70
JD29693-22	31213	6.51	37947	7.96	68284	10.06	52756	12.70

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Internal standard standard failing high.

Internal Standard Area Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	E4M4748-CC4670	**Injection Date:**	08/24/21
Lab File ID:	4M101848.D	**Injection Time:**	10:09
Instrument ID:	GCMS4M	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	31866	6.51	40913	7.96	75677	10.06	50246	12.73
Upper Limit [a]	63732	7.01	81826	8.46	151354	10.56	100492	13.23
Lower Limit [b]	15933	6.01	20457	7.46	37839	9.56	25123	12.23

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP35037A-MB1	34899	6.51	45301	7.96	77207	10.06	50615	12.72
OP35037A-BS12	31306	6.51	39505	7.96	71760	10.07	45967	12.73
OP35037A-BSD12	31128	6.51	40078	7.96	72313	10.07	46536	12.72
JD29693-22	36984	6.51	50048	7.96	90195	10.07	57470	12.72
ZZZZZZ	35641	6.52	40456	7.97	70213	10.07	49734	12.71
ZZZZZZ	31084	6.51	40872	7.96	76854	10.06	49338	12.72
ZZZZZZ	26767	6.51	36404	7.96	71614	10.06	49958	12.72
ZZZZZZ	30831	6.51	39582	7.96	71202	10.07	51824	12.72
ZZZZZZ	28810	6.51	36239	7.96	64251	10.07	43711	12.72
ZZZZZZ	29524	6.51	38747	7.96	77427	10.07	48932	12.72
ZZZZZZ	27517	6.51	33862	7.96	62913	10.07	41484	12.72
ZZZZZZ	35127	6.51	61514	7.96	79675	10.07	48347	12.73

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: SW846 8270E BY SIM **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JD29693-1	4M101732.D	72	72	73
JD29693-2	4M101726.D	61	59	63
JD29693-3	4M101739.D	63	70	71
JD29693-3	4M101728.D	59	58	59
JD29693-4	4M101722.D	73	71	73
JD29693-5	4M101725.D	53	52	54
JD29693-6	4M101729.D	65	63	63
JD29693-7	4M101740.D	66	75	75
JD29693-7	4M101733.D	60	60	61
JD29693-8	4M101741.D	81	90* [a]	84
JD29693-8	4M101734.D	71	68	62
JD29693-9	4M101721.D	59	58	59
JD29693-10	4M101752.D	67	67	66
JD29693-10	4M101736.D	61	64	63
JD29693-11	4M101749.D	80	89* [b]	87
JD29693-11	4M101750.D	74	80	75
JD29693-11	4M101727.D	64	60	55
JD29693-12	4M101724.D	65	64	67
JD29693-13	4M101723.D	74	76	81
JD29693-15	4M101751.D	74	85* [b]	84
JD29693-15	4M101756.D	77	90* [b]	92
JD29693-15	4M101735.D	66	67	62
JD29693-16	4M101778.D	63	58	62
JD29693-17	4M101838.D	57	60	64
JD29693-17	4M101784.D	54	53	56
JD29693-17	4M101844.D	59	63	65
JD29693-18	4M101842.D	53	63	63
JD29693-18	4M101780.D	47	53	52
JD29693-19	4M101843.D	57	58	53
JD29693-19	4M101783A.D	55	53	50
JD29693-20	4M101777.D	63	61	65
JD29693-21	4M101839.D	69	77	79
JD29693-21	4M101845.D	74	79	78
JD29693-21	4M101785.D	68	67	67
JD29693-22	4M101840.D	62	62	66
JD29693-22	4M101846.D	57	54	56
JD29693-22	4M101852.D	58	64	64
JD29693-22	4M101779.D	55	51	52
OP34845A-BS12	4M101714.D	76	76	82
OP34845A-MB1	4M101713.D	78	75	82

Surrogate Recovery Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: SW846 8270E BY SIM **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
OP34845A-MSA	4M101730.D	61	60	60
OP34845A-MSDA	4M101731.D	70	68	68
OP34846A-BS12	4M101770.D	80	78	83
OP34846A-MB1	4M101769A.D	60	57	61
OP34846A-MSA	4M101781.D	58	56	55
OP34846A-MSDA	4M101782.D	62	60	63

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	39-90%
S2 = 2-Fluorobiphenyl	35-84%
S3 = Terphenyl-d14	42-95%

(a) Outside of in house control limits due to dilution, but within reasonable method recovery limits.
(b) Outside of in house control limits but within RCP criteria limits.

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- DDT/Endrin Breakdown Checks
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34853-MB1	8Y39996.D	1	08/12/21	TL	08/12/21	OP34853	G8Y1645

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13, JD29693-15, JD29693-16, JD29693-17, JD29693-18, JD29693-19, JD29693-20

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	6.7	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	73%	30-130%

8.1.1

8

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34853-MB1	8Z40001A.D	1	08/12/21	TL	08/12/21	OP34853	G8Z1725

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13, JD29693-15, JD29693-16, JD29693-17, JD29693-18, JD29693-19, JD29693-20

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	6.7	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	83%	30-130%

8.1.2

8

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34854-MB1	8Y40015.D	1	08/13/21	RK	08/12/21	OP34854	G8Y1646

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-21, JD29693-22

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	6.7	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	51%	30-130%

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34854-MB1	8Z40017.D	1	08/13/21	RK	08/12/21	OP34854	G8Z1726

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-21, JD29693-22

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	6.7	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	59%	30-130%

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34849-MB1	1G168914.D	1	08/13/21	TC	08/12/21	OP34849	G1G5775

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13, JD29693-15

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.67	ug/kg	
15972-60-8	Alachlor	ND	6.7	ug/kg	
319-84-6	alpha-BHC	ND	0.67	ug/kg	
319-85-7	beta-BHC	ND	0.67	ug/kg	
319-86-8	delta-BHC	ND	0.67	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.67	ug/kg	
12789-03-6	Chlordane	ND	33	ug/kg	
60-57-1	Dieldrin	ND	0.67	ug/kg	
72-54-8	4,4'-DDD	ND	0.67	ug/kg	
72-55-9	4,4'-DDE	ND	0.67	ug/kg	
50-29-3	4,4'-DDT	ND	0.67	ug/kg	
72-20-8	Endrin	ND	0.67	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.67	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.67	ug/kg	
959-98-8	Endosulfan-I	ND	0.67	ug/kg	
33213-65-9	Endosulfan-II	ND	0.67	ug/kg	
76-44-8	Heptachlor	ND	0.67	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.67	ug/kg	
72-43-5	Methoxychlor	ND	1.3	ug/kg	
53494-70-5	Endrin ketone	ND	0.67	ug/kg	
8001-35-2	Toxaphene	ND	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	123%	27-138%
877-09-8	Tetrachloro-m-xylene	127%	27-138%
2051-24-3	Decachlorobiphenyl	141%	10-179%
2051-24-3	Decachlorobiphenyl	136%	10-179%

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34849-MB1	8G39998.D	1	08/13/21	RK	08/12/21	OP34849	G8G1686

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13, JD29693-15

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.67	ug/kg	
15972-60-8	Alachlor	ND	6.7	ug/kg	
319-84-6	alpha-BHC	ND	0.67	ug/kg	
319-85-7	beta-BHC	ND	0.67	ug/kg	
319-86-8	delta-BHC	ND	0.67	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.67	ug/kg	
12789-03-6	Chlordane	ND	33	ug/kg	
60-57-1	Dieldrin	ND	0.67	ug/kg	
72-54-8	4,4'-DDD	ND	0.67	ug/kg	
72-55-9	4,4'-DDE	ND	0.67	ug/kg	
50-29-3	4,4'-DDT	ND	0.67	ug/kg	
72-20-8	Endrin	ND	0.67	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.67	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.67	ug/kg	
959-98-8	Endosulfan-I	ND	0.67	ug/kg	
33213-65-9	Endosulfan-II	ND	0.67	ug/kg	
76-44-8	Heptachlor	ND	0.67	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.67	ug/kg	
72-43-5	Methoxychlor	ND	1.3	ug/kg	
53494-70-5	Endrin ketone	ND	0.67	ug/kg	
8001-35-2	Toxaphene	ND	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	128%	27-138%
877-09-8	Tetrachloro-m-xylene	127%	27-138%
2051-24-3	Decachlorobiphenyl	136%	10-179%
2051-24-3	Decachlorobiphenyl	146%	10-179%

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34851-MB1	6G78882.D	1	08/13/21	CP	08/12/21	OP34851	G6G2765

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD29693-16, JD29693-17, JD29693-18, JD29693-19, JD29693-20, JD29693-21, JD29693-22

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.67	ug/kg	
15972-60-8	Alachlor	ND	6.7	ug/kg	
319-84-6	alpha-BHC	ND	0.67	ug/kg	
319-85-7	beta-BHC	ND	0.67	ug/kg	
319-86-8	delta-BHC	ND	0.67	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.67	ug/kg	
12789-03-6	Chlordane	ND	33	ug/kg	
60-57-1	Dieldrin	ND	0.67	ug/kg	
72-54-8	4,4'-DDD	ND	0.67	ug/kg	
72-55-9	4,4'-DDE	ND	0.67	ug/kg	
50-29-3	4,4'-DDT	ND	0.67	ug/kg	
72-20-8	Endrin	ND	0.67	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.67	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.67	ug/kg	
959-98-8	Endosulfan-I	ND	0.67	ug/kg	
33213-65-9	Endosulfan-II	ND	0.67	ug/kg	
76-44-8	Heptachlor	ND	0.67	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.67	ug/kg	
72-43-5	Methoxychlor	ND	1.3	ug/kg	
53494-70-5	Endrin ketone	ND	0.67	ug/kg	
8001-35-2	Toxaphene	ND	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	118%	27-138%
877-09-8	Tetrachloro-m-xylene	105%	27-138%
2051-24-3	Decachlorobiphenyl	120%	10-179%
2051-24-3	Decachlorobiphenyl	119%	10-179%

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34851-MB1	8G39980.D	1	08/13/21	CP	08/12/21	OP34851	G8G1684

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD29693-16, JD29693-17, JD29693-18, JD29693-19, JD29693-20, JD29693-21, JD29693-22

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.67	ug/kg	
15972-60-8	Alachlor	ND	6.7	ug/kg	
319-84-6	alpha-BHC	ND	0.67	ug/kg	
319-85-7	beta-BHC	ND	0.67	ug/kg	
319-86-8	delta-BHC	ND	0.67	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.67	ug/kg	
12789-03-6	Chlordane	ND	33	ug/kg	
60-57-1	Dieldrin	ND	0.67	ug/kg	
72-54-8	4,4'-DDD	ND	0.67	ug/kg	
72-55-9	4,4'-DDE	ND	0.67	ug/kg	
50-29-3	4,4'-DDT	ND	0.67	ug/kg	
72-20-8	Endrin	ND	0.67	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.67	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.67	ug/kg	
959-98-8	Endosulfan-I	ND	0.67	ug/kg	
33213-65-9	Endosulfan-II	ND	0.67	ug/kg	
76-44-8	Heptachlor	ND	0.67	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.67	ug/kg	
72-43-5	Methoxychlor	ND	1.3	ug/kg	
53494-70-5	Endrin ketone	ND	0.67	ug/kg	
8001-35-2	Toxaphene	ND	17	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	98%	27-138%
877-09-8	Tetrachloro-m-xylene	105%	27-138%
2051-24-3	Decachlorobiphenyl	96%	10-179%
2051-24-3	Decachlorobiphenyl	124%	10-179%

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34850-MB1	5G109257.D	1	08/13/21	TC	08/12/21	OP34850	G5G2755

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD29693-2, JD29693-4, JD29693-5, JD29693-6, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	50	ug/kg	
11104-28-2	Aroclor 1221	ND	50	ug/kg	
11141-16-5	Aroclor 1232	ND	50	ug/kg	
53469-21-9	Aroclor 1242	ND	50	ug/kg	
12672-29-6	Aroclor 1248	ND	50	ug/kg	
11097-69-1	Aroclor 1254	ND	50	ug/kg	
11096-82-5	Aroclor 1260	ND	50	ug/kg	
11100-14-4	Aroclor 1268	ND	50	ug/kg	
37324-23-5	Aroclor 1262	ND	50	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	108%	24-152%
877-09-8	Tetrachloro-m-xylene	105%	24-152%
2051-24-3	Decachlorobiphenyl	122%	10-172%
2051-24-3	Decachlorobiphenyl	113%	10-172%

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34852-MB1	5G109298.D	1	08/15/21	TL	08/13/21	OP34852	G5G2756

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD29693-15, JD29693-16, JD29693-17, JD29693-18, JD29693-19, JD29693-20, JD29693-21, JD29693-22

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	50	ug/kg	
11104-28-2	Aroclor 1221	ND	50	ug/kg	
11141-16-5	Aroclor 1232	ND	50	ug/kg	
53469-21-9	Aroclor 1242	ND	50	ug/kg	
12672-29-6	Aroclor 1248	ND	50	ug/kg	
11097-69-1	Aroclor 1254	ND	50	ug/kg	
11096-82-5	Aroclor 1260	ND	50	ug/kg	
11100-14-4	Aroclor 1268	ND	50	ug/kg	
37324-23-5	Aroclor 1262	ND	50	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	95%	24-152%
877-09-8	Tetrachloro-m-xylene	94%	24-152%
2051-24-3	Decachlorobiphenyl	115%	10-172%
2051-24-3	Decachlorobiphenyl	104%	10-172%

Method Blank Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34955-MB1	XX2469719.D	1	08/18/21	RK	08/17/21	OP34955	GXX7544

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD29693-1, JD29693-3, JD29693-7, JD29693-8

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	50	ug/kg	
11104-28-2	Aroclor 1221	ND	50	ug/kg	
11141-16-5	Aroclor 1232	ND	50	ug/kg	
53469-21-9	Aroclor 1242	ND	50	ug/kg	
12672-29-6	Aroclor 1248	ND	50	ug/kg	
11097-69-1	Aroclor 1254	ND	50	ug/kg	
11096-82-5	Aroclor 1260	ND	50	ug/kg	
11100-14-4	Aroclor 1268	ND	50	ug/kg	
37324-23-5	Aroclor 1262	ND	50	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	124%	24-152%
877-09-8	Tetrachloro-m-xylene	120%	24-152%
2051-24-3	Decachlorobiphenyl	127%	10-172%
2051-24-3	Decachlorobiphenyl	128%	10-172%

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34853-BS1	8Y39995.D	1	08/12/21	TL	08/12/21	OP34853	G8Y1645

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13, JD29693-15, JD29693-16, JD29693-17, JD29693-18, JD29693-19, JD29693-20

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	CT-DRO (C9-C36)	53.3	35.1	66	32-122

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	56%	30-130%

8.2.1

8

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34849-BS1	1G168915.D	1	08/13/21	TC	08/12/21	OP34849	G1G5775

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13, JD29693-15

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	16.7	19.3	116	40-150
15972-60-8	Alachlor	16.7	15.5	93	37-150
319-84-6	alpha-BHC	16.7	15.2	91	37-150
319-85-7	beta-BHC	16.7	18.4	110	43-144
319-86-8	delta-BHC	16.7	16.4	98	15-142
58-89-9	gamma-BHC (Lindane)	16.7	15.1	91	39-148
60-57-1	Dieldrin	16.7	16.2	97	39-150
72-54-8	4,4'-DDD	16.7	15.7	94	36-144
72-55-9	4,4'-DDE	16.7	16.3	98	35-146
50-29-3	4,4'-DDT	16.7	17.9	107	36-152
72-20-8	Endrin	16.7	20.1	121	39-152
1031-07-8	Endosulfan sulfate	16.7	15.4	92	35-145
7421-93-4	Endrin aldehyde	16.7	17.1	103	34-143
959-98-8	Endosulfan-I	16.7	13.7	82 [a]	39-147
33213-65-9	Endosulfan-II	16.7	15.4	92	39-144
76-44-8	Heptachlor	16.7	16.2	97	40-149
1024-57-3	Heptachlor epoxide	16.7	15.6	94	39-149
72-43-5	Methoxychlor	16.7	16.4	98	35-145
53494-70-5	Endrin ketone	16.7	16.4	98	35-153

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	75%	27-138%
877-09-8	Tetrachloro-m-xylene	77%	27-138%
2051-24-3	Decachlorobiphenyl	94%	10-179%
2051-24-3	Decachlorobiphenyl	84%	10-179%

(a) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34851-BS1	6G78883.D	1	08/13/21	CP	08/12/21	OP34851	G6G2765

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD29693-16, JD29693-17, JD29693-18, JD29693-19, JD29693-20, JD29693-21, JD29693-22

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
309-00-2	Aldrin	16.7	15.7	94	40-150
15972-60-8	Alachlor	16.7	15.5	93	37-150
319-84-6	alpha-BHC	16.7	16.2	97	37-150
319-85-7	beta-BHC	16.7	15.3	92	43-144
319-86-8	delta-BHC	16.7	17.7	106	15-142
58-89-9	gamma-BHC (Lindane)	16.7	15.3	92	39-148
60-57-1	Dieldrin	16.7	16.4	98	39-150
72-54-8	4,4'-DDD	16.7	17.5	105	36-144
72-55-9	4,4'-DDE	16.7	16.9	101	35-146
50-29-3	4,4'-DDT	16.7	17.9	107	36-152
72-20-8	Endrin	16.7	18.6	112	39-152
1031-07-8	Endosulfan sulfate	16.7	17.2	103	35-145
7421-93-4	Endrin aldehyde	16.7	20.6	124	34-143
959-98-8	Endosulfan-I	16.7	16.8	101	39-147
33213-65-9	Endosulfan-II	16.7	17.2	103	39-144
76-44-8	Heptachlor	16.7	16.5	99	40-149
1024-57-3	Heptachlor epoxide	16.7	16.9	101	39-149
72-43-5	Methoxychlor	16.7	20.9	125	35-145
53494-70-5	Endrin ketone	16.7	18.2	109	35-153

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	96%	27-138%
877-09-8	Tetrachloro-m-xylene	91%	27-138%
2051-24-3	Decachlorobiphenyl	104%	10-179%
2051-24-3	Decachlorobiphenyl	104%	10-179%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34850-BS1	5G109258.D	1	08/13/21	TC	08/12/21	OP34850	G5G2755

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD29693-2, JD29693-4, JD29693-5, JD29693-6, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	200	610	305* [a]	39-169
11104-28-2	Aroclor 1221		ND		50-150
11141-16-5	Aroclor 1232		ND		50-150
53469-21-9	Aroclor 1242		ND		50-150
12672-29-6	Aroclor 1248		ND		50-150
11097-69-1	Aroclor 1254		ND		50-150
11096-82-5	Aroclor 1260	200	538	269* [a]	41-171
11100-14-4	Aroclor 1268		ND		50-150
37324-23-5	Aroclor 1262		ND		50-150

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	176%* [a]	24-152%
877-09-8	Tetrachloro-m-xylene	177%* [a]	24-152%
2051-24-3	Decachlorobiphenyl	214%* [a]	10-172%
2051-24-3	Decachlorobiphenyl	193%* [a]	10-172%

(a) Outside of in house control limits.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34852-BS1	5G109299.D	1	08/15/21	TL	08/13/21	OP34852	G5G2756

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD29693-15, JD29693-16, JD29693-17, JD29693-18, JD29693-19, JD29693-20, JD29693-21, JD29693-22

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	200	277	139	39-169
11104-28-2	Aroclor 1221		ND		50-150
11141-16-5	Aroclor 1232		ND		50-150
53469-21-9	Aroclor 1242		ND		50-150
12672-29-6	Aroclor 1248		ND		50-150
11097-69-1	Aroclor 1254		ND		50-150
11096-82-5	Aroclor 1260	200	271	136	41-171
11100-14-4	Aroclor 1268		ND		50-150
37324-23-5	Aroclor 1262		ND		50-150

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	95%	24-152%
877-09-8	Tetrachloro-m-xylene	94%	24-152%
2051-24-3	Decachlorobiphenyl	117%	10-172%
2051-24-3	Decachlorobiphenyl	103%	10-172%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34955-BS1	XX2469720.D	1	08/18/21	RK	08/17/21	OP34955	GXX7544

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD29693-1, JD29693-3, JD29693-7, JD29693-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	200	232	116	39-169
11104-28-2	Aroclor 1221		ND		50-150
11141-16-5	Aroclor 1232		ND		50-150
53469-21-9	Aroclor 1242		ND		50-150
12672-29-6	Aroclor 1248		ND		50-150
11097-69-1	Aroclor 1254		ND		50-150
11096-82-5	Aroclor 1260	200	248	124	41-171
11100-14-4	Aroclor 1268		ND		50-150
37324-23-5	Aroclor 1262		ND		50-150

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	119%	24-152%
877-09-8	Tetrachloro-m-xylene	119%	24-152%
2051-24-3	Decachlorobiphenyl	120%	10-172%
2051-24-3	Decachlorobiphenyl	124%	10-172%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34854-BS1	8Z40015.D	1	08/13/21	RK	08/12/21	OP34854	G8Z1726
OP34854-BSD	8Z40016.D	1	08/13/21	RK	08/12/21	OP34854	G8Z1726

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-21, JD29693-22

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	CT-DRO (C9-C36)	53.3	30.7	58	38.7	73	23	32-122/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	46%	62%	30-130%

8.3.1

8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34853-MS	8Z40006.D	1	08/13/21	TL	08/12/21	OP34853	G8Z1725
OP34853-MSD	8Z40007.D	1	08/13/21	TL	08/12/21	OP34853	G8Z1725
JD29693-19	8Z40005.D	1	08/12/21	TL	08/12/21	OP34853	G8Z1725

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13, JD29693-15, JD29693-16, JD29693-17, JD29693-18, JD29693-19, JD29693-20

CAS No.	Compound	JD29693-19 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	CT-DRO (C9-C36)	204		58.2	94.7	-188* [a]	61.7	105	-161* [a]	10	-5-148/93

CAS No.	Surrogate Recoveries	MS	MSD	JD29693-19	Limits
84-15-1	o-Terphenyl	68%	77%	75%	30-130%

(a) Outside control limits due to high level in sample relative to spike amount.

8.4.1

8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34849-MS	1G168917.D	1	08/13/21	TC	08/12/21	OP34849	G1G5775
OP34849-MSD	1G168918.D	1	08/13/21	TC	08/12/21	OP34849	G1G5775
JD29693-2	1G168916.D	1	08/13/21	TC	08/12/21	OP34849	G1G5775

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13, JD29693-15

CAS No.	Compound	JD29693-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		17.8	16.3	91	16.6	27.2	163	50	13-180/73
15972-60-8	Alachlor	ND		17.8	12.3	69	16.6	23.5	141	63	10-200/74
319-84-6	alpha-BHC	ND		17.8	14.0	78	16.6	24.6	148	55	16-173/64
319-85-7	beta-BHC	ND		17.8	21.0	118	16.6	19.5	117	7	10-186/86
319-86-8	delta-BHC	ND		17.8	16.1	90	16.6	22.2	133	32	10-161/78
58-89-9	gamma-BHC (Lindane)	ND		17.8	14.7	82	16.6	20.5	123	33	10-187/71
12789-03-6	Chlordane	ND			ND			ND		nc	30-150/30
60-57-1	Dieldrin	ND		17.8	14.5	81	16.6	23.5	141	47	10-187/64
72-54-8	4,4'-DDD	ND		17.8	14.8	83	16.6	20.1	121	30	10-182/69
72-55-9	4,4'-DDE	ND		17.8	16.6	93	16.6	20.6	124	22	10-185/68
50-29-3	4,4'-DDT	ND		17.8	19.2	108	16.6	22.6	136	16	10-200/76
72-20-8	Endrin	ND		17.8	17.1	96	16.6	24.4	147	35	10-193/73
1031-07-8	Endosulfan sulfate	ND		17.8	14.2	80	16.6	21.1	127	39	10-156/63
7421-93-4	Endrin aldehyde	ND		17.8	15.4	86	16.6	22.1	133	36	10-200/82
959-98-8	Endosulfan-I	ND		17.8	16.4	92	16.6	20.5	123	22	10-197/65
33213-65-9	Endosulfan-II	ND		17.8	14.0	78	16.6	20.3	122	37	8-169/60
76-44-8	Heptachlor	ND		17.8	15.7	88	16.6	21.6	130	32	10-187/65
1024-57-3	Heptachlor epoxide	ND		17.8	14.6	82	16.6	20.7	124	35	10-198/65
72-43-5	Methoxychlor	ND		17.8	15.9	89	16.6	21.7	130	31	10-200/80
53494-70-5	Endrin ketone	ND		17.8	15.8	89	16.6	19.9	120	23	10-200/66
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JD29693-2	Limits
877-09-8	Tetrachloro-m-xylene	71%	111%	77%	27-138%
877-09-8	Tetrachloro-m-xylene	74%	115%	80%	27-138%
2051-24-3	Decachlorobiphenyl	83%	120%	87%	10-179%
2051-24-3	Decachlorobiphenyl	78%	127%	84%	10-179%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34851-MS	8G39982.D	1	08/13/21	CP	08/12/21	OP34851	G8G1684
OP34851-MSD	8G39983.D	1	08/13/21	CP	08/12/21	OP34851	G8G1684
JD29693-19	8G39981.D	1	08/13/21	CP	08/12/21	OP34851	G8G1684

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD29693-16, JD29693-17, JD29693-18, JD29693-19, JD29693-20, JD29693-21, JD29693-22

CAS No.	Compound	JD29693-19 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		18	18.5	103	18.7	19.4	104	5	13-180/73
15972-60-8	Alachlor	ND		18	20.5	114	18.7	22.5	121	9	10-200/74
319-84-6	alpha-BHC	ND		18	17.7	98	18.7	16.7	90	6	16-173/64
319-85-7	beta-BHC	ND		18	37.0	206* [a]	18.7	58.1	311* [a]	44	10-186/86
319-86-8	delta-BHC	ND		18	18.0	100	18.7	17.5	94	3	10-161/78
58-89-9	gamma-BHC (Lindane)	ND		18	17.3	96	18.7	17.6	94	2	10-187/71
12789-03-6	Chlordane	ND			ND			ND		nc	30-150/30
60-57-1	Dieldrin	ND		18	16.8	93	18.7	17.0	91	1	10-187/64
72-54-8	4,4'-DDD	3.9		18	25.1	118	18.7	25.6	116	2	10-182/69
72-55-9	4,4'-DDE	ND		18	16.3	91	18.7	16.7	90	2	10-185/68
50-29-3	4,4'-DDT	5.2		18	26.8	120	18.7	29.0	128	8	10-200/76
72-20-8	Endrin	ND		18	20.3	113	18.7	18.8	101	8	10-193/73
1031-07-8	Endosulfan sulfate	ND		18	12.0	67	18.7	11.5	62	4	10-156/63
7421-93-4	Endrin aldehyde	ND		18	20.7	115	18.7	23.1	124	11	10-200/82
959-98-8	Endosulfan-I	ND		18	15.3	85	18.7	20.3	109	28	10-197/65
33213-65-9	Endosulfan-II	ND		18	16.9	94	18.7	16.4	88	3	8-169/60
76-44-8	Heptachlor	ND		18	16.4	91	18.7	15.1	81	8	10-187/65
1024-57-3	Heptachlor epoxide	ND		18	17.2	96	18.7	18.6	100	8	10-198/65
72-43-5	Methoxychlor	ND		18	19.4	108	18.7	21.2	114	9	10-200/80
53494-70-5	Endrin ketone	ND		18	26.9	150	18.7	33.4	179	22	10-200/66
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JD29693-19	Limits
877-09-8	Tetrachloro-m-xylene	92%	86%	73%	27-138%
877-09-8	Tetrachloro-m-xylene	100%	93%	80%	27-138%
2051-24-3	Decachlorobiphenyl	98%	98%	84%	10-179%
2051-24-3	Decachlorobiphenyl	180%* [a]	193%* [a]	131%	10-179%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34852-MS	5G109301.D	1	08/15/21	TL	08/13/21	OP34852	G5G2756
OP34852-MSD	5G109302.D	1	08/15/21	TL	08/13/21	OP34852	G5G2756
JD29693-19	5G109300.D	1	08/15/21	TL	08/13/21	OP34852	G5G2756

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD29693-15, JD29693-16, JD29693-17, JD29693-18, JD29693-19, JD29693-20, JD29693-21, JD29693-22

CAS No.	Compound	JD29693-19 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		223	272	122	229	254	111	7	14-200/59
11104-28-2	Aroclor 1221	ND			ND			ND		nc	50-150/30
11141-16-5	Aroclor 1232	ND			ND			ND		nc	50-150/30
53469-21-9	Aroclor 1242	ND			ND			ND		nc	50-150/11
12672-29-6	Aroclor 1248	ND			ND			ND		nc	50-150/25
11097-69-1	Aroclor 1254	ND			ND			ND		nc	50-150/37
11096-82-5	Aroclor 1260	ND		223	299	134	229	275	120	8	10-200/59
11100-14-4	Aroclor 1268	ND			ND			ND		nc	50-150/30
37324-23-5	Aroclor 1262	ND			ND			ND		nc	50-150/10

CAS No.	Surrogate Recoveries	MS	MSD	JD29693-19	Limits
877-09-8	Tetrachloro-m-xylene	95%	85%	86%	24-152%
877-09-8	Tetrachloro-m-xylene	97%	85%	95%	24-152%
2051-24-3	Decachlorobiphenyl	103%	95%	100%	10-172%
2051-24-3	Decachlorobiphenyl	98%	87%	94%	10-172%

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	G1G5775-CC5651	**Injection Date:**	08/13/21
Lab File ID:	1G168912.D	**Injection Time:**	14:01
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	167379792	1.86	759218687	1.57
Upper Limit [a]	334759584	2.36	1518437374	2.07
Lower Limit [b]	83689896	1.36	379609344	1.07

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP34849-MB1	178328618	1.86	779054018	1.58
OP34849-BS1	173635528	1.86	743997929	1.58
JD29693-2	177731422	1.86	782091824	1.58
OP34849-MS	185782753	1.86	812329231	1.58
OP34849-MSD	179235819	1.86	780094891	1.58
ZZZZZZ	176263950	1.86	776801714	1.57
ZZZZZZ	177337790	1.86	787091271	1.57
ZZZZZZ	164022413	1.86	748081083	1.58
ZZZZZZ	169598896	1.86	771797489	1.57

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	G6G2765-CC2739	**Injection Date:**	08/12/21
Lab File ID:	6G78872.D	**Injection Time:**	22:57
Instrument ID:	GC6G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	468350880	2.18	831519837	1.83
Upper Limit [a]	936701760	2.68	1663039674	2.33
Lower Limit [b]	234175440	1.68	415759919	1.33

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP34812-MB2	479055341	2.18	721819948	1.83
OP34812-BS2	427354265	2.18	738466611	1.84
OP34812-BSD	434148790	2.18	749331399	1.84
OP34812-LB14	443509526	2.18	763251708	1.84
ZZZZZZ	419136308	2.18	731613263	1.83
ZZZZZZ	445216844	2.18	761664442	1.84
ZZZZZZ	451225084	2.18	790922423	1.84
ZZZZZZ	451431603	2.18	804092864	1.83
OP34851-MB1	423409024	2.18	689863774	1.84
OP34851-BS1	418579571	2.18	719042133	1.84
ZZZZZZ	403231219	2.18	660694685	1.84
ZZZZZZ	416350042	2.19	709799850	1.84
ZZZZZZ	407501579	2.18	700897318	1.84
ZZZZZZ	414719825	2.18	688797348	1.83

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	G8G1684-CC1645	**Injection Date:**	08/13/21
Lab File ID:	8G39978.D	**Injection Time:**	02:14
Instrument ID:	GC8G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	516086243	2.04	141152689	1.58
Upper Limit [a]	1032172486	2.54	282305378	2.08
Lower Limit [b]	258043122	1.54	70576345	1.08

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP34851-MB1	508796475	2.04	139726203	1.58
JD29693-19	492307631	2.05	134447917	1.59
OP34851-MS	483456885	2.05	124489436	1.59
OP34851-MSD	494131159	2.04	128913766	1.57
JD29693-16	506232299	2.04	130088664	1.58
JD29693-17	519100751	2.04	133971633	1.57
JD29693-18	511941168	2.04	143024695	1.58
JD29693-20	518323101	2.04	137980647	1.57
JD29693-21	523508891	2.04	114575814	1.57
JD29693-22	522095582	2.04	115717909	1.57

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	G8G1686-CC1645	**Injection Date:**	08/13/21
Lab File ID:	8G39996.D	**Injection Time:**	21:00
Instrument ID:	GC8G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	510765965	2.03	124455188	1.57
Upper Limit [a]	1021531930	2.53	248910376	2.07
Lower Limit [b]	255382983	1.53	62227594	1.07

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP34849-MB1	512287611	2.03	118975708	1.57
JD29693-1	498154215	2.04	136096177	1.57
JD29693-3	512785593	2.04	129504678	1.57
JD29693-4	508815824	2.03	123719614	1.56
JD29693-5	512222332	2.03	123311798	1.56
JD29693-6	519670138	2.04	128696279	1.58
JD29693-7	422850463	2.04	138298125	1.58
JD29693-8	497510784	2.04	126793708	1.58
JD29693-9	524694433	2.04	127260576	1.57
JD29693-10	493416453	2.03	153349368	1.56
JD29693-11	405574814	2.04	67958230	1.58
JD29693-15	548717011	2.04	107054118	1.57

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	G8G1688-CC1645	**Injection Date:**	08/16/21
Lab File ID:	8G40021.D	**Injection Time:**	13:19
Instrument ID:	GC8G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	468940454	2.04	121464398	1.57
Upper Limit [a]	937880908	2.54	242928796	2.07
Lower Limit [b]	234470227	1.54	60732199	1.07

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
JD29693-18 [c]	490966525	2.04	129514590	1.57
JD29693-7	499121823	2.04	129536408	1.57
JD29693-11	459675400	2.04	99001102	1.57
ZZZZZZ	535717637	2.03	138249985	1.56
ZZZZZZ	512720989	2.04	131656352	1.56
ZZZZZZ	524031595	2.04	137427436	1.57
ZZZZZZ	542506598	2.03	136321430	1.56
ZZZZZZ	546144488	2.04	136673011	1.57
ZZZZZZ	519634127	2.04	128958889	1.57
ZZZZZZ	504166230	2.04	127688798	1.57
ZZZZZZ	538914630	2.04	135042719	1.57

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(c) Confirmation run.

Internal Standard Area Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	G8G1698-CC1645	**Injection Date:**	08/24/21
Lab File ID:	8G40177.D	**Injection Time:**	14:56
Instrument ID:	GC8G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	474206724	2.02	137812094	1.55
Upper Limit [a]	948413448	2.52	275624188	2.05
Lower Limit [b]	237103362	1.52	68906047	1.05

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
JD29693-12	548249521	2.02	165823911	1.55
JD29693-13	566791884	2.03	163696114	1.56
ZZZZZZ	483723499	2.03	152906836	1.56
OP35066-MB1	480346687	2.02	137871780	1.55
OP35065-MB1	480346687	2.02	137871780	1.55
OP35065-BS1	495606257	2.03	141544292	1.56
OP35066-BS1	495606257	2.03	141544292	1.56
OP34945-MSD	538137391	2.03	148961258	1.57
OP35066-LB32	483070725	2.03	138550424	1.56
OP35065-LB30	493543049	2.02	145602112	1.55
JD30181-1A	477351085	2.02	140178180	1.55
OP35065-MS	487856651	2.03	144505758	1.55
OP35065-LS30	487856651	2.03	144505758	1.55
OP35065-MSD	472505681	2.03	138398988	1.56
JD30211-1A	501624578	2.03	145918652	1.55
OP35066-LS32	497857001	2.03	144928317	1.56
OP35066-MS	497857001	2.03	144928317	1.56
OP35066-MSD	493409429	2.03	142894377	1.56
ZZZZZZ	501046151	2.03	145108108	1.56
ZZZZZZ	508349389	2.03	146155860	1.56
ZZZZZZ	518799101	2.03	148174804	1.56
ZZZZZZ	495218335	2.03	141757224	1.56

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

DDT/Endrin Breakdown Check

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample: G1G5651-DDT
Lab File ID: 1G166078.D
Instrument ID: GC1G
Injection Date: 05/13/21
Injection Time: 22:34

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	10771314	2325568
4,4'-DDE	19628625	4369331
4,4'-DDT	1543508901	381988516
DDT Breakdown [a]	1.9 %	1.7 %
Endrin aldehyde	0	0
Endrin ketone	5280959	23049144
Endrin	893692316	244261824
Endrin Breakdown [b]	0.6 %	8.6 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G5651-IC5651	1G166080.D	05/13/21	23:11	00:37	Initial cal 1
G1G5651-IC5651	1G166081.D	05/13/21	23:29	00:55	Initial cal 2
G1G5651-IC5651	1G166082.D	05/13/21	23:48	01:14	Initial cal 5
G1G5651-IC5651	1G166083.D	05/14/21	00:06	01:32	Initial cal 10
G1G5651-ICC5651	1G166084.D	05/14/21	00:24	01:50	Initial cal 25
G1G5651-IC5651	1G166085.D	05/14/21	00:43	02:09	Initial cal 50
G1G5651-IC5651	1G166086.D	05/14/21	01:01	02:27	Initial cal 75
G1G5651-IC5651	1G166087.D	05/14/21	01:19	02:45	Initial cal 100
G1G5651-IC5651	1G166088.D	05/14/21	01:38	03:04	Initial cal 500
G1G5651-IC5651	1G166089.D	05/14/21	01:56	03:22	Initial cal 500
G1G5651-ICV5651	1G166091.D	05/14/21	02:33	03:59	Initial cal verification 500
G1G5651-ICV5651	1G166092.D	05/14/21	02:51	04:17	Initial cal verification 500
G1G5651-ICV5651	1G166093.D	05/14/21	03:09	04:35	Initial cal verification 25
G1G5651-ICV5651	1G166094.D	05/14/21	03:28	04:54	Initial cal verification 25

DDT/Endrin Breakdown Check

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample: G1G5775-DDT
Lab File ID: 1G168911.D
Instrument ID: GC1G
Injection Date: 08/13/21
Injection Time: 13:43

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	11964344	3513601
4,4'-DDE	6726240	2063581
4,4'-DDT	1590404680	323383424
DDT Breakdown [a]	1.2 %	1.7 %
Endrin aldehyde	1650222	703493
Endrin ketone	20036931	1145834
Endrin	941836144	217272501
Endrin Breakdown [b]	2.3 %	0.8 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G5775-CC5651	1G168912.D	08/13/21	14:01	00:18	Continuing cal 25
OP34849-MB1	1G168914.D	08/13/21	14:38	00:55	Method Blank
OP34849-BS1	1G168915.D	08/13/21	14:56	01:13	Blank Spike
JD29693-2	1G168916.D	08/13/21	15:15	01:32	B-10-0204
OP34849-MS	1G168917.D	08/13/21	15:33	01:50	Matrix Spike
OP34849-MSD	1G168918.D	08/13/21	15:51	02:08	Matrix Spike Duplicate
ZZZZZZ	1G168920.D	08/13/21	16:27	02:44	(unrelated sample)
ZZZZZZ	1G168921.D	08/13/21	16:45	03:02	(unrelated sample)
ZZZZZZ	1G168922.D	08/13/21	17:03	03:20	(unrelated sample)
ZZZZZZ	1G168923.D	08/13/21	17:22	03:39	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample:	G6G2739-DDT	**Injection Date:**	06/18/21
Lab File ID:	6G78514.D	**Injection Time:**	03:27
Instrument ID:	GC6G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	14125074	6213265
4,4'-DDE	18705711	10181979
4,4'-DDT	1195238245	620563455
DDT Breakdown [a]	2.7 %	2.6 %
Endrin aldehyde	0	0
Endrin ketone	6569129	4036389
Endrin	774861152	383466685
Endrin Breakdown [b]	0.8 %	1 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G6G2739-IC2739	6G78516A.D	06/18/21	04:31	01:04	Initial cal 1
G6G2739-IC2739	6G78517.D	06/18/21	04:49	01:22	Initial cal 2
G6G2739-IC2739	6G78518.D	06/18/21	05:07	01:41	Initial cal 5
G6G2739-IC2739	6G78519.D	06/18/21	05:26	01:59	Initial cal 10
G6G2739-ICC2739	6G78520.D	06/18/21	05:44	02:17	Initial cal 25
G6G2739-IC2739	6G78521.D	06/18/21	06:02	02:36	Initial cal 50
G6G2739-IC2739	6G78522.D	06/18/21	06:21	02:54	Initial cal 75
G6G2739-IC2739	6G78523.D	06/18/21	06:39	03:12	Initial cal 100
G6G2739-IC2739	6G78524.D	06/18/21	06:57	03:31	Initial cal 500
G6G2739-IC2739	6G78525.D	06/18/21	07:16	03:49	Initial cal 500
G6G2739-ICV2739	6G78526.D	06/18/21	07:34	04:07	Initial cal verification 25
G6G2739-ICV2739	6G78527.D	06/18/21	07:52	04:25	Initial cal verification 500
G6G2739-ICV2739	6G78528.D	06/18/21	08:10	04:44	Initial cal verification 500
G6G2739-ICV2739	6G78529.D	06/18/21	08:29	05:02	Initial cal verification 25
G6G2739-ICV2739	6G78530.D	06/18/21	08:47	05:20	Initial cal verification 25
G6G2740-CC2739	6G78531.D	06/18/21	09:05	05:39	Continuing cal 25
G6G2740-CC2739	6G78533.D	06/18/21	09:42	06:15	Continuing cal 50

DDT/Endrin Breakdown Check

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample:	G6G2765-DDT	**Injection Date:**	08/12/21
Lab File ID:	6G78871.D	**Injection Time:**	22:39
Instrument ID:	GC6G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	16991726	5865052
4,4'-DDE	11276413	5438597
4,4'-DDT	1677125653	817852929
DDT Breakdown [a]	1.7 %	1.4 %
Endrin aldehyde	0	0
Endrin ketone	5582472	1443296
Endrin	1024094663	465138325
Endrin Breakdown [b]	0.5 %	0.3 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G6G2765-CC2739	6G78872.D	08/12/21	22:57	00:18	Continuing cal 50
OP34812-MB2	6G78874.D	08/12/21	23:33	00:54	Method Blank
OP34812-BS2	6G78875.D	08/12/21	23:51	01:13	Blank Spike
OP34812-BSD	6G78876.D	08/13/21	00:10	01:31	Blank Spike Duplicate
OP34812-LB14	6G78877.D	08/13/21	00:28	01:49	Leachate Blank
ZZZZZZ	6G78878.D	08/13/21	00:46	02:07	(unrelated sample)
ZZZZZZ	6G78879.D	08/13/21	01:14	02:35	(unrelated sample)
ZZZZZZ	6G78880.D	08/13/21	01:32	02:53	(unrelated sample)
ZZZZZZ	6G78881.D	08/13/21	01:50	03:11	(unrelated sample)
OP34851-MB1	6G78882.D	08/13/21	02:39	04:00	Method Blank
OP34851-BS1	6G78883.D	08/13/21	02:57	04:18	Blank Spike
ZZZZZZ	6G78886.D	08/13/21	03:51	05:12	(unrelated sample)
ZZZZZZ	6G78887.D	08/13/21	04:09	05:30	(unrelated sample)
ZZZZZZ	6G78888.D	08/13/21	04:39	06:00	(unrelated sample)
ZZZZZZ	6G78889.D	08/13/21	04:57	06:18	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample:	G8G1645-DDT	**Injection Date:**	07/13/21
Lab File ID:	8G39311.D	**Injection Time:**	01:56
Instrument ID:	GC8G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	2292447	8877380
4,4'-DDE	2123626	7239978
4,4'-DDT	274626741	1046167942
DDT Breakdown [a]	1.6 %	1.5 %
Endrin aldehyde	384550	2997646
Endrin ketone	1244474	16782839
Endrin	152475233	656426646
Endrin Breakdown [b]	1.1 %	2.9 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G1645-IC1645	8G39313.D	07/13/21	02:29	00:33	Initial cal 1
G8G1645-IC1645	8G39314.D	07/13/21	02:50	00:54	Initial cal 2
G8G1645-IC1645	8G39315.D	07/13/21	03:06	01:10	Initial cal 5
G8G1645-IC1645	8G39316.D	07/13/21	03:23	01:27	Initial cal 10
G8G1645-ICC1645	8G39317.D	07/13/21	03:42	01:46	Initial cal 25
G8G1645-IC1645	8G39318.D	07/13/21	04:02	02:06	Initial cal 50
G8G1645-IC1645	8G39319.D	07/13/21	04:19	02:23	Initial cal 75
G8G1645-IC1645	8G39320.D	07/13/21	04:35	02:39	Initial cal 100
G8G1645-IC1645	8G39321.D	07/13/21	04:51	02:55	Initial cal 500
G8G1645-IC1645	8G39322.D	07/13/21	05:08	03:12	Initial cal 500
G8G1645-ICV1645	8G39323.D	07/13/21	05:24	03:28	Initial cal verification 25
G8G1645-ICV1645	8G39324.D	07/13/21	05:40	03:44	Initial cal verification 500
G8G1645-ICV1645	8G39325.D	07/13/21	05:57	04:01	Initial cal verification 500
G8G1645-ICV1645	8G39326.D	07/13/21	06:13	04:17	Initial cal verification 25
G8G1645-ICV1645	8G39327.D	07/13/21	06:30	04:34	Initial cal verification 25

DDT/Endrin Breakdown Check

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample:	G8G1684-DDT	**Injection Date:**	08/13/21
Lab File ID:	8G39977.D	**Injection Time:**	01:57
Instrument ID:	GC8G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	3804196	15014816
4,4'-DDE	3758361	15300876
4,4'-DDT	263523839	978240877
DDT Breakdown [a]	2.8 %	3 %
Endrin aldehyde	1865285	3112274
Endrin ketone	2227271	37284599
Endrin	154197761	602328908
Endrin Breakdown [b]	2.6 %	6.3 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G1684-CC1645	8G39978.D	08/13/21	02:14	00:17	Continuing cal 25
OP34851-MB1	8G39980.D	08/13/21	02:48	00:51	Method Blank
JD29693-19	8G39981.D	08/13/21	03:04	01:07	B-2-0002
OP34851-MS	8G39982.D	08/13/21	03:20	01:23	Matrix Spike
OP34851-MSD	8G39983.D	08/13/21	03:37	01:40	Matrix Spike Duplicate
JD29693-16	8G39984.D	08/13/21	03:53	01:56	MW-4-0204
JD29693-17	8G39985.D	08/13/21	04:09	02:12	MW-1R-0002
JD29693-18	8G39986.D	08/13/21	04:26	02:29	MW-1R-0406
JD29693-20	8G39987.D	08/13/21	04:42	02:45	B-2-0507
JD29693-21	8G39988.D	08/13/21	04:58	03:01	B-3-0002
JD29693-22	8G39989.D	08/13/21	05:15	03:18	B-3-0305

DDT/Endrin Breakdown Check

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample:	G8G1686-DDT	**Injection Date:**	08/13/21
Lab File ID:	8G39995.D	**Injection Time:**	20:12
Instrument ID:	GC8G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	2864827	15383540
4,4'-DDE	1871538	7726679
4,4'-DDT	206147161	794869583
DDT Breakdown [a]	2.2 %	2.8 %
Endrin aldehyde	1087354	3997273
Endrin ketone	2435591	19234371
Endrin	122548702	546596240
Endrin Breakdown [b]	2.8 %	4.1 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G1686-CC1645	8G39996.D	08/13/21	21:00	00:48	Continuing cal 50
OP34849-MB1	8G39998.D	08/13/21	21:58	01:46	Method Blank
JD29693-1	8G39999.D	08/13/21	22:15	02:03	B-10-0002
JD29693-3	8G40000.D	08/13/21	22:31	02:19	B-7-0002
JD29693-4	8G40001.D	08/13/21	22:47	02:35	B-7-0507
JD29693-5	8G40002.D	08/13/21	23:04	02:52	B-9-0002
JD29693-6	8G40003.D	08/13/21	23:20	03:08	B-9-0305
JD29693-7	8G40004.D	08/13/21	23:36	03:24	B-8-0002
JD29693-8	8G40005.D	08/13/21	23:53	03:41	FD-01
JD29693-9	8G40006.D	08/14/21	00:09	03:57	B-8-0507
JD29693-10	8G40007.D	08/14/21	00:26	04:14	MW-6-0002
JD29693-11	8G40008.D	08/14/21	00:42	04:30	MW-6-0305
JD29693-15	8G40011.D	08/14/21	01:31	05:19	MW-4-0002

DDT/Endrin Breakdown Check

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample:	G8G1688-DDT	**Injection Date:**	08/16/21
Lab File ID:	8G40019.D	**Injection Time:**	12:47
Instrument ID:	GC8G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	2067282	10957286
4,4'-DDE	1997423	11658577
4,4'-DDT	207348658	811392540
DDT Breakdown [a]	1.9 %	2.7 %
Endrin aldehyde	1176923	3213747
Endrin ketone	1976969	43550876
Endrin	121456446	546183142
Endrin Breakdown [b]	2.5 %	7.9 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G1688-CC1645	8G40021.D	08/16/21	13:19	00:32	Continuing cal 50
JD29693-18	8G40023.D	08/16/21	14:02	01:15	MW-1R-0406
JD29693-7	8G40024.D	08/16/21	14:18	01:31	B-8-0002
JD29693-11	8G40025.D	08/16/21	14:34	01:47	MW-6-0305
ZZZZZZ	8G40027.D	08/16/21	15:48	03:01	(unrelated sample)
ZZZZZZ	8G40028.D	08/16/21	16:04	03:17	(unrelated sample)
ZZZZZZ	8G40029.D	08/16/21	16:21	03:34	(unrelated sample)
ZZZZZZ	8G40030.D	08/16/21	16:37	03:50	(unrelated sample)
ZZZZZZ	8G40031.D	08/16/21	16:53	04:06	(unrelated sample)
ZZZZZZ	8G40032.D	08/16/21	17:10	04:23	(unrelated sample)
ZZZZZZ	8G40033.D	08/16/21	17:26	04:39	(unrelated sample)
ZZZZZZ	8G40034.D	08/16/21	17:42	04:55	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample:	G8G1698-DDT	**Injection Date:**	08/24/21
Lab File ID:	8G40176.D	**Injection Time:**	14:39
Instrument ID:	GC8G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	1878225	6889883
4,4'-DDE	1438126	8040858
4,4'-DDT	233553827	741422913
DDT Breakdown [a]	1.4 %	2 %
Endrin aldehyde	2470581	3760888
Endrin ketone	869063	12172262
Endrin	141715345	517649321
Endrin Breakdown [b]	2.3 %	3 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G1698-CC1645	8G40177.D	08/24/21	14:56	00:17	Continuing cal 50
JD29693-12	8G40179.D	08/24/21	15:35	00:56	MW-5-0002
JD29693-13	8G40181.D	08/24/21	16:08	01:29	MW-05-0810
ZZZZZZ	8G40182.D	08/24/21	16:24	01:45	(unrelated sample)
OP35065-MB1	8G40183.D	08/24/21	16:40	02:01	Method Blank
OP35066-MB1	8G40183.D	08/24/21	16:40	02:01	Method Blank
OP35066-BS1	8G40184.D	08/24/21	16:57	02:18	Blank Spike
OP35065-BS1	8G40184.D	08/24/21	16:57	02:18	Blank Spike
OP34945-MSD	8G40185.D	08/24/21	17:15	02:36	Matrix Spike Duplicate
OP35066-LB32	8G40186.D	08/24/21	17:31	02:52	Leachate Blank
OP35065-LB30	8G40187.D	08/24/21	17:47	03:08	Leachate Blank
JD30181-1A	8G40188.D	08/24/21	18:04	03:25	(used for QC only; not part of job JD29693)
OP35065-MS	8G40189.D	08/24/21	18:20	03:41	Matrix Spike
OP35065-LS30	8G40189.D	08/24/21	18:20	03:41	Leachate Spike
OP35065-MSD	8G40190.D	08/24/21	18:36	03:57	Matrix Spike Duplicate
JD30211-1A	8G40191.D	08/24/21	18:53	04:14	(used for QC only; not part of job JD29693)
OP35066-MS	8G40192.D	08/24/21	19:09	04:30	Matrix Spike
OP35066-LS32	8G40192.D	08/24/21	19:09	04:30	Leachate Spike
OP35066-MSD	8G40193.D	08/24/21	19:26	04:47	Matrix Spike Duplicate
ZZZZZZ	8G40194.D	08/24/21	19:42	05:03	(unrelated sample)
ZZZZZZ	8G40195.D	08/24/21	19:58	05:19	(unrelated sample)
ZZZZZZ	8G40196.D	08/24/21	20:15	05:36	(unrelated sample)
ZZZZZZ	8G40197.D	08/24/21	20:31	05:52	(unrelated sample)
G8G1698-CC1645	8G40200.D	08/24/21	21:20	06:41	Continuing cal 25

DDT/Endrin Breakdown Check

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample:	G8G1698-DDT	**Injection Date:**	08/24/21
Lab File ID:	8G40176.D	**Injection Time:**	14:39
Instrument ID:	GC8G		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	8G40202.D	08/24/21	21:53	07:14	(unrelated sample)
ZZZZZZ	8G40203.D	08/24/21	22:09	07:30	(unrelated sample)
OP35066-LB29	8G40204.D	08/24/21	22:26	07:47	Leachate Blank

Surrogate Recovery Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: SW846 8081B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD29693-1	8G39999.D	91	105	167	314* [c]
JD29693-2	1G168916.D	77	80	87	84
JD29693-3	8G40000.D	91	99	83	119
JD29693-4	8G40001.D	69	72	66	67
JD29693-5	8G40002.D	89	101	88	131
JD29693-6	8G40003.D	75	80	73	83
JD29693-7	8G40024.D	110	109	170	276* [c]
JD29693-7	8G40004.D	93	129	104	283* [c]
JD29693-8	8G40005.D	67	72	68	131
JD29693-9	8G40006.D	75	80	67	70
JD29693-10	8G40007.D	62	83	87	530* [c]
JD29693-11	8G40025.D	161* [c]	94	1588* [c]	4096* [c]
JD29693-11	8G40008.D	151* [c]	104	2609* [c]	5118* [c]
JD29693-12	8G40179.D	64	69	63	72
JD29693-13	8G40181.D	63	65	64	68
JD29693-15	8G40011.D	112	94	102	121
JD29693-16	8G39984.D	61	67	59	73
JD29693-17	8G39985.D	63	69	65	226* [c]
JD29693-18	8G40023.D	61	59	74	124
JD29693-18	8G39986.D	55	63	61	119
JD29693-19	8G39981.D	73	80	84	131
JD29693-20	8G39987.D	73	76	69	86
JD29693-21	8G39988.D	66	69	56	194* [c]
JD29693-22	8G39989.D	81	87	83	189* [c]
OP34849-BS1	1G168915.D	75	77	94	84
OP34849-MB1	1G168914.D	123	127	141	136
OP34849-MB1	8G39998.D	128	127	136	146
OP34849-MS	1G168917.D	71	74	83	78
OP34849-MSD	1G168918.D	111	115	120	127
OP34851-BS1	6G78883.D	96	91	104	104
OP34851-MB1	6G78882.D	118	105	120	119
OP34851-MB1	8G39980.D	98	105	96	124
OP34851-MS	8G39982.D	92	100	98	180* [c]
OP34851-MSD	8G39983.D	86	93	98	193* [c]

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	27-138%
S2 = Decachlorobiphenyl	10-179%

8.7.1

8

Surrogate Recovery Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: SW846 8081B **Matrix:** SO

Samples and QC shown here apply to the above method

Surrogate Compounds	Recovery Limits

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2
(c) Outside control limits due to matrix interference.

Surrogate Recovery Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: SW846 8082A **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD29693-1	XX2469730.D	111	114	153	179* [c]
JD29693-1	XX2469772.D	117	105	159	162
JD29693-2	5G109271.D	136	138	154 [d]	142
JD29693-3	XX2469725.D	132	118	123	140
JD29693-4	5G109273.D	118	115	128	107
JD29693-5	5G109274.D	82	84	122	66
JD29693-6	5G109279.D	110	107	115	107
JD29693-7	XX2469732.D	125	127	118	145
JD29693-8	XX2469733.D	111	113	113	143
JD29693-9	5G109281.D	132	126	159 [d]	127
JD29693-10	5G109285.D	84	80	259* [c]	75
JD29693-11	5G109284.D	73	76	869* [c]	120
JD29693-12	5G109282.D	114	114	131	130
JD29693-13	5G109283.D	92	90	106	95
JD29693-15	5G109303.D	66	65	213* [c]	79
JD29693-16	5G109304.D	88	86	99	76
JD29693-17	5G109309.D	87	86	164 [d]	82
JD29693-18	5G109310.D	91	91	103	81
JD29693-19	5G109300.D	86	95	100	94
JD29693-20	5G109311.D	79	78	98	79
JD29693-21	5G109312.D	88	87	114	76
JD29693-22	5G109313.D	91	89	99	77
OP34850-BS1	5G109258.D	176* [e]	177* [e]	214* [e]	193* [e]
OP34850-MB1	5G109257.D	108	105	122	113
OP34852-BS1	5G109299.D	95	94	117	103
OP34852-MB1	5G109298.D	95	94	115	104
OP34852-MS	5G109301.D	95	97	103	98
OP34852-MSD	5G109302.D	85	85	95	87
OP34955-BS1	XX2469720.D	119	119	120	124
OP34955-MB1	XX2469719.D	124	120	127	128

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	24-152%
S2 = Decachlorobiphenyl	10-172%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2
(c) Outside control limits due to matrix interference.

Surrogate Recovery Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: SW846 8082A **Matrix:** SO

Samples and QC shown here apply to the above method

Surrogate Compounds	Recovery Limits

(d) Outside program requirements due to matrix interference.
(e) Outside of in house control limits.

Surrogate Recovery Summary

Job Number: JD29693
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: CT-ETPH **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
JD29693-1	8Y40005.D	53
JD29693-2	8Y39997.D	58
JD29693-3	8Y40003.D	44
JD29693-4	8Y39998.D	61
JD29693-5	8Y39999.D	50
JD29693-6	8Y40004.D	57
JD29693-7	8Y40006.D	62
JD29693-8	8Y40007.D	66
JD29693-9	8Y40000.D	43
JD29693-10	8Y40008.D	48
JD29693-11	8Z40085.D	113
JD29693-11	8Y40009.D	61
JD29693-12	8Y40001A.D	60
JD29693-13	8Y40002A.D	61
JD29693-15	8Z40008.D	54
JD29693-16	8Z40002A.D	69
JD29693-17	8Z40009.D	66
JD29693-18	8Z40003.D	56
JD29693-19	8Z40005.D	75
JD29693-20	8Z40004.D	78
JD29693-21	8Y40021.D	55
JD29693-22	8Y40022.D	56
OP34853-BS1	8Y39995.D	56
OP34853-MB1	8Z40001A.D	83
OP34853-MB1	8Y39996.D	73
OP34853-MS	8Z40006.D	68
OP34853-MSD	8Z40007.D	77
OP34854-BS1	8Z40015.D	46
OP34854-BSD	8Z40016.D	62
OP34854-MB1	8Y40015.D	51
OP34854-MB1	8Z40017.D	59

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	30-130%

(a) Recovery from GC signal #1

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28177
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 08/20/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	1.6	8.1		
Antimony	2.0	.25	.41	-0.030	<2.0
Arsenic	2.0	.2	.28	0.010	<2.0
Barium	20	.04	1.9	0.040	<20
Beryllium	0.20	.01	.08	0.0	<0.20
Bismuth	2.0	.36	.52		
Boron	10	.19	3.7		
Cadmium	0.50	.04	.07	0.020	<0.50
Calcium	500	.56	21		
Chromium	1.0	.05	.37	0.090	<1.0
Cobalt	5.0	.05	.28		
Copper	2.5	.1	.84	0.080	<2.5
Iron	50	1.1	19		
Lead	2.0	.12	.41	0.040	<2.0
Lithium	5.0	.23	.92		
Magnesium	500	6.5	14		
Manganese	1.5	.02	.41		
Molybdenum	2.0	.04	.32		
Nickel	4.0	.03	.35	0.060	<4.0
Phosphorus	20	.41	3.3		
Potassium	1000	5.5	32		
Selenium	2.0	.35	.65	0.18	<2.0
Silicon	20	.16	11		
Silver	0.50	.11	.17	0.0	<0.50
Sodium	1000	1.1	78		
Strontium	5.0	.01	.18		
Sulfur	10	.44	3.9		
Thallium	1.0	.25	.58	-0.020	<1.0
Tin	20	.1	3.8		
Titanium	1.0	.04	.34		
Tungsten	5.0	.28	1.8		
Vanadium	5.0	.06	.19	-0.010	<5.0
Zinc	5.0	.01	2.3	1.2	<5.0

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28177
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 08/20/21

Metal	RL	IDL	MDL	MB raw	final
Zirconium	2.0	.04	.54		

Associated samples MP28177: JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13, JD29693-15, JD29693-16, JD29693-17, JD29693-18, JD29693-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28177
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 08/20/21

Metal	JD29693-19 Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	anr				
Antimony	19.7	187	234	71.6N(a)	75-125
Arsenic	15.4	225	234	89.8	75-125
Barium	129	357	234	97.6	75-125
Beryllium	0.61	216	234	92.2	75-125
Bismuth					
Boron					
Cadmium	1.2	219	234	93.3	75-125
Calcium	anr				
Chromium	9.8	224	234	91.7	75-125
Cobalt	anr				
Copper	357	619	234	112.2	75-125
Iron	anr				
Lead	1140	1680	234	231.2(b)	75-125
Lithium					
Magnesium	anr				
Manganese	anr				
Molybdenum					
Nickel	12.6	229	234	92.7	75-125
Phosphorus					
Potassium	anr				
Selenium	0.82	205	234	87.4	75-125
Silicon					
Silver	0.98	28.2	29.2	93.3	75-125
Sodium	anr				
Strontium					
Sulfur					
Thallium	0.39	206	234	88.1	75-125
Tin					
Titanium					
Tungsten					
Vanadium	20.3	233	234	91.1	75-125
Zinc	552	713	234	68.9N(a)	75-125

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28177
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 08/20/21

Metal	JD29693-19 Original MS	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP28177: JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13, JD29693-15, JD29693-16, JD29693-17, JD29693-18, JD29693-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28177
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 08/20/21

Metal	JD29693-19 Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	19.7	180	241	66.6N(a)	3.8	20
Arsenic	15.4	239	241	92.9	6.0	20
Barium	129	357	241	94.7	0.0	20
Beryllium	0.61	226	241	93.7	4.5	20
Bismuth						
Boron						
Cadmium	1.2	230	241	95.1	4.9	20
Calcium	anr					
Chromium	9.8	234	241	93.2	4.4	20
Cobalt	anr					
Copper	357	707	241	145.4N(a	13.3	20
Iron	anr					
Lead	1140	1250	241	45.7 (b)	29.4 (c)	20
Lithium						
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	12.6	238	241	93.7	3.9	20
Phosphorus						
Potassium	anr					
Selenium	0.82	219	241	90.7	6.6	20
Silicon						
Silver	0.98	29.4	30.1	94.5	4.2	20
Sodium	anr					
Strontium						
Sulfur						
Thallium	0.39	217	241	90.0	5.2	20
Tin						
Titanium						
Tungsten						
Vanadium	20.3	242	241	92.1	3.8	20
Zinc	552	954	241	167.0N(a	28.9 (c)	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28177 | Methods: SW846 6010D
Matrix Type: SOLID | Units: mg/kg

Prep Date: 08/20/21

Metal	JD29693-19 Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zirconium					

Associated samples MP28177: JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13, JD29693-15, JD29693-16, JD29693-17, JD29693-18, JD29693-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
(c) High rpd due to possible sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28177
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 08/20/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	anr			
Antimony	194	200	97.0	80-120
Arsenic	192	200	96.0	80-120
Barium	189	200	94.5	80-120
Beryllium	192	200	96.0	80-120
Bismuth				
Boron				
Cadmium	193	200	96.5	80-120
Calcium	anr			
Chromium	193	200	96.5	80-120
Cobalt	anr			
Copper	186	200	93.0	80-120
Iron	anr			
Lead	192	200	96.0	80-120
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	191	200	95.5	80-120
Phosphorus				
Potassium	anr			
Selenium	187	200	93.5	80-120
Silicon				
Silver	23.7	25	94.8	80-120
Sodium	anr			
Strontium				
Sulfur				
Thallium	192	200	96.0	80-120
Tin				
Titanium				
Tungsten				
Vanadium	191	200	95.5	80-120
Zinc	197	200	98.5	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28177
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 08/20/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP28177: JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13, JD29693-15, JD29693-16, JD29693-17, JD29693-18, JD29693-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28177
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 08/20/21

Metal	JD29693-19 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	172	182	5.9	0-10
Arsenic	135	146	8.6	0-10
Barium	1130	1230	8.7	0-10
Beryllium	5.30	5.60	5.7	0-10
Bismuth				
Boron				
Cadmium	10.8	12.0	11.1 (a)	0-10
Calcium	anr			
Chromium	85.7	94.0	9.7	0-10
Cobalt	anr			
Copper	3120	3160	1.4	0-10
Iron	anr			
Lead	9960	10100	0.9	0-10
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	110	116	4.9	0-10
Phosphorus				
Potassium	anr			
Selenium	7.20	0.00	100.0(a)	0-10
Silicon				
Silver	8.60	8.70	1.2	0-10
Sodium	anr			
Strontium				
Sulfur				
Thallium	3.40	0.00	100.0(a)	0-10
Tin				
Titanium				
Tungsten				
Vanadium	177	191	7.6	0-10
Zinc	4820	5350	11.1*(b)	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28177 | Methods: SW846 6010D
Matrix Type: SOLID | Units: ug/l

Prep Date: 08/20/21

Metal	JD29693-19 Original SDL 1:5	%DIF	QC Limits
Zirconium			

Associated samples MP28177: JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13, JD29693-15, JD29693-16, JD29693-17, JD29693-18, JD29693-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

POST DIGESTATE SPIKE SUMMARY

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28177
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 08/20/21

Metal	Sample ml	Final ml	JD29693-19 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	19.25	20	172.2	165.7425	2152	0.2	200	2000	99.3	80-120
Arsenic										
Barium										
Beryllium										
Bismuth										
Boron										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead										
Lithium										
Magnesium										
Manganese										
Molybdenum										
Nickel										
Phosphorus										
Potassium										
Selenium										
Silicon										
Silver										
Sodium										
Strontium										
Sulfur										
Thallium										
Tin										
Titanium										
Tungsten										
Vanadium										
Zinc										

POST DIGESTATE SPIKE SUMMARY

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28177
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 08/20/21

Metal	Sample ml	Final ml	JD29693-19 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Zirconium										

Associated samples MP28177: JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13, JD29693-15, JD29693-16, JD29693-17, JD29693-18, JD29693-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28178
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 08/23/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.92	8.1		
Antimony	2.0	.28	.41	0.12	<2.0
Arsenic	2.0	.26	.28	-0.050	<2.0
Barium	20	.02	1.9	0.030	<20
Beryllium	0.20	.02	.08	0.0	<0.20
Bismuth	2.0	.25	.52		
Boron	10	.18	3.7		
Cadmium	0.50	.04	.07	0.030	<0.50
Calcium	500	1.3	21		
Chromium	1.0	.07	.37	0.050	<1.0
Cobalt	5.0	.06	.28		
Copper	2.5	.07	.84	0.24	<2.5
Iron	50	.33	19		
Lead	2.0	.2	.41	0.20	<2.0
Lithium	5.0	.15	.92		
Magnesium	500	2.5	14		
Manganese	1.5	.01	.41		
Molybdenum	2.0	.06	.32		
Nickel	4.0	.08	.35	0.050	<4.0
Phosphorus	20	.7	3.3		
Potassium	1000	3.5	32		
Selenium	2.0	.36	.65	0.13	<2.0
Silicon	20	.22	11		
Silver	0.50	.06	.17	0.020	<0.50
Sodium	1000	1.4	78		
Strontium	5.0	.01	.18		
Sulfur	10	.37	3.9		
Thallium	1.0	.52	.58	0.15	<1.0
Tin	20	.14	3.8		
Titanium	1.0	.08	.34		
Tungsten	5.0	.13	1.8		
Vanadium	5.0	.05	.19	0.020	<5.0
Zinc	5.0	.03	2.3	1.5	<5.0

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28178 | Methods: SW846 6010D
Matrix Type: SOLID | Units: mg/kg

Prep Date: 08/23/21

Metal	RL	IDL	MDL	MB raw	final
Zirconium	2.0	.05	.54		

Associated samples MP28178: JD29693-20, JD29693-21, JD29693-22

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28178
Matrix Type: SOLID

Methods: SW846 6010D
Units: mg/kg

Prep Date: 08/23/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	anr			
Antimony	189	200	94.5	80-120
Arsenic	192	200	96.0	80-120
Barium	185	200	92.5	80-120
Beryllium	189	200	94.5	80-120
Bismuth				
Boron				
Cadmium	184	200	92.0	80-120
Calcium	anr			
Chromium	189	200	94.5	80-120
Cobalt	anr			
Copper	184	200	92.0	80-120
Iron	anr			
Lead	193	200	96.5	80-120
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	193	200	96.5	80-120
Phosphorus				
Potassium	anr			
Selenium	183	200	91.5	80-120
Silicon				
Silver	23.7	25	94.8	80-120
Sodium	anr			
Strontium				
Sulfur				
Thallium	196	200	98.0	80-120
Tin				
Titanium				
Tungsten				
Vanadium	187	200	93.5	80-120
Zinc	190	200	95.0	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28178 | Methods: SW846 6010D
Matrix Type: SOLID | Units: mg/kg

Prep Date: 08/23/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP28178: JD29693-20, JD29693-21, JD29693-22

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28178
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 08/23/21

Metal	JD30032-2 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	0.00	0.00	NC	0-10
Arsenic	7.90	0.00	100.0(a)	0-10
Barium	1380	1520	13.9*(b)	0-10
Beryllium	17.4	19.8	15.1*(b)	0-10
Bismuth				
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium	anr			
Chromium	318	358	12.7*(b)	0-10
Cobalt	anr			
Copper	544	550	1.1	0-10
Iron	anr			
Lead	166	155	0.1	0-10
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	431	472	14.4*(b)	0-10
Phosphorus				
Potassium	anr			
Selenium	11.7	0.00	NC	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium	anr			
Strontium				
Sulfur				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Tungsten				
Vanadium	332	395	18.7*(b)	0-10
Zinc	1150	1210	18.7*(b)	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28178 | Methods: SW846 6010D
Matrix Type: SOLID | Units: ug/l

Prep Date: 08/23/21

Metal	JD30032-2 Original SDL 1:5	%DIF	QC Limits
Zirconium			

Associated samples MP28178: JD29693-20, JD29693-21, JD29693-22

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

POST DIGESTATE SPIKE SUMMARY

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28178
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 08/23/21

Metal	Sample ml	Final ml	JD30032-2 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony	19.25	20			2167	0.2	200	2000	108.4	80-120
Arsenic										
Barium										
Beryllium										
Bismuth										
Boron										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron										
Lead										
Lithium										
Magnesium										
Manganese										
Molybdenum										
Nickel										
Phosphorus										
Potassium										
Selenium										
Silicon										
Silver										
Sodium										
Strontium										
Sulfur										
Thallium										
Tin										
Titanium										
Tungsten										
Vanadium										
Zinc										

POST DIGESTATE SPIKE SUMMARY

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28178
Matrix Type: SOLID

Methods: SW846 6010D
Units: ug/l

Prep Date: 08/23/21

Metal	Sample ml	Final ml	JD30032-2 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Zirconium										

Associated samples MP28178: JD29693-20, JD29693-21, JD29693-22

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28186 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 08/20/21

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0057	.015	0.0043	<0.033

Associated samples MP28186: JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13, JD29693-15, JD29693-16, JD29693-17, JD29693-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28186
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/20/21

Metal	JD29693-19 Original	MS	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.84	1.2	0.369	84.0	80-120

Associated samples MP28186: JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13, JD29693-15, JD29693-16, JD29693-17, JD29693-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28186 | Methods: SW846 7471B
Matrix Type: SOLID | Units: mg/kg

Prep Date: 08/20/21

Metal	JD29693-19 Original	MSD	Spikelot HGPWS1	% Rec	MSD RPD	QC Limit
Mercury	0.84	1.2	0.379	81.8	0.0	20

Associated samples MP28186: JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13, JD29693-15, JD29693-16, JD29693-17, JD29693-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28186
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/20/21

Metal	BSP Result	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.27	0.333	81.0	80-120

Associated samples MP28186: JD29693-1, JD29693-2, JD29693-3, JD29693-4, JD29693-5, JD29693-6, JD29693-7, JD29693-8, JD29693-9, JD29693-10, JD29693-11, JD29693-12, JD29693-13, JD29693-15, JD29693-16, JD29693-17, JD29693-19

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28187 Methods: SW846 7471B
Matrix Type: SOLID Units: mg/kg

Prep Date: 08/20/21

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0057	.015	0.0024	<0.033

Associated samples MP28187: JD29693-18, JD29693-20, JD29693-21, JD29693-22

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD29693
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28187
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 08/20/21

Metal	BSP Result	Spikelot HGPWS1	% Rec	QC Limits
Mercury	0.34	0.333	102.0	80-120

Associated samples MP28187: JD29693-18, JD29693-20, JD29693-21, JD29693-22

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.4.2

9

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Nobis Engineering, Inc.

43 Hempstead Street, New London, CT

93203.15 PO#93203.15/200

SGS Job Number: JD29693R

Sampling Dates: 08/09/21 - 08/10/21

Report to:

Nobis Engineering, Inc.
585 Middlesex Street
Lowell, MA 01851
jbrunelle@nobis-group.com; ARoy@nobis-group.com;
gglennon@nobis-group.com
ATTN: Jeff Brunelle

Total number of pages in report: **103**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

SGS is the sole authority for authorizing edits or modifications to this document.
Unauthorized modification of this report is strictly prohibited.
Review standard terms at: http://www.sgs.com/en/terms-and-conditions
Please share your ideas about
how we can serve you better at:
EHS.US.CustomerCare@sgs.com

November 2, 2021

Mr. Jeff Brunelle
Nobis Engineering, Inc.
585 Middlesex Street
Lowell, MA 01851

RE: SGS – Dayton, Job # JD29693R– Reissues

Dear Mr. Brunelle,

The final report for SGS job number JD29693R has been edited to reflect corrections to the results. These edits have been incorporated into the revised report which is attached.

Specifically, additional elements (SPLP SB, BE, SU, NI, TL, VA, and ZN) have been retrieved/ reported for JD29693-2R, -3R, -15R, -16R, -19R per Mr. Garry Glenon's request on 10/11/2021. The attached revised report incorporates these revisions.

SGS apologizes for this occurrence and for any inconvenience this situation may have caused. Please contact me if I can be of further assistance in this matter.

Sincerely,

Report Department

SGS North America Inc.

SGS North America Inc. | Mid-Atlantic 2235 US Highway 130 Dayton, NJ 08810, USA t +1 (0)732 329 0200 www.sgs.com
Member of the SGS Group (SGS SA)

Table of Contents

-1-

Section 1: Sample Summary 4
Section 2: Case Narrative/Conformance Summary 5
Section 3: Summary of Hits 7
Section 4: Sample Results 11
- **4.1:** JD29693-1R: B-10-0002 12
- **4.2:** JD29693-2R: B-10-0204 14
- **4.3:** JD29693-3R: B-7-0002 16
- **4.4:** JD29693-7R: B-8-0002 18
- **4.5:** JD29693-8R: FD-01 20
- **4.6:** JD29693-11R: MW-6-0305 22
- **4.7:** JD29693-15R: MW-4-0002 25
- **4.8:** JD29693-16R: MW-4-0204 28
- **4.9:** JD29693-17R: MW-1R-0002 30
- **4.10:** JD29693-19R: B-2-0002 32
- **4.11:** JD29693-21R: B-3-0002 35
- **4.12:** JD29693-22R: B-3-0305 38

Section 5: Misc. Forms 41
- **5.1:** Chain of Custody 42
- **5.2:** RCP Form 50
- **5.3:** Sample Tracking Chronicle 51
- **5.4:** QC Evaluation: CT RCP Limits 54

Section 6: MS Semi-volatiles - QC Data Summaries 55
- **6.1:** Method Blank Summary 56
- **6.2:** Leachate Blank Summary 57
- **6.3:** Blank Spike Summary 58
- **6.4:** Matrix Spike/Matrix Spike Duplicate Summary 59
- **6.5:** Leachate Spike Summary 60
- **6.6:** Internal Standard Area Summaries 61
- **6.7:** Surrogate Recovery Summaries 63

Section 7: GC/LC Semi-volatiles - QC Data Summaries 64
- **7.1:** Method Blank Summary 65
- **7.2:** Leachate Blank Summary 68
- **7.3:** Blank Spike/Blank Spike Duplicate Summary 70
- **7.4:** Matrix Spike/Matrix Spike Duplicate Summary 72
- **7.5:** Leachate Spike Summary 73
- **7.6:** Surrogate Recovery Summaries 74

Section 8: Metals Analysis - QC Data Summaries 75
- **8.1:** Prep QC MP28466: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Ag,Tl,V,Zn 76
- **8.2:** Prep QC MP28467: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Ag,Tl,V,Zn 86
- **8.3:** Prep QC MP28493: Hg 96
- **8.4:** Prep QC MP28494: Hg 100

SGS North America Inc.

Sample Summary

Nobis Engineering, Inc.

Job No: JD29693R

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the RL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD29693-1R	08/09/21	09:15	AE	08/10/21	SO	Soil	B-10-0002
JD29693-2R	08/09/21	09:20	AE	08/10/21	SO	Soil	B-10-0204
JD29693-3R	08/09/21	09:45	AE	08/10/21	SO	Soil	B-7-0002
JD29693-7R	08/09/21	10:20	AE	08/10/21	SO	Soil	B-8-0002
JD29693-8R	08/09/21	16:00	AE	08/10/21	SO	Soil	FD-01
JD29693-11R	08/09/21	12:15	AE	08/10/21	SO	Soil	MW-6-0305
JD29693-15R	08/10/21	09:15	AE	08/10/21	SO	Soil	MW-4-0002
JD29693-16R	08/10/21	09:25	AE	08/10/21	SO	Soil	MW-4-0204
JD29693-17R	08/10/21	11:00	AE	08/10/21	SO	Soil	MW-1R-0002
JD29693-19R	08/10/21	13:05	AE	08/10/21	SO	Soil	B-2-0002
JD29693-21R	08/10/21	13:25	AE	08/10/21	SO	Soil	B-3-0002
JD29693-22R	08/10/21	13:30	AE	08/10/21	SO	Soil	B-3-0305

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Nobis Engineering, Inc.	**Job No:**	JD29693R
Site:	43 Hempstead Street, New London, CT	**Report Date**	11/2/2021 10:02:32 A

On 08/10/2021, 12 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.7 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD29693R was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: LEACHATE **Batch ID:** OP35296

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29693-15RLS, JD29693-15RMS, JD29693-15RMSD, JD29693-15RLS were used as the QC samples indicated.
- Matrix Spike/Leachate Spike Recovery(s) for Benzo(a)pyrene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Pyrene are outside control limits. Outside control limits due to matrix interference
- RPD(s) for MSD for Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Naphthalene, Pyrene are outside control limits for sample OP35296-MSD.
- OP35296-MSD for Fluorene: Outside control limits due to high level in sample relative to spike amount
- OP35296-MSD for Phenanthrene: Outside control limits due to high level in sample relative to spike amount
- Only report PAHs.

GC/LC Semi-volatiles By Method CT-ETPH

Matrix: LEACHATE **Batch ID:** OP35297

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- OP35297-LB18 for o-Terphenyl: Outside of in house control limits.

Matrix: LEACHATE **Batch ID:** OP35551

- All samples were extracted within the recommended method holding time.
- Sample(s) JD29693-7RLS, JD29693-7RMS, JD29693-7RMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method SW846 6010D

Matrix: LEACHATE **Batch ID:** MP28466

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29693-2RMS, JD29693-2RMSD, JD29693-2RSDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Beryllium, Cadmium, Copper, Lead, Nickel, Selenium, Silver, Thallium are outside control limits for sample MP28466-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP28466-SD1 for Zinc: Serial dilution indicates possible matrix interference.
- Not all RLs meet RCP requirement

Matrix: LEACHATE **Batch ID:** MP28467

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29693-19RMS, JD29693-19RMSD, JD29693-19RSDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Antimony, Barium, Chromium, Copper, Lead are outside control limits for sample MP28467-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP28467-SD1 for Zinc: Serial dilution indicates possible matrix interference.
- Not all RLs meet RCP requirement

Metals Analysis By Method SW846 7470A

Matrix: LEACHATE **Batch ID:** MP28493

- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29693-2RMS, JD29693-2RMSD were used as the QC samples for metals.
- JD29693-3R for Mercury: Analyzed beyond Holdtime.
- JD29693-2R for Mercury: Analyzed beyond Holdtime.
- JD29693-16R for Mercury: Analyzed beyond Holdtime.

Matrix: LEACHATE **Batch ID:** MP28494

- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29693-19RMS, JD29693-19RMSD were used as the QC samples for metals.
- JD29693-15R for Mercury: Analyzed beyond Holdtime.
- JD29693-19R for Mercury: Analyzed beyond Holdtime.

General Chemistry By Method SW846 1312

Matrix: ALL **Batch ID:** GN21596

- The data for SW846 1312 meets quality control requirements.

Matrix: ALL **Batch ID:** GN21597

- The data for SW846 1312 meets quality control requirements.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD29693R
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

3

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD29693-1R	**B-10-0002**					
pH, SPLP Leachate		8.60			su	SW846 1312
Volume, SPLP Leachate		2.000			l	SW846 1312
Weight, SPLP Leachate		0.1000			kg	SW846 1312
Dry Weight, SPLP Leachate		0.08652			kg	SW846 1312
JD29693-2R	**B-10-0204**					
pH, SPLP Leachate		7.25			su	SW846 1312
Volume, SPLP Leachate		2.007			l	SW846 1312
Weight, SPLP Leachate		0.1003			kg	SW846 1312
Dry Weight, SPLP Leachate		0.09190			kg	SW846 1312
Copper		11.9	10		ug/l	SW846 6010D
Lead		17.3	15		ug/l	SW846 6010D
Vanadium		207	50		ug/l	SW846 6010D
JD29693-3R	**B-7-0002**					
pH, SPLP Leachate		7.69			su	SW846 1312
Volume, SPLP Leachate		2.012			l	SW846 1312
Weight, SPLP Leachate		0.1006			kg	SW846 1312
Dry Weight, SPLP Leachate		0.08933			kg	SW846 1312
Copper		15.5	10		ug/l	SW846 6010D
Lead		109	15		ug/l	SW846 6010D
Mercury [a]		0.00020	0.00020		mg/l	SW846 7470A
JD29693-7R	**B-8-0002**					
pH, SPLP Leachate		9.20			su	SW846 1312
Volume, SPLP Leachate		2.016			l	SW846 1312
Weight, SPLP Leachate		0.1008			kg	SW846 1312
Dry Weight, SPLP Leachate		0.08123			kg	SW846 1312
CT-DRO (C9-C36)		0.137	0.098		mg/l	CT-ETPH
JD29693-8R	**FD-01**					
pH, SPLP Leachate		9.03			su	SW846 1312
Volume, SPLP Leachate		2.013			l	SW846 1312
Weight, SPLP Leachate		0.1006			kg	SW846 1312
Dry Weight, SPLP Leachate		0.08252			kg	SW846 1312
Acenaphthene		0.000442	0.00010		mg/l	SW846 8270E BY SIM
Acenaphthylene		0.000132	0.00010		mg/l	SW846 8270E BY SIM
Fluorene		0.000325	0.00010		mg/l	SW846 8270E BY SIM
Naphthalene		0.000247	0.00010		mg/l	SW846 8270E BY SIM

Summary of Hits

Job Number: JD29693R
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Phenanthrene		0.000461	0.000050		mg/l	SW846 8270E BY SIM
JD29693-11R	**MW-6-0305**					
pH, SPLP Leachate		7.95			su	SW846 1312
Volume, SPLP Leachate		2.011			l	SW846 1312
Weight, SPLP Leachate		0.1005			kg	SW846 1312
Dry Weight, SPLP Leachate		0.08596			kg	SW846 1312
Acenaphthene		0.00143	0.00010		mg/l	SW846 8270E BY SIM
Acenaphthylene		0.000916	0.00010		mg/l	SW846 8270E BY SIM
Anthracene		0.000764	0.00010		mg/l	SW846 8270E BY SIM
Benzo(a)anthracene		0.000241	0.000050		mg/l	SW846 8270E BY SIM
Benzo(a)pyrene		0.000119	0.000050		mg/l	SW846 8270E BY SIM
Benzo(b)fluoranthene		0.000189	0.000050		mg/l	SW846 8270E BY SIM
Chrysene		0.000215	0.00010		mg/l	SW846 8270E BY SIM
Fluoranthene		0.00192	0.00010		mg/l	SW846 8270E BY SIM
Fluorene		0.00152	0.00010		mg/l	SW846 8270E BY SIM
Naphthalene		0.000337	0.00010		mg/l	SW846 8270E BY SIM
Phenanthrene		0.00284	0.000050		mg/l	SW846 8270E BY SIM
Pyrene		0.00163	0.00010		mg/l	SW846 8270E BY SIM
CT-DRO (C9-C36)		0.0980	0.096		mg/l	CT-ETPH
JD29693-15R	**MW-4-0002**					
pH, SPLP Leachate		8.87			su	SW846 1312
Volume, SPLP Leachate		2.012			l	SW846 1312
Weight, SPLP Leachate		0.1006			kg	SW846 1312
Dry Weight, SPLP Leachate		0.09024			kg	SW846 1312
Acenaphthene		0.00175	0.00010		mg/l	SW846 8270E BY SIM
Acenaphthylene		0.00184	0.00010		mg/l	SW846 8270E BY SIM
Anthracene		0.000878	0.00010		mg/l	SW846 8270E BY SIM
Benzo(a)anthracene		0.0000735	0.000050		mg/l	SW846 8270E BY SIM
Fluoranthene		0.000970	0.00010		mg/l	SW846 8270E BY SIM
Fluorene		0.00251	0.00010		mg/l	SW846 8270E BY SIM
Naphthalene		0.000431	0.00010		mg/l	SW846 8270E BY SIM
Phenanthrene		0.00410	0.000050		mg/l	SW846 8270E BY SIM
Pyrene		0.000719	0.00010		mg/l	SW846 8270E BY SIM
Copper		18.1	10		ug/l	SW846 6010D
Lead		53.8	15		ug/l	SW846 6010D
JD29693-16R	**MW-4-0204**					
pH, SPLP Leachate		8.17			su	SW846 1312
Volume, SPLP Leachate		2.005			l	SW846 1312
Weight, SPLP Leachate		0.1003			kg	SW846 1312

Summary of Hits

Job Number: JD29693R
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
Dry Weight, SPLP Leachate	0.07019			kg	SW846 1312
Copper	20.6	10		ug/l	SW846 6010D
Lead	98.4	15		ug/l	SW846 6010D
Mercury [a]	0.00062	0.00020		mg/l	SW846 7470A
Zinc	102	80		ug/l	SW846 6010D
JD29693-17R MW-1R-0002					
pH, SPLP Leachate	8.90			su	SW846 1312
Volume, SPLP Leachate	2.018			l	SW846 1312
Weight, SPLP Leachate	0.1009			kg	SW846 1312
Dry Weight, SPLP Leachate	0.09272			kg	SW846 1312
Acenaphthene	0.00134	0.00010		mg/l	SW846 8270E BY SIM
Acenaphthylene	0.000497	0.00010		mg/l	SW846 8270E BY SIM
Anthracene	0.000193	0.00010		mg/l	SW846 8270E BY SIM
Fluoranthene	0.000224	0.00010		mg/l	SW846 8270E BY SIM
Fluorene	0.00163	0.00010		mg/l	SW846 8270E BY SIM
Naphthalene	0.000604	0.00010		mg/l	SW846 8270E BY SIM
Phenanthrene	0.00180	0.000050		mg/l	SW846 8270E BY SIM
Pyrene	0.000176	0.00010		mg/l	SW846 8270E BY SIM
JD29693-19R B-2-0002					
pH, SPLP Leachate	9.34			su	SW846 1312
Volume, SPLP Leachate	2.015			l	SW846 1312
Weight, SPLP Leachate	0.1008			kg	SW846 1312
Dry Weight, SPLP Leachate	0.08544			kg	SW846 1312
Copper	10.3	10		ug/l	SW846 6010D
Lead	38.8	15		ug/l	SW846 6010D
JD29693-21R B-3-0002					
pH, SPLP Leachate	8.67			su	SW846 1312
Volume, SPLP Leachate	2.002			l	SW846 1312
Weight, SPLP Leachate	0.1001			kg	SW846 1312
Dry Weight, SPLP Leachate	0.09141			kg	SW846 1312
Phenanthrene	0.0000721	0.000050		mg/l	SW846 8270E BY SIM
JD29693-22R B-3-0305					
pH, SPLP Leachate	7.76			su	SW846 1312
Volume, SPLP Leachate	2.002			l	SW846 1312
Weight, SPLP Leachate	0.1001			kg	SW846 1312
Dry Weight, SPLP Leachate	0.08761			kg	SW846 1312
Phenanthrene	0.000247	0.000050		mg/l	SW846 8270E BY SIM

Summary of Hits

Job Number: JD29693R
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

(a) Analyzed beyond Holdtime.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	B-10-0002		
Lab Sample ID:	JD29693-1R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3510C	**Percent Solids:**	86.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y40460.D	1	09/23/21 00:53	CP	09/22/21 17:00	OP35551	G8Y1668
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	Units	Q
	CT-DRO (C9-C36)	ND		0.099	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	67%		50-150%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-10-0002		
Lab Sample ID:	JD29693-1R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	86.5
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	8.60		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.000		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1000		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.08652		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-10-0204		
Lab Sample ID:	JD29693-2R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	91.6
Project:	43 Hempstead Street, New London, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Arsenic	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Barium	< 200		200	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Beryllium	< 2.0		2.0	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Cadmium	< 4.0		4.0	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Chromium	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Copper	11.9		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Lead	17.3		15	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Mercury [a]	< 0.00020		0.00020	mg/l	1	09/08/21	09/08/21	LM	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Selenium	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Silver	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Thallium	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Vanadium	207		50	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Zinc	< 80		80	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA51085
(2) Instrument QC Batch: MA51087
(3) Prep QC Batch: MP28466
(4) Prep QC Batch: MP28493

(a) Analyzed beyond Holdtime.

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	B-10-0204		
Lab Sample ID:	JD29693-2R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	91.6
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	7.25		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.007		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1003		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.09190		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-7-0002		
Lab Sample ID:	JD29693-3R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	88.8
Project:	43 Hempstead Street, New London, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Arsenic	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Barium	< 200		200	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Beryllium	< 2.0		2.0	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Cadmium	< 4.0		4.0	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Chromium	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Copper	15.5		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Lead	109		15	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Mercury [a]	0.00020		0.00020	mg/l	1	09/08/21	09/08/21	LM	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Selenium	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Silver	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Thallium	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Vanadium	< 50		50	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Zinc	< 80		80	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA51085
(2) Instrument QC Batch: MA51087
(3) Prep QC Batch: MP28466
(4) Prep QC Batch: MP28493

(a) Analyzed beyond Holdtime.

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	B-7-0002		
Lab Sample ID:	JD29693-3R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	88.8
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	7.69		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.012		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1006		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.08933		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-8-0002		
Lab Sample ID:	JD29693-7R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3510C	**Percent Solids:**	80.6
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z40461.D	1	09/23/21 01:31	CP	09/22/21 17:00	OP35551	G8Z1748
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	Units	Q
	CT-DRO (C9-C36)	0.137		0.098	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	70%		50-150%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-8-0002		
Lab Sample ID:	JD29693-7R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	80.6
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	9.20		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.016		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1008		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.08123		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD29693-8R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	82.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M102256.D	1	09/09/21 14:46	KLS	09/08/21 08:15	OP35296	E4M4769
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	Units	Q
83-32-9	Acenaphthene	0.000442		0.00010	mg/l	
208-96-8	Acenaphthylene	0.000132		0.00010	mg/l	
120-12-7	Anthracene	ND		0.00010	mg/l	
56-55-3	Benzo(a)anthracene	ND		0.000050	mg/l	
50-32-8	Benzo(a)pyrene	ND		0.000050	mg/l	
205-99-2	Benzo(b)fluoranthene	ND		0.000050	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND		0.00010	mg/l	
207-08-9	Benzo(k)fluoranthene	ND		0.00010	mg/l	
218-01-9	Chrysene	ND		0.00010	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND		0.00010	mg/l	
206-44-0	Fluoranthene	ND		0.00010	mg/l	
86-73-7	Fluorene	0.000325		0.00010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND		0.00010	mg/l	
91-20-3	Naphthalene	0.000247		0.00010	mg/l	
85-01-8	Phenanthrene	0.000461		0.000050	mg/l	
129-00-0	Pyrene	ND		0.00010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		18-119%
321-60-8	2-Fluorobiphenyl	67%		18-104%
1718-51-0	Terphenyl-d14	63%		13-109%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD29693-8R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	82.0
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	9.03		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.013		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1006		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.08252		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-6-0305		
Lab Sample ID:	JD29693-11R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	85.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M102257.D	1	09/09/21 15:07	KLS	09/08/21 08:15	OP35296	E4M4769
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	Units	Q
83-32-9	Acenaphthene	0.00143		0.00010	mg/l	
208-96-8	Acenaphthylene	0.000916		0.00010	mg/l	
120-12-7	Anthracene	0.000764		0.00010	mg/l	
56-55-3	Benzo(a)anthracene	0.000241		0.000050	mg/l	
50-32-8	Benzo(a)pyrene	0.000119		0.000050	mg/l	
205-99-2	Benzo(b)fluoranthene	0.000189		0.000050	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND		0.00010	mg/l	
207-08-9	Benzo(k)fluoranthene	ND		0.00010	mg/l	
218-01-9	Chrysene	0.000215		0.00010	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND		0.00010	mg/l	
206-44-0	Fluoranthene	0.00192		0.00010	mg/l	
86-73-7	Fluorene	0.00152		0.00010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND		0.00010	mg/l	
91-20-3	Naphthalene	0.000337		0.00010	mg/l	
85-01-8	Phenanthrene	0.00284		0.000050	mg/l	
129-00-0	Pyrene	0.00163		0.00010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		18-119%
321-60-8	2-Fluorobiphenyl	62%		18-104%
1718-51-0	Terphenyl-d14	59%		13-109%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-0305		
Lab Sample ID:	JD29693-11R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3510C	**Percent Solids:**	85.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y40461.D	1	09/23/21 01:31	CP	09/22/21 17:00	OP35551	G8Y1668
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	Units	Q
	CT-DRO (C9-C36)	0.0980		0.096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	67%		50-150%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-0305		
Lab Sample ID:	JD29693-11R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	85.5
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	7.95		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.011		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1005		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.08596		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-4-0002		
Lab Sample ID:	JD29693-15R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	89.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M102258.D	1	09/09/21 15:28	KLS	09/08/21 08:15	OP35296	E4M4769
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	Units	Q
83-32-9	Acenaphthene	0.00175		0.00010	mg/l	
208-96-8	Acenaphthylene	0.00184		0.00010	mg/l	
120-12-7	Anthracene	0.000878		0.00010	mg/l	
56-55-3	Benzo(a)anthracene	0.0000735		0.000050	mg/l	
50-32-8	Benzo(a)pyrene	ND		0.000050	mg/l	
205-99-2	Benzo(b)fluoranthene	ND		0.000050	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND		0.00010	mg/l	
207-08-9	Benzo(k)fluoranthene	ND		0.00010	mg/l	
218-01-9	Chrysene	ND		0.00010	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND		0.00010	mg/l	
206-44-0	Fluoranthene	0.000970		0.00010	mg/l	
86-73-7	Fluorene	0.00251		0.00010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND		0.00010	mg/l	
91-20-3	Naphthalene	0.000431		0.00010	mg/l	
85-01-8	Phenanthrene	0.00410		0.000050	mg/l	
129-00-0	Pyrene	0.000719		0.00010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		18-119%
321-60-8	2-Fluorobiphenyl	63%		18-104%
1718-51-0	Terphenyl-d14	72%		13-109%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-4-0002		
Lab Sample ID:	JD29693-15R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	89.7
Project:	43 Hempstead Street, New London, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Arsenic	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Barium	< 200		200	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Beryllium	< 2.0		2.0	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Cadmium	< 4.0		4.0	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Chromium	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Copper	18.1		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Lead	53.8		15	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Mercury [a]	< 0.00020		0.00020	mg/l	1	09/08/21	09/08/21	LM	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Selenium	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Silver	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Thallium	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Vanadium	< 50		50	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Zinc	< 20		20	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA51085
(2) Instrument QC Batch: MA51087
(3) Prep QC Batch: MP28467
(4) Prep QC Batch: MP28494

(a) Analyzed beyond Holdtime.

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	MW-4-0002		
Lab Sample ID:	JD29693-15R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	89.7
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	8.87		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.012		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1006		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.09024		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-4-0204		
Lab Sample ID:	JD29693-16R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	70.0
Project:	43 Hempstead Street, New London, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Arsenic	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Barium	< 200		200	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Beryllium	< 2.0		2.0	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Cadmium	< 4.0		4.0	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Chromium	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Copper	20.6		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Lead	98.4		15	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Mercury [a]	0.00062		0.00020	mg/l	1	09/08/21	09/08/21	LM	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Selenium	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Silver	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Thallium	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Vanadium	< 50		50	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Zinc	102		80	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA51085
(2) Instrument QC Batch: MA51087
(3) Prep QC Batch: MP28466
(4) Prep QC Batch: MP28493

(a) Analyzed beyond Holdtime.

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	MW-4-0204		
Lab Sample ID:	JD29693-16R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	70.0
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	8.17		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.005		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1003		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.07019		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-1R-0002		
Lab Sample ID:	JD29693-17R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	91.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M102259.D	1	09/09/21 15:48	KLS	09/08/21 08:15	OP35296	E4M4769
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	Units	Q
83-32-9	Acenaphthene	0.00134		0.00010	mg/l	
208-96-8	Acenaphthylene	0.000497		0.00010	mg/l	
120-12-7	Anthracene	0.000193		0.00010	mg/l	
56-55-3	Benzo(a)anthracene	ND		0.000050	mg/l	
50-32-8	Benzo(a)pyrene	ND		0.000050	mg/l	
205-99-2	Benzo(b)fluoranthene	ND		0.000050	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND		0.00010	mg/l	
207-08-9	Benzo(k)fluoranthene	ND		0.00010	mg/l	
218-01-9	Chrysene	ND		0.00010	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND		0.00010	mg/l	
206-44-0	Fluoranthene	0.000224		0.00010	mg/l	
86-73-7	Fluorene	0.00163		0.00010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND		0.00010	mg/l	
91-20-3	Naphthalene	0.000604		0.00010	mg/l	
85-01-8	Phenanthrene	0.00180		0.000050	mg/l	
129-00-0	Pyrene	0.000176		0.00010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		18-119%
321-60-8	2-Fluorobiphenyl	55%		18-104%
1718-51-0	Terphenyl-d14	68%		13-109%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R-0002		
Lab Sample ID:	JD29693-17R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	91.9
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	8.90		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.018		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1009		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.09272		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-2-0002		
Lab Sample ID:	JD29693-19R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3510C	**Percent Solids:**	84.8
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y40378.D	1	09/11/21 01:02	TC	09/10/21 13:00	OP35297	G8Y1661
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	Units	Q
	CT-DRO (C9-C36)	ND		0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	72%		50-150%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-2-0002		
Lab Sample ID:	JD29693-19R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	84.8
Project:	43 Hempstead Street, New London, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Arsenic	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Barium	< 200		200	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Beryllium	< 2.0		2.0	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Cadmium	< 4.0		4.0	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Chromium	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Copper	10.3		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Lead	38.8		15	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Mercury [a]	< 0.00020		0.00020	mg/l	1	09/08/21	09/08/21	LM	SW846 7470A [2]	SW846 7470A [4]
Nickel	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Selenium	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Silver	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Thallium	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Vanadium	< 50		50	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Zinc	< 20		20	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA51085
(2) Instrument QC Batch: MA51087
(3) Prep QC Batch: MP28467
(4) Prep QC Batch: MP28494

(a) Analyzed beyond Holdtime.

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	B-2-0002		
Lab Sample ID:	JD29693-19R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	84.8
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	9.34		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.015		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1008		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.08544		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-3-0002		
Lab Sample ID:	JD29693-21R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	91.3
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M102260.D	1	09/09/21 16:09	KLS	09/08/21 08:15	OP35296	E4M4769
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	Units	Q
83-32-9	Acenaphthene	ND		0.00010	mg/l	
208-96-8	Acenaphthylene	ND		0.00010	mg/l	
120-12-7	Anthracene	ND		0.00010	mg/l	
56-55-3	Benzo(a)anthracene	ND		0.000050	mg/l	
50-32-8	Benzo(a)pyrene	ND		0.000050	mg/l	
205-99-2	Benzo(b)fluoranthene	ND		0.000050	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND		0.00010	mg/l	
207-08-9	Benzo(k)fluoranthene	ND		0.00010	mg/l	
218-01-9	Chrysene	ND		0.00010	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND		0.00010	mg/l	
206-44-0	Fluoranthene	ND		0.00010	mg/l	
86-73-7	Fluorene	ND		0.00010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND		0.00010	mg/l	
91-20-3	Naphthalene	ND		0.00010	mg/l	
85-01-8	Phenanthrene	0.0000721		0.000050	mg/l	
129-00-0	Pyrene	ND		0.00010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		18-119%
321-60-8	2-Fluorobiphenyl	62%		18-104%
1718-51-0	Terphenyl-d14	70%		13-109%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0002		
Lab Sample ID:	JD29693-21R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3510C	**Percent Solids:**	91.3
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y40379.D	1	09/11/21 01:39	TC	09/10/21 13:00	OP35297	G8Y1661
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	Units	Q
	CT-DRO (C9-C36)	ND		0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		50-150%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0002		
Lab Sample ID:	JD29693-21R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	91.3
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	8.67		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.002		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1001		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.09141		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-3-0305		
Lab Sample ID:	JD29693-22R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	87.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M102261.D	1	09/09/21 16:29	KLS	09/08/21 08:15	OP35296	E4M4769
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	Units	Q
83-32-9	Acenaphthene	ND		0.00010	mg/l	
208-96-8	Acenaphthylene	ND		0.00010	mg/l	
120-12-7	Anthracene	ND		0.00010	mg/l	
56-55-3	Benzo(a)anthracene	ND		0.000050	mg/l	
50-32-8	Benzo(a)pyrene	ND		0.000050	mg/l	
205-99-2	Benzo(b)fluoranthene	ND		0.000050	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND		0.00010	mg/l	
207-08-9	Benzo(k)fluoranthene	ND		0.00010	mg/l	
218-01-9	Chrysene	ND		0.00010	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND		0.00010	mg/l	
206-44-0	Fluoranthene	ND		0.00010	mg/l	
86-73-7	Fluorene	ND		0.00010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND		0.00010	mg/l	
91-20-3	Naphthalene	ND		0.00010	mg/l	
85-01-8	Phenanthrene	0.000247		0.000050	mg/l	
129-00-0	Pyrene	ND		0.00010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	58%		18-119%
321-60-8	2-Fluorobiphenyl	48%		18-104%
1718-51-0	Terphenyl-d14	68%		13-109%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0305		
Lab Sample ID:	JD29693-22R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3510C	**Percent Solids:**	87.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y40462.D	1	09/23/21 02:09	CP	09/22/21 17:00	OP35551	G8Y1668
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	Units	Q
	CT-DRO (C9-C36)	ND		0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		50-150%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0305		
Lab Sample ID:	JD29693-22R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	87.5
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	7.76		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.002		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1001		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.08761		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

SO
SLL

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-02-FORM-Standard COC

FED-EX Tracking #:
Bottle Order Control #: JD29693
SGS Quote #: TF-08321-148
SGS Job #: NEIMAL89598

Client / Reporting Information

Company Name: Nobis
Street Address: 585 Middlesex St
City / State / Zip: Lowell MA 01851
Project Contact / E-mail: Jeff Brunelle JBrunelle@nobisgroup.com
Phone #: 603-508-0084
Sampler(s) Name(s) / Phone #: A Epstein

Project Information

Project Name: 43 Hempstead St New London CT
Street: 43 Hempstead
City / State: New London CT
Project #: 93203.15
Client Purchase Order #: 93203.15/208
Project Manager: Jeff Brunelle

Billing Information (If different from Report to)

Company Name: Same
Street Address:
City / State / Zip:
Attention:

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	VOCs	ETPH	PAH SIM	Pesticides	PCBs Soxhlet	RCP metals + Hg	LAB USE ONLY
1	B-10-0002		8/9/21	915	AE	G	S	5					2	2	1		X	X	X	X	X	X	P51
2	B-10-0304			920													X	X	X	X	X	X	1414
3	B-7-0002			945													X	X	X	X	X	X	4012
4	B-7-0507			950													X	X	X	X	X	X	4013
5	B-9-0002			1005													X	X	X	X	X	X	D45
6	B-9-0305			1010													X	X	X	X	X	X	
7	B-8-0002			1020													X	X	X	X	X	X	
8	FD-01			1600													X	X	X	X	X	X	
9	B-8-0507			1025													X	X	X	X	X	X	
10	MW-6-0002			1210													X	X	X	X	X	X	
11	MW-6-0305			1215													X	X	X	X	X	X	
12	MW-5-0002			1330													X	X	X	X	X	X	

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [x] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special instructions

Hold remaining soil for potential SPLP ETPH, SPLP PAH, SPLP metals

SGS-ACCUTEST MARLBOR 8/10

http://www.sgs.com/en/terms-and-condition

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by	Date / Time	Received By	Relinquished By	Date / Time	Received By
1 MCS	8/10/21 14:55	1 [illegible]	2 [illegible]	8/10/21 15:00	2 Fed Ex
3 Fedex	8-11-21 8:03	3 [illegible]	4		4
5		5			

Custody Seal # 17403, 154074, 15 905 — Intact / Not Intact — Preserved where applicable — Absent — Therm. ID: — On Ice — Cooler Temp. °C 3.4°C

JD29693R: Chain of Custody
Page 1 of 8

CHAIN OF CUSTODY

SGS

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-02-FORM-Standard COC

FED-EX Tracking #:
Bottle Order Control #: JD29693
SGS Quote #:
SGS Job #:

Client / Reporting Information

Company Name: NoBis
Street Address: 565 Middlesex St
City: Lowell State: MA Zip: 01851
Project Contact: Jeff Brunelle E-mail: JBrunelle@nobis-group.com
Phone #: 603-505-0084
Sampler(s) Name(s): AEpstein Phone #:

Project Information

Project Name: 43 Hempstead St New London CT
Street: 43 Hempstead
City: New London State: CT
Project #: 93203.15
Client Purchase Order #: 93203.15 / 206
Project Manager: Jeff Brunelle
Attention:

Billing Information (If different from Report to)

Company Name: Same
Street Address:
City: State: Zip:

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	VOCs	ETPH	PAH SIM	Pesticides	PCB Soxhlet	RCP Metals + Hg						LAB USE ONLY
13	MW-05-0810		8/9/21	1340	AE	G	S	5					2	2	1		X	X	X	X	X	X						
14	TB-01			1605				3						2	1		X											
15	MW-4-0002		8/10/21	915				5					2	2	1		X	X	X	X	X	X						
16	MW-4-0204			925													X	X	X	X	X	X						
17	MW-1R-0002			1100													X	X	X	X	X	X						
18	MW-1R-0406			1105													X	X	X	X	X	X						
19	B-2-0002			1305				15					6	6	3		X	X	X	X	X	X						
20	B-2-0507			1255				5					2	2	1		X	X	X	X	X	X						
21	B-3-0002			1325				5									X	X	X	X	X	X						
22	B-3-0305			1330				5									X	X	X	X	X	X						

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink. * Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Hold remaining soil for potential SPLP ETPH, SPLP PAH, SPLP Metals
B-2-0002 MS/MSD

SGS-ACCUTEST MARLBOR 8/10

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	8/10/21 4:55	1	2	8/10/21 1840	2
Relinquished by: 3	Date / Time: 8/11/21 9:05	Received By: 3	Relinquished By: 4	Date / Time:	Received By: 4
Relinquished by: 5	Date / Time:	Received By: 5	Custody Seal #	[ ] Intact [ ] Not intact	Preserved where applicable [ ] Absent; On Ice; Cooler Temp. °C; Therm. ID:

JD29693R: Chain of Custody
Page 2 of 8

SGS Sample Receipt Summary

Job Number: JD29693 **Client:** NOBIS ENGINEERING, INC. **Project:** SO: 43 HEMPSTEAD STREET, NEW LONDON,

Date / Time Received: 8/10/2021 6:00:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 2: (3.7); Cooler 3: (2.8);

Cooler Temps (Corrected) °C: Cooler 2: (3.7); Cooler 3: (2.8);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD29693R: Chain of Custody
Page 3 of 8

Job Change Order: JD29693

Requested Date:	9/2/2021	**Received Date:**	8/10/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	9/2/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	7

==========

Sample #: JD29693-1 and 7
Dept:
TAT: 7
Change:
Relog for BCTTPHSPLP, SPLPE, SPLPRATIO. (Okay to proceed out c hold)

==========

==========

Sample #: JD29693-11, 21 and 22
Dept:
TAT: 7
Change:
Relog for BCTTPHSPLP, B8270SPLPSIMPAH, SPLPE, SPLPRATIO (to proceed out of hold)

==========

==========

Sample #: JD29693-19
Dept:
TAT: 7
Change:
Relog for BCTTPHSPLP, SPLPM, SPLPE, SPLPRATIO (Okay to proce out of hold)

B-2-0002

==========

==========

Sample #: JD29693-8 and 17
Dept:
TAT: 7
Change:
Relog for B8270SPLPSIMPAH, SPLPE, SPLPRATIO (Okay to proceec of hold)

==========

Above Changes Per: Jeffrey Brunelle **Date/Time:** 9/2/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Job Change Order: JD29693

Requested Date:	9/2/2021	**Received Date:**	8/10/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	9/2/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	7

==========

Sample #: JD29693-2, 3, and 16

Dept:

TAT: 7

Change:
Relog for SPLPM, SPLPE, SPLPRATIO (Okay to proceed out of hold)

==========

==========

Sample #: JD29693-15

Dept:

TAT: 7

MW-4-0002

Change:
Relog for B8270SPLPSIMPAH, SPLPM, SPLPE, SPLPRATIO (Okay to proceed out of hold)

==========

Above Changes Per: Jeffrey Brunelle **Date/Time:** 9/2/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Job Change Order: JD29693R

Requested Date:	10/11/2021	**Received Date:**	8/10/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	10/11/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	3

==========

Sample #: JD29693R-8, 11, 15, 17, 21, 22 **Change:**
Please relog/retrieve for BR8270SPLPSIM2MNAP

Dept:

TAT: 3

==========

==========

Sample #: JD29693R-2, 3, 15, 16, 19 **Change:**
Please relog/retrieve for ESB, EBE, ECU, ENI, ETL, EVA, EZN,

Dept:

TAT: 3

==========

==========

Sample #: JD29693R- **Change:**

Dept:

TAT:

==========

Above Changes Per: Garry Glenon **Date/Time:** 10/11/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

5.1 5

JD29693R: Chain of Custody
Page 6 of 8

Job Change Order: JD29693

Requested Date:	10/11/2021	**Received Date:**	8/10/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	10/11/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	3

==========

Sample #: JD29693-1 thru 13, and 15 thru 22

Change:

Please relog/retrieve for BR8270SIM2MNAP

Dept:

TAT: 3

==========

Above Changes Per: Gary Glennon **Date/Time:** 10/11/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

5.1 5

JD29693R: Chain of Custody

Page 7 of 8

Job Change Order: JD29693

Requested Date:	10/13/2021	**Received Date:**	8/10/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	10/13/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	7

==========

Sample #:	JD29693-1 thru 13 and 15 thru 22	**Change:**	
Dept:			Relog/retrieve for PR8081HEXCBNZ
TAT:	7		

==========

Above Changes Per: Garry Glennon **Date/Time:** 10/13/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

JD29693R: Chain of Custody

Page 8 of 8

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **SGS North America Inc.** **Client:** **Nobis Engineering, Inc.**

Project Location: **43 Hempstead Street, New London, CT** **Project Number:** **93203.15 / 1000**

Sampling Date(s): **8/9/2021**

Laboratory Sample ID(s): JD29693-2R, JD29693-3R, JD29693-7R, JD29693-8R, JD29693-11R, JD29693-15R, JD29693-16R, JD29693-17R, JD29693-19R, JD29693-21R, JD29693-22R, JD29693-1R

Methods: CT-ETPH, EPA 160.3 M, SW846 1312, SW846 6010D, SW846 7470A, SW846 8270E BY SIM

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

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

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

Authorized Signature: Position: General Manager

Printed Name: Mike Earp Date: 9/24/2021

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD29693R

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29693-1R	Collected: 09-AUG-21 09:15 By: AE		Received: 10-AUG-21 By: MK			
B-10-0002						
JD29693-1R	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-1R	CT-ETPH	23-SEP-21 00:53	CP	22-SEP-21	JL	BCTTPHSPLP
JD29693-2R	Collected: 09-AUG-21 09:20 By: AE		Received: 10-AUG-21 By: MK			
B-10-0204						
JD29693-2R	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-2R	SW846 6010D	08-SEP-21 00:55	ND	07-SEP-21	SF	EAG,EAS,EBA,ECD,ECR,EPB,ESE
JD29693-2R	SW846 7470A	08-SEP-21 14:23	LM	08-SEP-21	LM	EHG
JD29693-3R	Collected: 09-AUG-21 09:45 By: AE		Received: 10-AUG-21 By: MK			
B-7-0002						
JD29693-3R	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-3R	SW846 6010D	08-SEP-21 01:05	ND	07-SEP-21	SF	EAG,EAS,EBA,ECD,ECR,EPB,ESE
JD29693-3R	SW846 7470A	08-SEP-21 14:24	LM	08-SEP-21	LM	EHG
JD29693-7R	Collected: 09-AUG-21 10:20 By: AE		Received: 10-AUG-21 By: MK			
B-8-0002						
JD29693-7R	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-7R	CT-ETPH	23-SEP-21 01:31	CP	22-SEP-21	JL	BCTTPHSPLP
JD29693-8R	Collected: 09-AUG-21 16:00 By: AE		Received: 10-AUG-21 By: MK			
FD-01						
JD29693-8R	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-8R	SW846 8270E BY SIM	09-SEP-21 14:46	KLS	08-SEP-21	NW	B8270SPLPSIMPAH
JD29693-11R	Collected: 09-AUG-21 12:15 By: AE		Received: 10-AUG-21 By: MK			
MW-6-0305						
JD29693-11R	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-11R	SW846 8270E BY SIM	09-SEP-21 15:07	KLS	08-SEP-21	NW	B8270SPLPSIMPAH
JD29693-11R	CT-ETPH	23-SEP-21 01:31	CP	22-SEP-21	JL	BCTTPHSPLP

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD29693R

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29693-15R	Collected: 10-AUG-21 09:15 By: AE		Received: 10-AUG-21 By: MK			
MW-4-0002						
JD29693-15E	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-15E	SW846 6010D	08-SEP-21 00:10	ND	07-SEP-21	SF	EAG,EAS,EBA,ECD,ECR,EPB,ESE
JD29693-15E	SW846 7470A	08-SEP-21 14:39	LM	08-SEP-21	LM	EHG
JD29693-15E	SW846 8270E BY SIM	09-SEP-21 15:28	KLS	08-SEP-21	NW	B8270SPLPSIMPAH
JD29693-16R	Collected: 10-AUG-21 09:25 By: AE		Received: 10-AUG-21 By: MK			
MW-4-0204						
JD29693-16E	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-16E	SW846 6010D	08-SEP-21 01:10	ND	07-SEP-21	SF	EAG,EAS,EBA,ECD,ECR,EPB,ESE
JD29693-16E	SW846 7470A	08-SEP-21 14:26	LM	08-SEP-21	LM	EHG
JD29693-17R	Collected: 10-AUG-21 11:00 By: AE		Received: 10-AUG-21 By: MK			
MW-1R-0002						
JD29693-17E	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-17E	SW846 8270E BY SIM	09-SEP-21 15:48	KLS	08-SEP-21	NW	B8270SPLPSIMPAH
JD29693-19R	Collected: 10-AUG-21 13:05 By: AE		Received: 10-AUG-21 By: MK			
B-2-0002						
JD29693-19E	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-19E	SW846 6010D	08-SEP-21 00:20	ND	07-SEP-21	SF	EAG,EAS,EBA,ECD,ECR,EPB,ESE
JD29693-19E	SW846 7470A	08-SEP-21 14:38	LM	08-SEP-21	LM	EHG
JD29693-19R	CT-ETPH	11-SEP-21 01:02	TC	10-SEP-21	NW	BCTTPHSPLP
JD29693-21R	Collected: 10-AUG-21 13:25 By: AE		Received: 10-AUG-21 By: MK			
B-3-0002						
JD29693-21E	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-21E	SW846 8270E BY SIM	09-SEP-21 16:09	KLS	08-SEP-21	NW	B8270SPLPSIMPAH
JD29693-21R	CT-ETPH	11-SEP-21 01:39	TC	10-SEP-21	NW	BCTTPHSPLP
JD29693-22R	Collected: 10-AUG-21 13:30 By: AE		Received: 10-AUG-21 By: MK			
B-3-0305						

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD29693R

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29693-22R	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-22R	SW846 8270E BY SIM	09-SEP-21 16:29	KLS	08-SEP-21	NW	B8270SPLPSIMPAH
JD29693-22R	CT-ETPH	23-SEP-21 02:09	CP	22-SEP-21	JL	BCTTPHSPLP

QC Evaluation: CT RCP Limits

Job Number: JD29693R
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No CT RCP Limits Found.

* Sample used for QC is not from job JD29693R

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35296-MB1	4M102227A.D	1	09/09/21	CS	09/08/21	OP35296	E4M4768

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-8R, JD29693-11R, JD29693-15R, JD29693-17R, JD29693-21R, JD29693-22R

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.10	ug/l	
208-96-8	Acenaphthylene	ND	0.10	ug/l	
120-12-7	Anthracene	ND	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.050	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	ug/l	
218-01-9	Chrysene	ND	0.10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	ug/l	
206-44-0	Fluoranthene	ND	0.10	ug/l	
86-73-7	Fluorene	ND	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	ug/l	
91-20-3	Naphthalene	ND	0.10	ug/l	
85-01-8	Phenanthrene	ND	0.050	ug/l	
129-00-0	Pyrene	ND	0.10	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	78%	18-119%
321-60-8	2-Fluorobiphenyl	66%	18-104%
1718-51-0	Terphenyl-d14	63%	13-109%

Leachate Blank Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35296-LB19	4M102228.D	1	09/09/21	CS	09/08/21	OP35296	E4M4768

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-8R, JD29693-11R, JD29693-15R, JD29693-17R, JD29693-21R, JD29693-22R

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.10	ug/l	
208-96-8	Acenaphthylene	ND	0.10	ug/l	
120-12-7	Anthracene	ND	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.050	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	ug/l	
218-01-9	Chrysene	ND	0.10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	ug/l	
206-44-0	Fluoranthene	ND	0.10	ug/l	
86-73-7	Fluorene	ND	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	ug/l	
91-20-3	Naphthalene	ND	0.10	ug/l	
85-01-8	Phenanthrene	ND	0.050	ug/l	
129-00-0	Pyrene	ND	0.10	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	64%	18-119%
321-60-8	2-Fluorobiphenyl	54%	18-104%
1718-51-0	Terphenyl-d14	63%	13-109%

Blank Spike Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35296-BS12	4M102229.D	1	09/09/21	CS	09/08/21	OP35296	E4M4768

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-8R, JD29693-11R, JD29693-15R, JD29693-17R, JD29693-21R, JD29693-22R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	1	0.719	72	42-105
208-96-8	Acenaphthylene	1	0.681	68	36-99
120-12-7	Anthracene	1	0.789	79	44-111
56-55-3	Benzo(a)anthracene	1	0.777	78	33-130
50-32-8	Benzo(a)pyrene	1	0.792	79	35-117
205-99-2	Benzo(b)fluoranthene	1	0.745	75	26-145
191-24-2	Benzo(g,h,i)perylene	1	0.563	56	29-130
207-08-9	Benzo(k)fluoranthene	1	0.827	83	33-142
218-01-9	Chrysene	1	0.767	77	41-127
53-70-3	Dibenzo(a,h)anthracene	1	0.521	52	27-135
206-44-0	Fluoranthene	1	0.752	75	40-112
86-73-7	Fluorene	1	0.745	75	45-104
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.546	55	32-131
91-20-3	Naphthalene	1	0.763	76	21-120
85-01-8	Phenanthrene	1	0.799	80	38-114
129-00-0	Pyrene	1	0.775	78	38-124

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	83%	18-119%
321-60-8	2-Fluorobiphenyl	67%	18-104%
1718-51-0	Terphenyl-d14	63%	13-109%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35296-MS	4M102262.D	1	09/09/21	KLS	09/08/21	OP35296	E4M4769
OP35296-MSD	4M102263.D	1	09/09/21	KLS	09/08/21	OP35296	E4M4769
JD29693-15R	4M102258.D	1	09/09/21	KLS	09/08/21	OP35296	E4M4769

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-8R, JD29693-11R, JD29693-15R, JD29693-17R, JD29693-21R, JD29693-22R

CAS No.	Compound	JD29693-15R ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	1.75		1	2.36	61	1	1.06	-69* a	76* b	33-117/32
208-96-8	Acenaphthylene	1.84		1	2.37	53	1	1.03	-81* a	79* b	32-107/31
120-12-7	Anthracene	0.878		1	1.64	76	1	0.752	-13* a	74* b	44-126/28
56-55-3	Benzo(a)anthracene	0.0735		1	0.652	58	1	0.283	21* a	79* b	45-127/30
50-32-8	Benzo(a)pyrene	ND		1	0.392	39* a	1	0.165	17* a	82* b	40-131/31
205-99-2	Benzo(b)fluoranthene	0.0464		1	0.414	37	1	0.160	11* a	89* b	36-134/32
191-24-2	Benzo(g,h,i)perylene	ND		1	0.241	24* a	1	0.0859	9* a	95* b	37-134/32
207-08-9	Benzo(k)fluoranthene	ND		1	0.479	48	1	0.193	19* a	85* b	37-135/34
218-01-9	Chrysene	0.0711		1	0.655	58	1	0.299	23* a	75* b	46-125/28
53-70-3	Dibenzo(a,h)anthracene	ND		1	0.259	26* a	1	0.0898	9* a	97* b	36-139/31
206-44-0	Fluoranthene	0.970		1	1.63	66	1	0.728	-24* a	77* b	41-130/29
86-73-7	Fluorene	2.51		1	2.99	48	1	1.36	-115* c	75* b	38-124/31
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1	0.233	23* a	1	0.0890	9* a	89* b	37-137/33
91-20-3	Naphthalene	0.431		1	1.18	75	1	0.524	9* a	77* b	16-114/35
85-01-8	Phenanthrene	4.10		1	4.68	58	1	2.14	-196* c	74* b	44-125/29
129-00-0	Pyrene	0.719		1	1.40	68	1	0.616	-10* a	78* b	39-134/29

CAS No.	Surrogate Recoveries	MS	MSD	JD29693-15R	Limits
4165-60-0	Nitrobenzene-d5	72%	37%	76%	18-119%
321-60-8	2-Fluorobiphenyl	58%	31%	63%	18-104%
1718-51-0	Terphenyl-d14	68%	33%	72%	13-109%

(a) Outside control limits due to matrix interference.
(b) Outside of in house control limits.
(c) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Leachate Spike Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35296-LS19	4M102262.D	1	09/09/21	KLS	09/08/21	OP35296	E4M4769
JD29693-15R	4M102258.D	1	09/09/21	KLS	09/08/21	OP35296	E4M4769

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-8R, JD29693-11R, JD29693-15R, JD29693-17R, JD29693-21R, JD29693-22R

CAS No.	Compound	JD29693-15R ug/l	Q	Spike ug/l	LS ug/l	LS %	Limits
83-32-9	Acenaphthene	1.75		1	2.36	61	33-117
208-96-8	Acenaphthylene	1.84		1	2.37	53	32-107
120-12-7	Anthracene	0.878		1	1.64	76	44-126
56-55-3	Benzo(a)anthracene	0.0735		1	0.652	58	45-127
50-32-8	Benzo(a)pyrene	ND		1	0.392	39* [a]	40-131
205-99-2	Benzo(b)fluoranthene	0.0464		1	0.414	37	36-134
191-24-2	Benzo(g,h,i)perylene	ND		1	0.241	24* [a]	37-134
207-08-9	Benzo(k)fluoranthene	ND		1	0.479	48	37-135
218-01-9	Chrysene	0.0711		1	0.655	58	46-125
53-70-3	Dibenzo(a,h)anthracene	ND		1	0.259	26* [a]	36-139
206-44-0	Fluoranthene	0.970		1	1.63	66	41-130
86-73-7	Fluorene	2.51		1	2.99	48	38-124
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1	0.233	23* [a]	37-137
91-20-3	Naphthalene	0.431		1	1.18	75	16-114
85-01-8	Phenanthrene	4.10		1	4.68	58	44-125
129-00-0	Pyrene	0.719		1	1.40	68	39-134

CAS No.	Surrogate Recoveries	LS	JD29693-15R	Limits
4165-60-0	Nitrobenzene-d5	72%	76%	18-119%
321-60-8	2-Fluorobiphenyl	58%	63%	18-104%
1718-51-0	Terphenyl-d14	68%	72%	13-109%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	E4M4768-CC4755	**Injection Date:**	09/09/21
Lab File ID:	4M102223.D	**Injection Time:**	02:16
Instrument ID:	GCMS4M	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	42742	6.59	53954	8.04	100551	10.14	67367	12.78
Upper Limit [a]	85484	7.09	107908	8.54	201102	10.64	134734	13.28
Lower Limit [b]	21371	6.09	26977	7.54	50276	9.64	33684	12.28

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP35281A-MB1	49049	6.59	58674	8.04	109790	10.14	70818	12.78
OP35281A-BS12	47347	6.59	59334	8.04	109345	10.14	72826	12.78
OP35281A-BSD12	49112	6.59	62330	8.04	116090	10.14	76520	12.78
OP35296-MB1	48222	6.59	60597	8.04	113920	10.14	76623	12.78
OP35296-LB19	49089	6.59	61501	8.04	115462	10.14	73998	12.78
OP35296-BS12	48364	6.59	60821	8.04	111348	10.14	73799	12.78
ZZZZZZ	50109	6.59	61481	8.04	114249	10.14	74001	12.78
ZZZZZZ	47502	6.59	59249	8.04	110210	10.14	71226	12.78
ZZZZZZ	45271	6.59	58358	8.04	110238	10.14	71393	12.78
ZZZZZZ	45617	6.59	58331	8.04	113161	10.14	76985	12.78
ZZZZZZ	47043	6.59	58739	8.04	112354	10.14	72565	12.78
ZZZZZZ	48143	6.59	59075	8.04	111773	10.14	73040	12.78
ZZZZZZ	50180	6.59	61260	8.04	107986	10.14	68156	12.78
ZZZZZZ	46823	6.59	57131	8.05	104169	10.15	68867	12.80
ZZZZZZ	48032	6.59	57919	8.04	103392	10.14	66497	12.79
ZZZZZZ	48718	6.59	59223	8.04	110045	10.15	69466	12.79
ZZZZZZ	44319	6.59	53113	8.04	96376	10.15	64778	12.79
ZZZZZZ	45458	6.59	56989	8.04	104898	10.14	68658	12.80
ZZZZZZ	42714	6.59	53528	8.04	99583	10.14	66133	12.79

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	E4M4769-CC4755	**Injection Date:**	09/09/21
Lab File ID:	4M102255.D	**Injection Time:**	14:19
Instrument ID:	GCMS4M	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	51248	6.59	64465	8.04	116332	10.14	71715	12.78
Upper Limit [a]	102496	7.09	128930	8.54	232664	10.64	143430	13.28
Lower Limit [b]	25624	6.09	32233	7.54	58166	9.64	35858	12.28

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
JD29693-8R	53768	6.59	67394	8.04	120443	10.14	72909	12.78
ZZZZZZ	53768	6.59	67394	8.04	120443	10.14	72909	12.78
JD29693-11R	49233	6.59	61571	8.04	113005	10.14	76369	12.78
ZZZZZZ	49233	6.59	61571	8.04	113005	10.14	76369	12.78
JD29693-15R	50712	6.59	60362	8.04	104846	10.14	70748	12.78
ZZZZZZ	50712	6.59	60362	8.04	104846	10.14	70748	12.78
JD29693-17R	50299	6.59	61544	8.04	110680	10.14	74770	12.78
ZZZZZZ	50299	6.59	61544	8.04	110680	10.14	74770	12.78
JD29693-21R	52960	6.59	64444	8.04	114690	10.14	74480	12.78
ZZZZZZ	52960	6.59	64444	8.04	114690	10.14	74480	12.78
JD29693-22R	55027	6.59	63158	8.04	113292	10.14	70917	12.78
ZZZZZZ	55027	6.59	63158	8.04	113292	10.14	70917	12.78
OP35296-MS	50422	6.59	63129	8.04	108561	10.14	69111	12.78
OP35296-LS19	50422	6.59	63129	8.04	108561	10.14	69111	12.78
OP35296-MSD	47831	6.59	61551	8.04	113306	10.14	76971	12.78
ZZZZZZ	48252	6.59	57962	8.04	103886	10.14	70456	12.78
ZZZZZZ	45666	6.59	57366	8.04	107195	10.14	72411	12.78
ZZZZZZ	50346	6.59	61387	8.04	108485	10.14	70783	12.78

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: SW846 8270E BY SIM **Matrix:** LEACHATE

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JD29693-8R	4M102256.D	80	67	63
JD29693-11R	4M102257.D	73	62	59
JD29693-15R	4M102258.D	76	63	72
JD29693-17R	4M102259.D	65	55	68
JD29693-21R	4M102260.D	78	62	70
JD29693-22R	4M102261.D	58	48	68
OP35296-BS12	4M102229.D	83	67	63
OP35296-LB19	4M102228.D	64	54	63
OP35296-LS19	4M102262.D	72	58	68
OP35296-MB1	4M102227A.D	78	66	63
OP35296-MS	4M102262.D	72	58	68
OP35296-MSD	4M102263.D	37	31	33

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	18-119%
S2 = 2-Fluorobiphenyl	18-104%
S3 = Terphenyl-d14	13-109%

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35297-MB1	8Y40369.D	1	09/10/21	TC	09/10/21	OP35297	G8Y1661

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-19R, JD29693-21R

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	70%	50-150%

Method Blank Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35551-MB1	8Z40458.D	1	09/22/21	CP	09/22/21	OP35551	G8Z1748

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-1R, JD29693-7R, JD29693-11R, JD29693-22R

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	68%	50-150%

Method Blank Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35551-MB1	8Y40459.D	1	09/23/21	CP	09/22/21	OP35551	G8Y1668

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-1R, JD29693-7R, JD29693-11R, JD29693-22R

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	68%	50-150%

Leachate Blank Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35297-LB18	8Y40372.D	1	09/10/21	TC	09/10/21	OP35297	G8Y1661

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-19R, JD29693-21R

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.202	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	22%* [a]	50-150%

(a) Outside of in house control limits.

Leachate Blank Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35551-LB13	8Y40458.D	1	09/22/21	CP	09/22/21	OP35551	G8Y1668

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-1R, JD29693-7R, JD29693-11R, JD29693-22R

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	60%	50-150%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35297-BS1	8Y40370.D	1	09/10/21	TC	09/10/21	OP35297	G8Y1661
OP35297-BSD	8Y40371.D	1	09/10/21	TC	09/10/21	OP35297	G8Y1661

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-19R, JD29693-21R

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	CT-DRO (C9-C36)	0.8	0.683	85	0.667	83	2	60-120/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	74%	71%	50-150%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35551-BS1	8Z40459.D	1	09/23/21	CP	09/22/21	OP35551	G8Z1748
OP35551-BSD	8Z40460.D	1	09/23/21	CP	09/22/21	OP35551	G8Z1748

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-1R, JD29693-7R, JD29693-11R, JD29693-22R

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	CT-DRO (C9-C36)	0.8	0.603	75	0.607	76	1	60-120/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	73%	72%	50-150%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35551-MS	8Z40462.D	1	09/23/21	CP	09/22/21	OP35551	G8Z1748
OP35551-MSD	8Z40463.D	1	09/23/21	CP	09/22/21	OP35551	G8Z1748
JD29693-7R	8Z40461.D	1	09/23/21	CP	09/22/21	OP35551	G8Z1748

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-1R, JD29693-7R, JD29693-11R, JD29693-22R

CAS No.	Compound	JD29693-7R mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	CT-DRO (C9-C36)	0.137		0.777	0.646	66	0.777	0.693	72	7	60-120/30

CAS No.	Surrogate Recoveries	MS	MSD	JD29693-7R	Limits
84-15-1	o-Terphenyl	68%	72%	70%	50-150%

* = Outside of Control Limits.

Leachate Spike Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35551-LS13	8Z40462.D	1	09/23/21	CP	09/22/21	OP35551	G8Z1748
JD29693-7R	8Z40461.D	1	09/23/21	CP	09/22/21	OP35551	G8Z1748

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-1R, JD29693-7R, JD29693-11R, JD29693-22R

CAS No.	Compound	JD29693-7R mg/l	Q	Spike mg/l	LS mg/l	LS %	Limits
	CT-DRO (C9-C36)	0.137		0.777	0.646	66	60-120

CAS No.	Surrogate Recoveries	LS	JD29693-7R	Limits
84-15-1	o-Terphenyl	68%	70%	50-150%

* = Outside of Control Limits.

Surrogate Recovery Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: CT-ETPH **Matrix:** LEACHATE

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
JD29693-1R	8Y40460.D	67
JD29693-7R	8Z40461.D	70
JD29693-11R	8Y40461.D	67
JD29693-19R	8Y40378.D	72
JD29693-21R	8Y40379.D	68
JD29693-22R	8Y40462.D	69
OP35297-BS1	8Y40370.D	74
OP35297-BSD	8Y40371.D	71
OP35297-LB18	8Y40372.D	22* [b]
OP35297-MB1	8Y40369.D	70
OP35551-BS1	8Z40459.D	73
OP35551-BSD	8Z40460.D	72
OP35551-LB13	8Y40458.D	60
OP35551-LS13	8Z40462.D	68
OP35551-MB1	8Z40458.D	68
OP35551-MB1	8Y40459.D	68
OP35551-MS	8Z40462.D	68
OP35551-MSD	8Z40463.D	72

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	50-150%

(a) Recovery from GC signal #1
(b) Outside of in house control limits.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28466
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	16	46		
Antimony	100	2.5	4.7	0.0	<100
Arsenic	100	2	2.8	0.0	<100
Barium	200	.4	13	1.7	<200
Beryllium	2.0	.1	.5	0.0	<2.0
Bismuth	20	3.6	4		
Boron	100	1.9	63		
Cadmium	4.0	.4	1	0.10	<4.0
Calcium	5000	5.6	99		
Chromium	10	.5	2	0.60	<10
Cobalt	50	.5	2.6		
Copper	10	1	5.9	3.5	<10
Iron	100	11	32		
Lead	100	1.2	1.8	-0.50	<100
Lithium	50	2.3	7.3		
Magnesium	5000	65	140		
Manganese	15	.2	1.4		
Molybdenum	20	.4	3.6		
Nickel	10	.3	1.7	1.3	<10
Phosphorus	50	4.1	18		
Potassium	10000	55	200		
Selenium	100	3.5	4.9	-0.40	<100
Silicon	200	1.6	100		
Silver	10	1.1	1.9	0.10	<10
Sodium	10000	11	570		
Strontium	10	.1	1		
Sulfur	50	4.4	45		
Thallium	100	2.5	1.8	-0.40	<100
Tin	10	1	3.7		
Titanium	10	.4	2.5		
Tungsten	50	2.8	40		
Vanadium	50	.6	1.8	0.30	<50
Zinc	80	.1	6.9	30.0	<80

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28466
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	RL	IDL	MDL	MB raw	final
Zirconium	10	.4	4.1		

Associated samples MP28466: JD29693-2R, JD29693-3R, JD29693-16R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28466
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-2R Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum					
Antimony	0.0	1850	2000	92.5	75-125
Arsenic	37.9	1850	2000	90.6	75-125
Barium	36.7	1860	2000	91.2	75-125
Beryllium	0.10	1850	2000	92.5	75-125
Bismuth					
Boron					
Cadmium	0.50	1880	2000	94.0	75-125
Calcium					
Chromium	5.6	1830	2000	91.2	75-125
Cobalt					
Copper	11.9	1820	2000	90.4	75-125
Iron					
Lead	17.3	1840	2000	91.1	75-125
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel	2.6	1830	2000	91.4	75-125
Phosphorus					
Potassium					
Selenium	5.9	1810	2000	90.2	75-125
Silicon					
Silver	1.1	235	250	93.6	75-125
Sodium					
Strontium					
Sulfur					
Thallium	2.9	1820	2000	90.9	75-125
Tin					
Titanium					
Tungsten					
Vanadium	207	2020	2000	90.7	75-125
Zinc	15.6	1840	2000	91.2	75-125

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28466
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-2R Original MS	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP28466: JD29693-2R, JD29693-3R, JD29693-16R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28466
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-2R Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	0.0	1870	2000	93.5	1.1	20
Arsenic	37.9	1860	2000	91.1	0.5	20
Barium	36.7	1880	2000	92.2	1.1	20
Beryllium	0.10	1860	2000	93.0	0.5	20
Bismuth						
Boron						
Cadmium	0.50	1890	2000	94.5	0.5	20
Calcium						
Chromium	5.6	1840	2000	91.7	0.5	20
Cobalt						
Copper	11.9	1830	2000	90.9	0.5	20
Iron						
Lead	17.3	1850	2000	91.6	0.5	20
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel	2.6	1840	2000	91.9	0.5	20
Phosphorus						
Potassium						
Selenium	5.9	1820	2000	90.7	0.6	20
Silicon						
Silver	1.1	236	250	94.0	0.4	20
Sodium						
Strontium						
Sulfur						
Thallium	2.9	1840	2000	91.9	1.1	20
Tin						
Titanium						
Tungsten						
Vanadium	207	2030	2000	91.2	0.5	20
Zinc	15.6	1850	2000	91.7	0.5	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28466
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-2R Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zirconium					

Associated samples MP28466: JD29693-2R, JD29693-3R, JD29693-16R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28466
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum				
Antimony	1880	2000	94.0	80-120
Arsenic	1840	2000	92.0	80-120
Barium	1840	2000	92.0	80-120
Beryllium	1870	2000	93.5	80-120
Bismuth				
Boron				
Cadmium	1890	2000	94.5	80-120
Calcium				
Chromium	1850	2000	92.5	80-120
Cobalt				
Copper	1820	2000	91.0	80-120
Iron				
Lead	1850	2000	92.5	80-120
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel	1840	2000	92.0	80-120
Phosphorus				
Potassium				
Selenium	1830	2000	91.5	80-120
Silicon				
Silver	236	250	94.4	80-120
Sodium				
Strontium				
Sulfur				
Thallium	1870	2000	93.5	80-120
Tin				
Titanium				
Tungsten				
Vanadium	1840	2000	92.0	80-120
Zinc	1850	2000	92.5	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28466
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP28466: JD29693-2R, JD29693-3R, JD29693-16R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28466
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-2R Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	0.00	0.00	NC	0-10
Arsenic	37.9	41.7	10.0	0-10
Barium	36.7	39.9	8.7	0-10
Beryllium	0.100	0.00	100.0(a)	0-10
Bismuth				
Boron				
Cadmium	0.500	0.00	100.0(a)	0-10
Calcium				
Chromium	5.60	5.60	0.0	0-10
Cobalt				
Copper	11.9	13.4	12.6 (a)	0-10
Iron				
Lead	17.3	19.7	13.9 (a)	0-10
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel	2.60	2.00	23.1 (a)	0-10
Phosphorus				
Potassium				
Selenium	5.90	0.00	100.0(a)	0-10
Silicon				
Silver	1.10	0.00	100.0(a)	0-10
Sodium				
Strontium				
Sulfur				
Thallium	2.90	0.00	100.0(a)	0-10
Tin				
Titanium				
Tungsten				
Vanadium	207	214	3.6	0-10
Zinc	15.6	30.7	96.8*(b)	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28466
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-2R Original SDL 1:5	%DIF	QC Limits
Zirconium			

Associated samples MP28466: JD29693-2R, JD29693-3R, JD29693-16R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28467
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	16	46		
Antimony	100	2.5	4.7	0.0	<100
Arsenic	100	2	2.8	-0.40	<100
Barium	200	.4	13	0.90	<200
Beryllium	2.0	.1	.5	0.10	<2.0
Bismuth	20	3.6	4		
Boron	100	1.9	63		
Cadmium	4.0	.4	1	0.10	<4.0
Calcium	5000	5.6	99		
Chromium	10	.5	2	1.5	<10
Cobalt	50	.5	2.6		
Copper	10	1	5.9	4.5	<10
Iron	100	11	32		
Lead	100	1.2	1.8	0.50	<100
Lithium	50	2.3	7.3		
Magnesium	5000	65	140		
Manganese	15	.2	1.4		
Molybdenum	20	.4	3.6		
Nickel	10	.3	1.7	-0.10	<10
Phosphorus	50	4.1	18		
Potassium	10000	55	200		
Selenium	100	3.5	4.9	0.0	<100
Silicon	200	1.6	100		
Silver	10	1.1	1.9	0.50	<10
Sodium	10000	11	570		
Strontium	10	.1	1		
Sulfur	50	4.4	45		
Thallium	100	2.5	1.8	0.70	<100
Tin	10	1	3.7		
Titanium	10	.4	2.5		
Tungsten	50	2.8	40		
Vanadium	50	.6	1.8	0.20	<50
Zinc	20	.1	6.9	4.9	<20

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28467
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	RL	IDL	MDL	MB raw	final
Zirconium	10	.4	4.1		

Associated samples MP28467: JD29693-15R, JD29693-19R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28467
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-19R Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum					
Antimony	5.3	1890	2000	94.2	75-125
Arsenic	0.0	1850	2000	92.5	75-125
Barium	17.8	1870	2000	92.6	75-125
Beryllium	0.0	1890	2000	94.5	75-125
Bismuth					
Boron					
Cadmium	0.0	1920	2000	96.0	75-125
Calcium					
Chromium	1.0	1870	2000	93.5	75-125
Cobalt					
Copper	10.3	1850	2000	92.0	75-125
Iron					
Lead	38.8	1940	2000	95.1	75-125
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel	0.0	1870	2000	93.5	75-125
Phosphorus					
Potassium					
Selenium	0.0	1850	2000	92.5	75-125
Silicon					
Silver	0.0	237	250	94.8	75-125
Sodium					
Strontium					
Sulfur					
Thallium	0.0	1880	2000	94.0	75-125
Tin					
Titanium					
Tungsten					
Vanadium	0.0	1860	2000	93.0	75-125
Zinc	10.5	1900	2000	94.5	75-125

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28467
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-19R Original MS	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP28467: JD29693-15R, JD29693-19R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28467
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-19R Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	5.3	1910	2000	95.2	1.1	20
Arsenic	0.0	1850	2000	92.5	0.0	20
Barium	17.8	1850	2000	91.6	1.1	20
Beryllium	0.0	1880	2000	94.0	0.5	20
Bismuth						
Boron						
Cadmium	0.0	1910	2000	95.5	0.5	20
Calcium						
Chromium	1.0	1850	2000	92.5	1.1	20
Cobalt						
Copper	10.3	1830	2000	91.0	1.1	20
Iron						
Lead	38.8	1910	2000	93.6	1.6	20
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel	0.0	1850	2000	92.5	1.1	20
Phosphorus						
Potassium						
Selenium	0.0	1830	2000	91.5	1.1	20
Silicon						
Silver	0.0	237	250	94.8	0.0	20
Sodium						
Strontium						
Sulfur						
Thallium	0.0	1850	2000	92.5	1.6	20
Tin						
Titanium						
Tungsten						
Vanadium	0.0	1840	2000	92.0	1.1	20
Zinc	10.5	1880	2000	93.5	1.1	20

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28467
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-19R Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zirconium					

Associated samples MP28467: JD29693-15R, JD29693-19R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28467
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum				
Antimony	1880	2000	94.0	80-120
Arsenic	1830	2000	91.5	80-120
Barium	1840	2000	92.0	80-120
Beryllium	1870	2000	93.5	80-120
Bismuth				
Boron				
Cadmium	1900	2000	95.0	80-120
Calcium				
Chromium	1850	2000	92.5	80-120
Cobalt				
Copper	1820	2000	91.0	80-120
Iron				
Lead	1860	2000	93.0	80-120
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel	1850	2000	92.5	80-120
Phosphorus				
Potassium				
Selenium	1830	2000	91.5	80-120
Silicon				
Silver	234	250	93.6	80-120
Sodium				
Strontium				
Sulfur				
Thallium	1860	2000	93.0	80-120
Tin				
Titanium				
Tungsten				
Vanadium	1840	2000	92.0	80-120
Zinc	1860	2000	93.0	80-120

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28467
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP28467: JD29693-15R, JD29693-19R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28467
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-19R Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	5.30	0.00	100.0(a)	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	17.8	8.30	53.4 (a)	0-10
Beryllium	0.00	0.600	NC	0-10
Bismuth				
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	1.00	2.60	160.0(a)	0-10
Cobalt				
Copper	10.3	17.5	69.9 (a)	0-10
Iron				
Lead	38.8	53.1	36.9 (a)	0-10
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel	0.00	0.00	NC	0-10
Phosphorus				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Sulfur				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Tungsten				
Vanadium	0.00	0.00	NC	0-10
Zinc	10.5	104	888.6*(b	0-10

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28467
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-19R Original SDL 1:5	%DIF	QC Limits
Zirconium			

Associated samples MP28467: JD29693-15R, JD29693-19R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28493 | Methods: SW846 7470A
Matrix Type: LEACHATE | Units: mg/l

Prep Date: 09/08/21

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.00020	.000034	.000095	0.000023	<0.00020

Associated samples MP28493: JD29693-2R, JD29693-3R, JD29693-16R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.3.1
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28493
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 09/08/21

Metal	JD29693-2R Original MS		Spikelot HGPW3	% Rec	QC Limits
Mercury	0.000053	0.0021	0.0020	102.4	75-125

Associated samples MP28493: JD29693-2R, JD29693-3R, JD29693-16R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28493 | Methods: SW846 7470A
Matrix Type: LEACHATE | Units: mg/l

Prep Date: 09/08/21

Metal	JD29693-2R Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.000053	0.0022	0.0020	107.4	4.7	20

Associated samples MP28493: JD29693-2R, JD29693-3R, JD29693-16R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28493
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 09/08/21

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0022	0.0020	110.0	80-120

Associated samples MP28493: JD29693-2R, JD29693-3R, JD29693-16R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28494
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 09/08/21

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.00020	.000034	.000095	0.000021	<0.00020

Associated samples MP28494: JD29693-15R, JD29693-19R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28494
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 09/08/21

Metal	JD29693-19R Original MS		Spikelot HGPW3	% Rec	QC Limits
Mercury	0.000074	0.0023	0.0020	111.3	75-125

Associated samples MP28494: JD29693-15R, JD29693-19R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28494 | Methods: SW846 7470A
Matrix Type: LEACHATE | Units: mg/l

Prep Date: 09/08/21

Metal	JD29693-19R Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.000074	0.0022	0.0020	106.3	4.4	20

Associated samples MP28494: JD29693-15R, JD29693-19R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28494
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 09/08/21

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0022	0.0020	110.0	80-120

Associated samples MP28494: JD29693-15R, JD29693-19R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Nobis Engineering, Inc.

43 Hempstead Street, New London, CT

93203.15 PO#93203.15/200

SGS Job Number: JD29693R

Sampling Dates: 08/09/21 - 08/10/21

Report to:

Nobis Engineering, Inc.
585 Middlesex Street
Lowell, MA 01851
jbrunelle@nobis-group.com; ARoy@nobis-group.com;
gglennon@nobis-group.com
ATTN: Jeff Brunelle

Total number of pages in report: **98**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

SGS is the sole authority for authorizing edits or modifications to this document.
Unauthorized modification of this report is strictly prohibited.
Review standard terms at: http://www.sgs.com/en/terms-and-conditions
Please share your ideas about
how we can serve you better at:
EHS.US.CustomerCare@sgs.com

Table of Contents

-1-

Section 1: Sample Summary 3
Section 2: Case Narrative/Conformance Summary 4
Section 3: Summary of Hits 6
Section 4: Sample Results 9
- **4.1:** JD29693-1R: B-10-0002 10
- **4.2:** JD29693-2R: B-10-0204 12
- **4.3:** JD29693-3R: B-7-0002 14
- **4.4:** JD29693-7R: B-8-0002 16
- **4.5:** JD29693-8R: FD-01 18
- **4.6:** JD29693-11R: MW-6-0305 20
- **4.7:** JD29693-15R: MW-4-0002 23
- **4.8:** JD29693-16R: MW-4-0204 26
- **4.9:** JD29693-17R: MW-1R-0002 28
- **4.10:** JD29693-19R: B-2-0002 30
- **4.11:** JD29693-21R: B-3-0002 33
- **4.12:** JD29693-22R: B-3-0305 36

Section 5: Misc. Forms 39
- **5.1:** Chain of Custody 40
- **5.2:** RCP Form 45
- **5.3:** Sample Tracking Chronicle 46
- **5.4:** QC Evaluation: CT RCP Limits 49

Section 6: MS Semi-volatiles - QC Data Summaries 50
- **6.1:** Method Blank Summary 51
- **6.2:** Leachate Blank Summary 52
- **6.3:** Blank Spike Summary 53
- **6.4:** Matrix Spike/Matrix Spike Duplicate Summary 54
- **6.5:** Leachate Spike Summary 55
- **6.6:** Internal Standard Area Summaries 56
- **6.7:** Surrogate Recovery Summaries 58

Section 7: GC/LC Semi-volatiles - QC Data Summaries 59
- **7.1:** Method Blank Summary 60
- **7.2:** Leachate Blank Summary 63
- **7.3:** Blank Spike/Blank Spike Duplicate Summary 65
- **7.4:** Matrix Spike/Matrix Spike Duplicate Summary 67
- **7.5:** Leachate Spike Summary 68
- **7.6:** Surrogate Recovery Summaries 69

Section 8: Metals Analysis - QC Data Summaries 70
- **8.1:** Prep QC MP28466: As,Ba,Cd,Cr,Pb,Se,Ag 71
- **8.2:** Prep QC MP28467: As,Ba,Cd,Cr,Pb,Se,Ag 81
- **8.3:** Prep QC MP28493: Hg 91
- **8.4:** Prep QC MP28494: Hg 95

SGS North America Inc.

Sample Summary

Nobis Engineering, Inc.

Job No: JD29693R

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the RL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD29693-1R	08/09/21	09:15	AE	08/10/21	SO	Soil	B-10-0002
JD29693-2R	08/09/21	09:20	AE	08/10/21	SO	Soil	B-10-0204
JD29693-3R	08/09/21	09:45	AE	08/10/21	SO	Soil	B-7-0002
JD29693-7R	08/09/21	10:20	AE	08/10/21	SO	Soil	B-8-0002
JD29693-8R	08/09/21	16:00	AE	08/10/21	SO	Soil	FD-01
JD29693-11R	08/09/21	12:15	AE	08/10/21	SO	Soil	MW-6-0305
JD29693-15R	08/10/21	09:15	AE	08/10/21	SO	Soil	MW-4-0002
JD29693-16R	08/10/21	09:25	AE	08/10/21	SO	Soil	MW-4-0204
JD29693-17R	08/10/21	11:00	AE	08/10/21	SO	Soil	MW-1R-0002
JD29693-19R	08/10/21	13:05	AE	08/10/21	SO	Soil	B-2-0002
JD29693-21R	08/10/21	13:25	AE	08/10/21	SO	Soil	B-3-0002
JD29693-22R	08/10/21	13:30	AE	08/10/21	SO	Soil	B-3-0305

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Nobis Engineering, Inc.	**Job No**	JD29693R
Site:	43 Hempstead Street, New London, CT	**Report Date**	9/24/2021 3:10:36 PM

On 08/10/2021, 12 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.7 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD29693R was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: LEACHATE **Batch ID:** OP35296

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29693-15RLS, JD29693-15RMS, JD29693-15RMSD, JD29693-15RLS were used as the QC samples indicated.
- OP35296-MS/LS19 Recovery(s) for Benzo(a)pyrene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Naphthalene, Pyrene are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Naphthalene, Pyrene are outside control limits for sample OP35296-MSD.
- OP35296-MSD for Fluorene: Outside control limits due to high level in sample relative to spike amount.
- OP35296-MSD for Phenanthrene: Outside control limits due to high level in sample relative to spike amount.
- Only report PAHs.

GC/LC Semi-volatiles By Method CT-ETPH

Matrix: LEACHATE **Batch ID:** OP35297

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- OP35297-LB18 for o-Terphenyl: Outside of in house control limits.

Matrix: LEACHATE **Batch ID:** OP35551

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29693-7RLS, JD29693-7RMS, JD29693-7RMSD were used as the QC samples indicated.

Metals Analysis By Method SW846 6010D

Matrix: LEACHATE	Batch ID: MP28466

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29693-2RMS, JD29693-2RMSD, JD29693-2RSDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Cadmium, Lead, Selenium, Silver are outside control limits for sample MP28466-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Not all RLs meet RCP requirement.

Matrix: LEACHATE	Batch ID: MP28467

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29693-19RMS, JD29693-19RMSD, JD29693-19RSDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Barium, Chromium, Lead are outside control limits for sample MP28467-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Not all RLs meet RCP requirement.

Metals Analysis By Method SW846 7470A

Matrix: LEACHATE	Batch ID: MP28493

- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29693-2RMS, JD29693-2RMSD were used as the QC samples for metals.
- JD29693-2R for Mercury: Analyzed beyond Holdtime.
- JD29693-16R for Mercury: Analyzed beyond Holdtime.
- JD29693-3R for Mercury: Analyzed beyond Holdtime.

Matrix: LEACHATE	Batch ID: MP28494

- All method blanks for this batch meet method specific criteria.
- Sample(s) JD29693-19RMS, JD29693-19RMSD were used as the QC samples for metals.
- JD29693-15R for Mercury: Analyzed beyond Holdtime.
- JD29693-19R for Mercury: Analyzed beyond Holdtime.

General Chemistry By Method SW846 1312

Matrix: ALL	Batch ID: GN21596

- The data for SW846 1312 meets quality control requirements.

Matrix: ALL	Batch ID: GN21597

- The data for SW846 1312 meets quality control requirements.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD29693R
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD29693-1R	**B-10-0002**					
pH, SPLP Leachate		8.60			su	SW846 1312
Volume, SPLP Leachate		2.000			l	SW846 1312
Weight, SPLP Leachate		0.1000			kg	SW846 1312
Dry Weight, SPLP Leachate		0.08652			kg	SW846 1312
JD29693-2R	**B-10-0204**					
pH, SPLP Leachate		7.25			su	SW846 1312
Volume, SPLP Leachate		2.007			l	SW846 1312
Weight, SPLP Leachate		0.1003			kg	SW846 1312
Dry Weight, SPLP Leachate		0.09190			kg	SW846 1312
Lead		17.3	15		ug/l	SW846 6010D
JD29693-3R	**B-7-0002**					
pH, SPLP Leachate		7.69			su	SW846 1312
Volume, SPLP Leachate		2.012			l	SW846 1312
Weight, SPLP Leachate		0.1006			kg	SW846 1312
Dry Weight, SPLP Leachate		0.08933			kg	SW846 1312
Lead		109	15		ug/l	SW846 6010D
Mercury [a]		0.00020	0.00020		mg/l	SW846 7470A
JD29693-7R	**B-8-0002**					
pH, SPLP Leachate		9.20			su	SW846 1312
Volume, SPLP Leachate		2.016			l	SW846 1312
Weight, SPLP Leachate		0.1008			kg	SW846 1312
Dry Weight, SPLP Leachate		0.08123			kg	SW846 1312
CT-DRO (C9-C36)		0.137	0.098		mg/l	CT-ETPH
JD29693-8R	**FD-01**					
pH, SPLP Leachate		9.03			su	SW846 1312
Volume, SPLP Leachate		2.013			l	SW846 1312
Weight, SPLP Leachate		0.1006			kg	SW846 1312
Dry Weight, SPLP Leachate		0.08252			kg	SW846 1312
Acenaphthene		0.000442	0.00010		mg/l	SW846 8270E BY SIM
Acenaphthylene		0.000132	0.00010		mg/l	SW846 8270E BY SIM
Fluorene		0.000325	0.00010		mg/l	SW846 8270E BY SIM
Naphthalene		0.000247	0.00010		mg/l	SW846 8270E BY SIM
Phenanthrene		0.000461	0.000050		mg/l	SW846 8270E BY SIM

Summary of Hits

Job Number: JD29693R
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD29693-11R	**MW-6-0305**					
pH, SPLP Leachate		7.95			su	SW846 1312
Volume, SPLP Leachate		2.011			l	SW846 1312
Weight, SPLP Leachate		0.1005			kg	SW846 1312
Dry Weight, SPLP Leachate		0.08596			kg	SW846 1312
Acenaphthene		0.00143	0.00010		mg/l	SW846 8270E BY SIM
Acenaphthylene		0.000916	0.00010		mg/l	SW846 8270E BY SIM
Anthracene		0.000764	0.00010		mg/l	SW846 8270E BY SIM
Benzo(a)anthracene		0.000241	0.000050		mg/l	SW846 8270E BY SIM
Benzo(a)pyrene		0.000119	0.000050		mg/l	SW846 8270E BY SIM
Benzo(b)fluoranthene		0.000189	0.000050		mg/l	SW846 8270E BY SIM
Chrysene		0.000215	0.00010		mg/l	SW846 8270E BY SIM
Fluoranthene		0.00192	0.00010		mg/l	SW846 8270E BY SIM
Fluorene		0.00152	0.00010		mg/l	SW846 8270E BY SIM
Naphthalene		0.000337	0.00010		mg/l	SW846 8270E BY SIM
Phenanthrene		0.00284	0.000050		mg/l	SW846 8270E BY SIM
Pyrene		0.00163	0.00010		mg/l	SW846 8270E BY SIM
CT-DRO (C9-C36)		0.0980	0.096		mg/l	CT-ETPH
JD29693-15R	**MW-4-0002**					
pH, SPLP Leachate		8.87			su	SW846 1312
Volume, SPLP Leachate		2.012			l	SW846 1312
Weight, SPLP Leachate		0.1006			kg	SW846 1312
Dry Weight, SPLP Leachate		0.09024			kg	SW846 1312
Acenaphthene		0.00175	0.00010		mg/l	SW846 8270E BY SIM
Acenaphthylene		0.00184	0.00010		mg/l	SW846 8270E BY SIM
Anthracene		0.000878	0.00010		mg/l	SW846 8270E BY SIM
Benzo(a)anthracene		0.0000735	0.000050		mg/l	SW846 8270E BY SIM
Fluoranthene		0.000970	0.00010		mg/l	SW846 8270E BY SIM
Fluorene		0.00251	0.00010		mg/l	SW846 8270E BY SIM
Naphthalene		0.000431	0.00010		mg/l	SW846 8270E BY SIM
Phenanthrene		0.00410	0.000050		mg/l	SW846 8270E BY SIM
Pyrene		0.000719	0.00010		mg/l	SW846 8270E BY SIM
Lead		53.8	15		ug/l	SW846 6010D
JD29693-16R	**MW-4-0204**					
pH, SPLP Leachate		8.17			su	SW846 1312
Volume, SPLP Leachate		2.005			l	SW846 1312
Weight, SPLP Leachate		0.1003			kg	SW846 1312
Dry Weight, SPLP Leachate		0.07019			kg	SW846 1312
Lead		98.4	15		ug/l	SW846 6010D
Mercury [a]		0.00062	0.00020		mg/l	SW846 7470A

Summary of Hits

Job Number: JD29693R
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD29693-17R	**MW-1R-0002**					
pH, SPLP Leachate		8.90			su	SW846 1312
Volume, SPLP Leachate		2.018			l	SW846 1312
Weight, SPLP Leachate		0.1009			kg	SW846 1312
Dry Weight, SPLP Leachate		0.09272			kg	SW846 1312
Acenaphthene		0.00134	0.00010		mg/l	SW846 8270E BY SIM
Acenaphthylene		0.000497	0.00010		mg/l	SW846 8270E BY SIM
Anthracene		0.000193	0.00010		mg/l	SW846 8270E BY SIM
Fluoranthene		0.000224	0.00010		mg/l	SW846 8270E BY SIM
Fluorene		0.00163	0.00010		mg/l	SW846 8270E BY SIM
Naphthalene		0.000604	0.00010		mg/l	SW846 8270E BY SIM
Phenanthrene		0.00180	0.000050		mg/l	SW846 8270E BY SIM
Pyrene		0.000176	0.00010		mg/l	SW846 8270E BY SIM
JD29693-19R	**B-2-0002**					
pH, SPLP Leachate		9.34			su	SW846 1312
Volume, SPLP Leachate		2.015			l	SW846 1312
Weight, SPLP Leachate		0.1008			kg	SW846 1312
Dry Weight, SPLP Leachate		0.08544			kg	SW846 1312
Lead		38.8	15		ug/l	SW846 6010D
JD29693-21R	**B-3-0002**					
pH, SPLP Leachate		8.67			su	SW846 1312
Volume, SPLP Leachate		2.002			l	SW846 1312
Weight, SPLP Leachate		0.1001			kg	SW846 1312
Dry Weight, SPLP Leachate		0.09141			kg	SW846 1312
Phenanthrene		0.0000721	0.000050		mg/l	SW846 8270E BY SIM
JD29693-22R	**B-3-0305**					
pH, SPLP Leachate		7.76			su	SW846 1312
Volume, SPLP Leachate		2.002			l	SW846 1312
Weight, SPLP Leachate		0.1001			kg	SW846 1312
Dry Weight, SPLP Leachate		0.08761			kg	SW846 1312
Phenanthrene		0.000247	0.000050		mg/l	SW846 8270E BY SIM

(a) Analyzed beyond Holdtime.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	B-10-0002		
Lab Sample ID:	JD29693-1R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3510C	**Percent Solids:**	86.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y40460.D	1	09/23/21 00:53	CP	09/22/21 17:00	OP35551	G8Y1668
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	Units	Q
	CT-DRO (C9-C36)	ND		0.099	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	67%		50-150%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-10-0002		
Lab Sample ID:	JD29693-1R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	86.5
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	8.60		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.000		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1000		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.08652		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-10-0204		
Lab Sample ID:	JD29693-2R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	91.6
Project:	43 Hempstead Street, New London, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Barium	< 200		200	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Cadmium	< 4.0		4.0	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Chromium	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Lead	17.3		15	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Mercury [a]	< 0.00020		0.00020	mg/l	1	09/08/21	09/08/21	LM	SW846 7470A [2]	SW846 7470A [4]
Selenium	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Silver	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA51085
(2) Instrument QC Batch: MA51087
(3) Prep QC Batch: MP28466
(4) Prep QC Batch: MP28493

(a) Analyzed beyond Holdtime.

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	B-10-0204		
Lab Sample ID:	JD29693-2R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	91.6
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	7.25		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.007		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1003		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.09190		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-7-0002		
Lab Sample ID:	JD29693-3R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	88.8
Project:	43 Hempstead Street, New London, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Barium	< 200		200	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Cadmium	< 4.0		4.0	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Chromium	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Lead	109		15	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Mercury [a]	0.00020		0.00020	mg/l	1	09/08/21	09/08/21	LM	SW846 7470A [2]	SW846 7470A [4]
Selenium	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Silver	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA51085
(2) Instrument QC Batch: MA51087
(3) Prep QC Batch: MP28466
(4) Prep QC Batch: MP28493

(a) Analyzed beyond Holdtime.

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	B-7-0002		
Lab Sample ID:	JD29693-3R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	88.8
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	7.69		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.012		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1006		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.08933		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-8-0002		
Lab Sample ID:	JD29693-7R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3510C	**Percent Solids:**	80.6
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z40461.D	1	09/23/21 01:31	CP	09/22/21 17:00	OP35551	G8Z1748
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	Units	Q
	CT-DRO (C9-C36)	0.137		0.098	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	70%		50-150%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-8-0002		
Lab Sample ID:	JD29693-7R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	80.6
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	9.20		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.016		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1008		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.08123		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD29693-8R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	82.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M102256.D	1	09/09/21 14:46	KLS	09/08/21 08:15	OP35296	E4M4769
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	Units	Q
83-32-9	Acenaphthene	0.000442		0.00010	mg/l	
208-96-8	Acenaphthylene	0.000132		0.00010	mg/l	
120-12-7	Anthracene	ND		0.00010	mg/l	
56-55-3	Benzo(a)anthracene	ND		0.000050	mg/l	
50-32-8	Benzo(a)pyrene	ND		0.000050	mg/l	
205-99-2	Benzo(b)fluoranthene	ND		0.000050	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND		0.00010	mg/l	
207-08-9	Benzo(k)fluoranthene	ND		0.00010	mg/l	
218-01-9	Chrysene	ND		0.00010	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND		0.00010	mg/l	
206-44-0	Fluoranthene	ND		0.00010	mg/l	
86-73-7	Fluorene	0.000325		0.00010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND		0.00010	mg/l	
91-20-3	Naphthalene	0.000247		0.00010	mg/l	
85-01-8	Phenanthrene	0.000461		0.000050	mg/l	
129-00-0	Pyrene	ND		0.00010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		18-119%
321-60-8	2-Fluorobiphenyl	67%		18-104%
1718-51-0	Terphenyl-d14	63%		13-109%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD29693-8R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	82.0
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	9.03		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.013		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1006		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.08252		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-6-0305		
Lab Sample ID:	JD29693-11R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	85.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M102257.D	1	09/09/21 15:07	KLS	09/08/21 08:15	OP35296	E4M4769
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	Units	Q
83-32-9	Acenaphthene	0.00143		0.00010	mg/l	
208-96-8	Acenaphthylene	0.000916		0.00010	mg/l	
120-12-7	Anthracene	0.000764		0.00010	mg/l	
56-55-3	Benzo(a)anthracene	0.000241		0.000050	mg/l	
50-32-8	Benzo(a)pyrene	0.000119		0.000050	mg/l	
205-99-2	Benzo(b)fluoranthene	0.000189		0.000050	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND		0.00010	mg/l	
207-08-9	Benzo(k)fluoranthene	ND		0.00010	mg/l	
218-01-9	Chrysene	0.000215		0.00010	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND		0.00010	mg/l	
206-44-0	Fluoranthene	0.00192		0.00010	mg/l	
86-73-7	Fluorene	0.00152		0.00010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND		0.00010	mg/l	
91-20-3	Naphthalene	0.000337		0.00010	mg/l	
85-01-8	Phenanthrene	0.00284		0.000050	mg/l	
129-00-0	Pyrene	0.00163		0.00010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		18-119%
321-60-8	2-Fluorobiphenyl	62%		18-104%
1718-51-0	Terphenyl-d14	59%		13-109%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-0305		
Lab Sample ID:	JD29693-11R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3510C	**Percent Solids:**	85.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y40461.D	1	09/23/21 01:31	CP	09/22/21 17:00	OP35551	G8Y1668
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	Units	Q
	CT-DRO (C9-C36)	0.0980		0.096	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	67%		50-150%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-0305		
Lab Sample ID:	JD29693-11R	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	85.5
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	7.95		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.011		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1005		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.08596		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-4-0002		
Lab Sample ID:	JD29693-15R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	89.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M102258.D	1	09/09/21 15:28	KLS	09/08/21 08:15	OP35296	E4M4769
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	Units	Q
83-32-9	Acenaphthene	0.00175		0.00010	mg/l	
208-96-8	Acenaphthylene	0.00184		0.00010	mg/l	
120-12-7	Anthracene	0.000878		0.00010	mg/l	
56-55-3	Benzo(a)anthracene	0.0000735		0.000050	mg/l	
50-32-8	Benzo(a)pyrene	ND		0.000050	mg/l	
205-99-2	Benzo(b)fluoranthene	ND		0.000050	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND		0.00010	mg/l	
207-08-9	Benzo(k)fluoranthene	ND		0.00010	mg/l	
218-01-9	Chrysene	ND		0.00010	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND		0.00010	mg/l	
206-44-0	Fluoranthene	0.000970		0.00010	mg/l	
86-73-7	Fluorene	0.00251		0.00010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND		0.00010	mg/l	
91-20-3	Naphthalene	0.000431		0.00010	mg/l	
85-01-8	Phenanthrene	0.00410		0.000050	mg/l	
129-00-0	Pyrene	0.000719		0.00010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		18-119%
321-60-8	2-Fluorobiphenyl	63%		18-104%
1718-51-0	Terphenyl-d14	72%		13-109%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4-0002		
Lab Sample ID:	JD29693-15R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	89.7
Project:	43 Hempstead Street, New London, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Barium	< 200		200	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Cadmium	< 4.0		4.0	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Chromium	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Lead	53.8		15	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Mercury [a]	< 0.00020		0.00020	mg/l	1	09/08/21	09/08/21	LM	SW846 7470A [2]	SW846 7470A [4]
Selenium	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Silver	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA51085
(2) Instrument QC Batch: MA51087
(3) Prep QC Batch: MP28467
(4) Prep QC Batch: MP28494

(a) Analyzed beyond Holdtime.

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	MW-4-0002		
Lab Sample ID:	JD29693-15R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	89.7
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	8.87		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.012		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1006		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.09024		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-4-0204		
Lab Sample ID:	JD29693-16R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	70.0
Project:	43 Hempstead Street, New London, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Barium	< 200		200	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Cadmium	< 4.0		4.0	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Chromium	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Lead	98.4		15	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Mercury [a]	0.00062		0.00020	mg/l	1	09/08/21	09/08/21	LM	SW846 7470A [2]	SW846 7470A [4]
Selenium	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Silver	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA51085
(2) Instrument QC Batch: MA51087
(3) Prep QC Batch: MP28466
(4) Prep QC Batch: MP28493

(a) Analyzed beyond Holdtime.

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	MW-4-0204		
Lab Sample ID:	JD29693-16R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	70.0
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	8.17		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.005		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1003		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.07019		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-1R-0002		
Lab Sample ID:	JD29693-17R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	91.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M102259.D	1	09/09/21 15:48	KLS	09/08/21 08:15	OP35296	E4M4769
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	Units	Q
83-32-9	Acenaphthene	0.00134		0.00010	mg/l	
208-96-8	Acenaphthylene	0.000497		0.00010	mg/l	
120-12-7	Anthracene	0.000193		0.00010	mg/l	
56-55-3	Benzo(a)anthracene	ND		0.000050	mg/l	
50-32-8	Benzo(a)pyrene	ND		0.000050	mg/l	
205-99-2	Benzo(b)fluoranthene	ND		0.000050	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND		0.00010	mg/l	
207-08-9	Benzo(k)fluoranthene	ND		0.00010	mg/l	
218-01-9	Chrysene	ND		0.00010	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND		0.00010	mg/l	
206-44-0	Fluoranthene	0.000224		0.00010	mg/l	
86-73-7	Fluorene	0.00163		0.00010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND		0.00010	mg/l	
91-20-3	Naphthalene	0.000604		0.00010	mg/l	
85-01-8	Phenanthrene	0.00180		0.000050	mg/l	
129-00-0	Pyrene	0.000176		0.00010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		18-119%
321-60-8	2-Fluorobiphenyl	55%		18-104%
1718-51-0	Terphenyl-d14	68%		13-109%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R-0002		
Lab Sample ID:	JD29693-17R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	91.9
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	8.90		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.018		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1009		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.09272		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-2-0002		
Lab Sample ID:	JD29693-19R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3510C	**Percent Solids:**	84.8
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y40378.D	1	09/11/21 01:02	TC	09/10/21 13:00	OP35297	G8Y1661
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	Units	Q
	CT-DRO (C9-C36)	ND		0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	72%		50-150%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-2-0002		
Lab Sample ID:	JD29693-19R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	84.8
Project:	43 Hempstead Street, New London, CT		

Metals Analysis, SPLP Leachate SW846 1312

Analyte	Result	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Barium	< 200		200	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Cadmium	< 4.0		4.0	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Chromium	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Lead	38.8		15	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Mercury [a]	< 0.00020		0.00020	mg/l	1	09/08/21	09/08/21	LM	SW846 7470A [2]	SW846 7470A [4]
Selenium	< 100		100	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]
Silver	< 10		10	ug/l	1	09/07/21	09/08/21	ND	SW846 6010D [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA51085
(2) Instrument QC Batch: MA51087
(3) Prep QC Batch: MP28467
(4) Prep QC Batch: MP28494

(a) Analyzed beyond Holdtime.

RL = Reporting Limit
MCL = Maximum Contamination Level (not available)

Report of Analysis

Client Sample ID:	B-2-0002		
Lab Sample ID:	JD29693-19R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	84.8
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	9.34		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.015		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1008		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.08544		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-3-0002		
Lab Sample ID:	JD29693-21R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	91.3
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M102260.D	1	09/09/21 16:09	KLS	09/08/21 08:15	OP35296	E4M4769
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	Units	Q
83-32-9	Acenaphthene	ND		0.00010	mg/l	
208-96-8	Acenaphthylene	ND		0.00010	mg/l	
120-12-7	Anthracene	ND		0.00010	mg/l	
56-55-3	Benzo(a)anthracene	ND		0.000050	mg/l	
50-32-8	Benzo(a)pyrene	ND		0.000050	mg/l	
205-99-2	Benzo(b)fluoranthene	ND		0.000050	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND		0.00010	mg/l	
207-08-9	Benzo(k)fluoranthene	ND		0.00010	mg/l	
218-01-9	Chrysene	ND		0.00010	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND		0.00010	mg/l	
206-44-0	Fluoranthene	ND		0.00010	mg/l	
86-73-7	Fluorene	ND		0.00010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND		0.00010	mg/l	
91-20-3	Naphthalene	ND		0.00010	mg/l	
85-01-8	Phenanthrene	0.0000721		0.000050	mg/l	
129-00-0	Pyrene	ND		0.00010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		18-119%
321-60-8	2-Fluorobiphenyl	62%		18-104%
1718-51-0	Terphenyl-d14	70%		13-109%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0002		
Lab Sample ID:	JD29693-21R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3510C	**Percent Solids:**	91.3
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y40379.D	1	09/11/21 01:39	TC	09/10/21 13:00	OP35297	G8Y1661
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	Units	Q
	CT-DRO (C9-C36)	ND		0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		50-150%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0002		
Lab Sample ID:	JD29693-21R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	91.3
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	8.67		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.002		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1001		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.09141		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

Report of Analysis

Client Sample ID:	B-3-0305		
Lab Sample ID:	JD29693-22R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	87.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M102261.D	1	09/09/21 16:29	KLS	09/08/21 08:15	OP35296	E4M4769
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN PAH List **SPLP Leachate method SW846 1312**

CAS No.	Compound	Result	MCL	RL	Units	Q
83-32-9	Acenaphthene	ND		0.00010	mg/l	
208-96-8	Acenaphthylene	ND		0.00010	mg/l	
120-12-7	Anthracene	ND		0.00010	mg/l	
56-55-3	Benzo(a)anthracene	ND		0.000050	mg/l	
50-32-8	Benzo(a)pyrene	ND		0.000050	mg/l	
205-99-2	Benzo(b)fluoranthene	ND		0.000050	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND		0.00010	mg/l	
207-08-9	Benzo(k)fluoranthene	ND		0.00010	mg/l	
218-01-9	Chrysene	ND		0.00010	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND		0.00010	mg/l	
206-44-0	Fluoranthene	ND		0.00010	mg/l	
86-73-7	Fluorene	ND		0.00010	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND		0.00010	mg/l	
91-20-3	Naphthalene	ND		0.00010	mg/l	
85-01-8	Phenanthrene	0.000247		0.000050	mg/l	
129-00-0	Pyrene	ND		0.00010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	58%		18-119%
321-60-8	2-Fluorobiphenyl	48%		18-104%
1718-51-0	Terphenyl-d14	68%		13-109%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0305		
Lab Sample ID:	JD29693-22R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	CT-ETPH SW846 3510C	**Percent Solids:**	87.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Y40462.D	1	09/23/21 02:09	CP	09/22/21 17:00	OP35551	G8Y1668
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	Units	Q
	CT-DRO (C9-C36)	ND		0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		50-150%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0305		
Lab Sample ID:	JD29693-22R	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
		Percent Solids:	87.5
Project:	43 Hempstead Street, New London, CT		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
SPLP Ratio for Extractables and Metals							
pH, SPLP Leachate	7.76		su	1	09/04/21 09:22	MB	SW846 1312
Volume, SPLP Leachate	2.002		l	1	09/04/21 09:22	MB	SW846 1312
Weight, SPLP Leachate	0.1001		kg	1	09/04/21 09:22	MB	SW846 1312
Dry Weight, SPLP Leachate	0.08761		kg	1	09/04/21 09:22	MB	SW846 1312

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

SO
SLL

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-02-FORM-Standard COC

FED-EX Tracking #:
Bottle Order Control #: JD29693
SGS Quote #: TF-68321-148
SGS Job #: NEIMAL89598

Client / Reporting Information

Company Name: Nobis
Street Address: 585 Middlesex St
City / State / Zip: Lowell MA 01851
Project Contact / E-mail: Jeff Brunelle JBrunelle@nobisgroup.com
Phone #: 603-508-0084
Sampler(s) Name(s) / Phone #: A Epstein

Project Information

Project Name: 43 Hempstead St New London CT
Street: 43 Hempstead
City / State: New London CT
Project #: 93203.15
Client Purchase Order #: 93203.15/208
Project Manager: Jeff Brunelle

Billing Information (If different from Report to)

Company Name: Same
Street Address:
City / State / Zip:
Attention:

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	VOCs	ETPH	PAH SIM	Pesticides	PCBs Soxhlet	RCP metals + Hg	LAB USE ONLY
1	B-10-0002		8/9/21	915	AE	G	S	5					2	2	1		X	X	X	X	X	X	P51
2	B-10-0304			920													X	X	X	X	X	X	1414
3	B-7-0002			945													X	X	X	X	X	X	4012
4	B-7-0507			950													X	X	X	X	X	X	4013
5	B-9-0002			1005													X	X	X	X	X	X	D45
6	B-9-0305			1010													X	X	X	X	X	X	
7	B-8-0002			1026													X	X	X	X	X	X	
8	FD-01			1600													X	X	X	X	X	X	
9	B-8-0507			1025													X	X	X	X	X	X	
10	MW-6-0002			1210													X	X	X	X	X	X	
11	MW-6-0305			1215													X	X	X	X	X	X	
12	MW-5-0002			1330													X	X	X	X	X	X	

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [x] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special instructions

Hold remaining soil for potential SPLP ETPH, SPLP PAH, SPLP metals

SGS-ACCUTEST MARLBOR 8/10

http://www.sgs.com/en/terms-and-condition

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by	Date / Time	Received By	Relinquished By	Date / Time	Received By
1 MCS	8/10/21 14:55	1 [illegible]	2 [illegible]	8/10/21 15:00	2 Fed Ex
3 Fedex	8-11-21 8:03	3 [illegible]	4		4
5		5			

Custody Seal # 17403, 15404, 15 905 — Intact / Not Intact — Preserved where applicable — Absent — Therm. ID: — On Ice — Cooler Temp. °C 3.4°C

JD29693R: Chain of Custody
Page 1 of 5

CHAIN OF CUSTODY

SGS

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-02-FORM-Standard COC

FED-EX Tracking #:
Bottle Order Control #: JD29693
SGS Quote #:
SGS Job #:

Client / Reporting Information

Company Name: NoBis
Street Address: 565 Middlesex St
City: Lowell State: MA Zip: 01851
Project Contact: Jeff Brunelle E-mail: JBrunelle@nobis-group.com
Phone #: 603-505-0084
Sampler(s) Name(s): AEpstein Phone #:

Project Information

Project Name: 43 Hempstead St New London CT
Street: 43 Hempstead
City: New London State: CT
Project #: 93203.15
Client Purchase Order #: 93203.15 / 206
Project Manager: Jeff Brunelle

Billing Information (If different from Report to)
Company Name: Same
Street Address:
City: State: Zip:
Attention:

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	VOCs	ETPH	PAH SIM	Pesticides	PCB Soxhlet	RCP Metals + Hg						LAB USE ONLY
13	MW-05-0810		8/9/21	1340	AE	G	S	5					2	2	1		X	X	X	X	X	X						
14	TB-01			1605				3						2	1		X											
15	MW-4-0002		8/10/21	915				5					2	2	1		X	X	X	X	X	X						
16	MW-4-0204			925													X	X	X	X	X	X						
17	MW-1R-0002			1100													X	X	X	X	X	X						
18	MW-1R-0406			1105													X	X	X	X	X	X						
19	B-2-0002			1305				15					6	6	3		X	X	X	X	X	X						
20	B-2-0507			1255				5					2	2	1		X	X	X	X	X	X						
21	B-3-0002			1325				5									X	X	X	X	X	X						
22	B-3-0305			1330				5									X	X	X	X	X	X						

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink. * Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Hold remaining soil for potential SPLP ETPH, SPLP PAH, SPLP Metals
B-2-0002 MS/MSD

SGS-ACCUTEST MARLBOR 8/10

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	8/10/21 4:55	1	2	8/10/21 1840	2
Relinquished by: 3	Date / Time: 8/11/21 9:05	Received By: 3	Relinquished By: 4	Date / Time:	Received By: 4
Relinquished by: 5	Date / Time:	Received By: 5	Custody Seal #	[ ] Intact [ ] Not intact	Preserved where applicable [ ] Absent

On Ice [x] Cooler Temp. °C Therm. ID:

JD29693R: Chain of Custody
Page 2 of 5

SGS Sample Receipt Summary

Job Number: JD29693 **Client:** NOBIS ENGINEERING, INC. **Project:** SO: 43 HEMPSTEAD STREET, NEW LONDON,

Date / Time Received: 8/10/2021 6:00:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 2: (3.7); Cooler 3: (2.8);

Cooler Temps (Corrected) °C: Cooler 2: (3.7); Cooler 3: (2.8);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD29693R: Chain of Custody
Page 3 of 5

Job Change Order: JD29693

Requested Date:	9/2/2021	**Received Date:**	8/10/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	9/2/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	7

==========

Sample #: JD29693-1 and 7
Dept:
TAT: 7

Change:
Relog for BCTTPHSPLP, SPLPE, SPLPRATIO. (Okay to proceed out c hold)

==========

==========

Sample #: JD29693-11, 21 and 22
Dept:
TAT: 7

Change:
Relog for BCTTPHSPLP, B8270SPLPSIMPAH, SPLPE, SPLPRATIO (to proceed out of hold)

==========

==========

Sample #: JD29693-19
Dept:
TAT: 7

B-2-0002

Change:
Relog for BCTTPHSPLP, SPLPM, SPLPE, SPLPRATIO (Okay to proce out of hold)

==========

==========

Sample #: JD29693-8 and 17
Dept:
TAT: 7

Change:
Relog for B8270SPLPSIMPAH, SPLPE, SPLPRATIO (Okay to proceec of hold)

==========

Above Changes Per: Jeffrey Brunelle **Date/Time:** 9/2/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Job Change Order: JD29693

Requested Date:	9/2/2021	**Received Date:**	8/10/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	9/2/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	7

==========

Sample #: JD29693-2, 3, and 16

Dept:

TAT: 7

Change:
Relog for SPLPM, SPLPE, SPLPRATIO (Okay to proceed out of hold)

==========

==========

Sample #: JD29693-15

Dept:

TAT: 7

MW-4-0002

Change:
Relog for B8270SPLPSIMPAH, SPLPM, SPLPE, SPLPRATIO (Okay to proceed out of hold)

==========

Above Changes Per: Jeffrey Brunelle **Date/Time:** 9/2/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **SGS North America Inc.** **Client:** **Nobis Engineering, Inc.**

Project Location: **43 Hempstead Street, New London, CT** **Project Number:** **93203.15 / 1000**

Sampling Date(s): **8/9/2021**

Laboratory Sample ID(s): JD29693-2R, JD29693-3R, JD29693-7R, JD29693-8R, JD29693-11R, JD29693-15R, JD29693-16R, JD29693-17R, JD29693-19R, JD29693-21R, JD29693-22R, JD29693-1R

Methods: CT-ETPH, EPA 160.3 M, SW846 1312, SW846 6010D, SW846 7470A, SW846 8270E BY SIM

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

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

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

Authorized Signature: Position: General Manager

Printed Name: Mike Earp Date: 9/24/2021

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD29693R

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29693-1R	Collected: 09-AUG-21 09:15 By: AE		Received: 10-AUG-21 By: MK			
B-10-0002						
JD29693-1R	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-1R	CT-ETPH	23-SEP-21 00:53	CP	22-SEP-21	JL	BCTTPHSPLP
JD29693-2R	Collected: 09-AUG-21 09:20 By: AE		Received: 10-AUG-21 By: MK			
B-10-0204						
JD29693-2R	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-2R	SW846 6010D	08-SEP-21 00:55	ND	07-SEP-21	SF	EAG,EAS,EBA,ECD,ECR,EPB,ESE
JD29693-2R	SW846 7470A	08-SEP-21 14:23	LM	08-SEP-21	LM	EHG
JD29693-3R	Collected: 09-AUG-21 09:45 By: AE		Received: 10-AUG-21 By: MK			
B-7-0002						
JD29693-3R	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-3R	SW846 6010D	08-SEP-21 01:05	ND	07-SEP-21	SF	EAG,EAS,EBA,ECD,ECR,EPB,ESE
JD29693-3R	SW846 7470A	08-SEP-21 14:24	LM	08-SEP-21	LM	EHG
JD29693-7R	Collected: 09-AUG-21 10:20 By: AE		Received: 10-AUG-21 By: MK			
B-8-0002						
JD29693-7R	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-7R	CT-ETPH	23-SEP-21 01:31	CP	22-SEP-21	JL	BCTTPHSPLP
JD29693-8R	Collected: 09-AUG-21 16:00 By: AE		Received: 10-AUG-21 By: MK			
FD-01						
JD29693-8R	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-8R	SW846 8270E BY SIM	09-SEP-21 14:46	KLS	08-SEP-21	NW	B8270SPLPSIMPAH
JD29693-11R	Collected: 09-AUG-21 12:15 By: AE		Received: 10-AUG-21 By: MK			
MW-6-0305						
JD29693-11R	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-11R	SW846 8270E BY SIM	09-SEP-21 15:07	KLS	08-SEP-21	NW	B8270SPLPSIMPAH
JD29693-11R	CT-ETPH	23-SEP-21 01:31	CP	22-SEP-21	JL	BCTTPHSPLP

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD29693R

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29693-15R	Collected: 10-AUG-21 09:15 By: AE		Received: 10-AUG-21 By: MK			
MW-4-0002						
JD29693-15E	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-15E	SW846 6010D	08-SEP-21 00:10	ND	07-SEP-21	SF	EAG,EAS,EBA,ECD,ECR,EPB,ESE
JD29693-15E	SW846 7470A	08-SEP-21 14:39	LM	08-SEP-21	LM	EHG
JD29693-15E	SW846 8270E BY SIM	09-SEP-21 15:28	KLS	08-SEP-21	NW	B8270SPLPSIMPAH
JD29693-16R	Collected: 10-AUG-21 09:25 By: AE		Received: 10-AUG-21 By: MK			
MW-4-0204						
JD29693-16E	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-16E	SW846 6010D	08-SEP-21 01:10	ND	07-SEP-21	SF	EAG,EAS,EBA,ECD,ECR,EPB,ESE
JD29693-16E	SW846 7470A	08-SEP-21 14:26	LM	08-SEP-21	LM	EHG
JD29693-17R	Collected: 10-AUG-21 11:00 By: AE		Received: 10-AUG-21 By: MK			
MW-1R-0002						
JD29693-17E	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-17E	SW846 8270E BY SIM	09-SEP-21 15:48	KLS	08-SEP-21	NW	B8270SPLPSIMPAH
JD29693-19R	Collected: 10-AUG-21 13:05 By: AE		Received: 10-AUG-21 By: MK			
B-2-0002						
JD29693-19E	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-19E	SW846 6010D	08-SEP-21 00:20	ND	07-SEP-21	SF	EAG,EAS,EBA,ECD,ECR,EPB,ESE
JD29693-19E	SW846 7470A	08-SEP-21 14:38	LM	08-SEP-21	LM	EHG
JD29693-19R	CT-ETPH	11-SEP-21 01:02	TC	10-SEP-21	NW	BCTTPHSPLP
JD29693-21R	Collected: 10-AUG-21 13:25 By: AE		Received: 10-AUG-21 By: MK			
B-3-0002						
JD29693-21E	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-21E	SW846 8270E BY SIM	09-SEP-21 16:09	KLS	08-SEP-21	NW	B8270SPLPSIMPAH
JD29693-21R	CT-ETPH	11-SEP-21 01:39	TC	10-SEP-21	NW	BCTTPHSPLP
JD29693-22R	Collected: 10-AUG-21 13:30 By: AE		Received: 10-AUG-21 By: MK			
B-3-0305						

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD29693R

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29693-22R	SW846 1312	04-SEP-21 09:22	MB			SPLPRATIO
JD29693-22R	SW846 8270E BY SIM	09-SEP-21 16:29	KLS	08-SEP-21	NW	B8270SPLPSIMPAH
JD29693-22R	CT-ETPH	23-SEP-21 02:09	CP	22-SEP-21	JL	BCTTPHSPLP

QC Evaluation: CT RCP Limits

Job Number: JD29693R
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No CT RCP Limits Found.

* Sample used for QC is not from job JD29693R

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35296-MB1	4M102227A.D	1	09/09/21	CS	09/08/21	OP35296	E4M4768

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-8R, JD29693-11R, JD29693-15R, JD29693-17R, JD29693-21R, JD29693-22R

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.10	ug/l	
208-96-8	Acenaphthylene	ND	0.10	ug/l	
120-12-7	Anthracene	ND	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.050	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	ug/l	
218-01-9	Chrysene	ND	0.10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	ug/l	
206-44-0	Fluoranthene	ND	0.10	ug/l	
86-73-7	Fluorene	ND	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	ug/l	
91-20-3	Naphthalene	ND	0.10	ug/l	
85-01-8	Phenanthrene	ND	0.050	ug/l	
129-00-0	Pyrene	ND	0.10	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	78%	18-119%
321-60-8	2-Fluorobiphenyl	66%	18-104%
1718-51-0	Terphenyl-d14	63%	13-109%

Leachate Blank Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35296-LB19	4M102228.D	1	09/09/21	CS	09/08/21	OP35296	E4M4768

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-8R, JD29693-11R, JD29693-15R, JD29693-17R, JD29693-21R, JD29693-22R

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.10	ug/l	
208-96-8	Acenaphthylene	ND	0.10	ug/l	
120-12-7	Anthracene	ND	0.10	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.050	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.050	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.050	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	ug/l	
218-01-9	Chrysene	ND	0.10	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	ug/l	
206-44-0	Fluoranthene	ND	0.10	ug/l	
86-73-7	Fluorene	ND	0.10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	ug/l	
91-20-3	Naphthalene	ND	0.10	ug/l	
85-01-8	Phenanthrene	ND	0.050	ug/l	
129-00-0	Pyrene	ND	0.10	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	64%	18-119%
321-60-8	2-Fluorobiphenyl	54%	18-104%
1718-51-0	Terphenyl-d14	63%	13-109%

Blank Spike Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35296-BS12	4M102229.D	1	09/09/21	CS	09/08/21	OP35296	E4M4768

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-8R, JD29693-11R, JD29693-15R, JD29693-17R, JD29693-21R, JD29693-22R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
83-32-9	Acenaphthene	1	0.719	72	42-105
208-96-8	Acenaphthylene	1	0.681	68	36-99
120-12-7	Anthracene	1	0.789	79	44-111
56-55-3	Benzo(a)anthracene	1	0.777	78	33-130
50-32-8	Benzo(a)pyrene	1	0.792	79	35-117
205-99-2	Benzo(b)fluoranthene	1	0.745	75	26-145
191-24-2	Benzo(g,h,i)perylene	1	0.563	56	29-130
207-08-9	Benzo(k)fluoranthene	1	0.827	83	33-142
218-01-9	Chrysene	1	0.767	77	41-127
53-70-3	Dibenzo(a,h)anthracene	1	0.521	52	27-135
206-44-0	Fluoranthene	1	0.752	75	40-112
86-73-7	Fluorene	1	0.745	75	45-104
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.546	55	32-131
91-20-3	Naphthalene	1	0.763	76	21-120
85-01-8	Phenanthrene	1	0.799	80	38-114
129-00-0	Pyrene	1	0.775	78	38-124

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	83%	18-119%
321-60-8	2-Fluorobiphenyl	67%	18-104%
1718-51-0	Terphenyl-d14	63%	13-109%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35296-MS	4M102262.D	1	09/09/21	KLS	09/08/21	OP35296	E4M4769
OP35296-MSD	4M102263.D	1	09/09/21	KLS	09/08/21	OP35296	E4M4769
JD29693-15R	4M102258.D	1	09/09/21	KLS	09/08/21	OP35296	E4M4769

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-8R, JD29693-11R, JD29693-15R, JD29693-17R, JD29693-21R, JD29693-22R

CAS No.	Compound	JD29693-15R ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	1.75		1	2.36	61	1	1.06	-69* a	76* b	33-117/32
208-96-8	Acenaphthylene	1.84		1	2.37	53	1	1.03	-81* a	79* b	32-107/31
120-12-7	Anthracene	0.878		1	1.64	76	1	0.752	-13* a	74* b	44-126/28
56-55-3	Benzo(a)anthracene	0.0735		1	0.652	58	1	0.283	21* a	79* b	45-127/30
50-32-8	Benzo(a)pyrene	ND		1	0.392	39* a	1	0.165	17* a	82* b	40-131/31
205-99-2	Benzo(b)fluoranthene	0.0464		1	0.414	37	1	0.160	11* a	89* b	36-134/32
191-24-2	Benzo(g,h,i)perylene	ND		1	0.241	24* a	1	0.0859	9* a	95* b	37-134/32
207-08-9	Benzo(k)fluoranthene	ND		1	0.479	48	1	0.193	19* a	85* b	37-135/34
218-01-9	Chrysene	0.0711		1	0.655	58	1	0.299	23* a	75* b	46-125/28
53-70-3	Dibenzo(a,h)anthracene	ND		1	0.259	26* a	1	0.0898	9* a	97* b	36-139/31
206-44-0	Fluoranthene	0.970		1	1.63	66	1	0.728	-24* a	77* b	41-130/29
86-73-7	Fluorene	2.51		1	2.99	48	1	1.36	-115* c	75* b	38-124/31
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1	0.233	23* a	1	0.0890	9* a	89* b	37-137/33
91-20-3	Naphthalene	0.431		1	1.18	75	1	0.524	9* a	77* b	16-114/35
85-01-8	Phenanthrene	4.10		1	4.68	58	1	2.14	-196* c	74* b	44-125/29
129-00-0	Pyrene	0.719		1	1.40	68	1	0.616	-10* a	78* b	39-134/29

CAS No.	Surrogate Recoveries	MS	MSD	JD29693-15R	Limits
4165-60-0	Nitrobenzene-d5	72%	37%	76%	18-119%
321-60-8	2-Fluorobiphenyl	58%	31%	63%	18-104%
1718-51-0	Terphenyl-d14	68%	33%	72%	13-109%

(a) Outside control limits due to matrix interference.
(b) Outside of in house control limits.
(c) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Leachate Spike Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35296-LS19	4M102262.D	1	09/09/21	KLS	09/08/21	OP35296	E4M4769
JD29693-15R	4M102258.D	1	09/09/21	KLS	09/08/21	OP35296	E4M4769

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-8R, JD29693-11R, JD29693-15R, JD29693-17R, JD29693-21R, JD29693-22R

CAS No.	Compound	JD29693-15R ug/l	Q	Spike ug/l	LS ug/l	LS %	Limits
83-32-9	Acenaphthene	1.75		1	2.36	61	33-117
208-96-8	Acenaphthylene	1.84		1	2.37	53	32-107
120-12-7	Anthracene	0.878		1	1.64	76	44-126
56-55-3	Benzo(a)anthracene	0.0735		1	0.652	58	45-127
50-32-8	Benzo(a)pyrene	ND		1	0.392	39* [a]	40-131
205-99-2	Benzo(b)fluoranthene	0.0464		1	0.414	37	36-134
191-24-2	Benzo(g,h,i)perylene	ND		1	0.241	24* [a]	37-134
207-08-9	Benzo(k)fluoranthene	ND		1	0.479	48	37-135
218-01-9	Chrysene	0.0711		1	0.655	58	46-125
53-70-3	Dibenzo(a,h)anthracene	ND		1	0.259	26* [a]	36-139
206-44-0	Fluoranthene	0.970		1	1.63	66	41-130
86-73-7	Fluorene	2.51		1	2.99	48	38-124
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1	0.233	23* [a]	37-137
91-20-3	Naphthalene	0.431		1	1.18	75	16-114
85-01-8	Phenanthrene	4.10		1	4.68	58	44-125
129-00-0	Pyrene	0.719		1	1.40	68	39-134

CAS No.	Surrogate Recoveries	LS	JD29693-15R	Limits
4165-60-0	Nitrobenzene-d5	72%	76%	18-119%
321-60-8	2-Fluorobiphenyl	58%	63%	18-104%
1718-51-0	Terphenyl-d14	68%	72%	13-109%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	E4M4768-CC4755	**Injection Date:**	09/09/21
Lab File ID:	4M102223.D	**Injection Time:**	02:16
Instrument ID:	GCMS4M	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	42742	6.59	53954	8.04	100551	10.14	67367	12.78
Upper Limit [a]	85484	7.09	107908	8.54	201102	10.64	134734	13.28
Lower Limit [b]	21371	6.09	26977	7.54	50276	9.64	33684	12.28

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP35281A-MB1	49049	6.59	58674	8.04	109790	10.14	70818	12.78
OP35281A-BS12	47347	6.59	59334	8.04	109345	10.14	72826	12.78
OP35281A-BSD12	49112	6.59	62330	8.04	116090	10.14	76520	12.78
OP35296-MB1	48222	6.59	60597	8.04	113920	10.14	76623	12.78
OP35296-LB19	49089	6.59	61501	8.04	115462	10.14	73998	12.78
OP35296-BS12	48364	6.59	60821	8.04	111348	10.14	73799	12.78
ZZZZZZ	50109	6.59	61481	8.04	114249	10.14	74001	12.78
ZZZZZZ	47502	6.59	59249	8.04	110210	10.14	71226	12.78
ZZZZZZ	45271	6.59	58358	8.04	110238	10.14	71393	12.78
ZZZZZZ	45617	6.59	58331	8.04	113161	10.14	76985	12.78
ZZZZZZ	47043	6.59	58739	8.04	112354	10.14	72565	12.78
ZZZZZZ	48143	6.59	59075	8.04	111773	10.14	73040	12.78
ZZZZZZ	50180	6.59	61260	8.04	107986	10.14	68156	12.78
ZZZZZZ	46823	6.59	57131	8.05	104169	10.15	68867	12.80
ZZZZZZ	48032	6.59	57919	8.04	103392	10.14	66497	12.79
ZZZZZZ	48718	6.59	59223	8.04	110045	10.15	69466	12.79
ZZZZZZ	44319	6.59	53113	8.04	96376	10.15	64778	12.79
ZZZZZZ	45458	6.59	56989	8.04	104898	10.14	68658	12.80
ZZZZZZ	42714	6.59	53528	8.04	99583	10.14	66133	12.79

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	E4M4769-CC4755	**Injection Date:**	09/09/21
Lab File ID:	4M102255.D	**Injection Time:**	14:19
Instrument ID:	GCMS4M	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	51248	6.59	64465	8.04	116332	10.14	71715	12.78
Upper Limit [a]	102496	7.09	128930	8.54	232664	10.64	143430	13.28
Lower Limit [b]	25624	6.09	32233	7.54	58166	9.64	35858	12.28

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
JD29693-8R	53768	6.59	67394	8.04	120443	10.14	72909	12.78
JD29693-11R	49233	6.59	61571	8.04	113005	10.14	76369	12.78
JD29693-15R	50712	6.59	60362	8.04	104846	10.14	70748	12.78
JD29693-17R	50299	6.59	61544	8.04	110680	10.14	74770	12.78
JD29693-21R	52960	6.59	64444	8.04	114690	10.14	74480	12.78
JD29693-22R	55027	6.59	63158	8.04	113292	10.14	70917	12.78
OP35296-LS19	50422	6.59	63129	8.04	108561	10.14	69111	12.78
OP35296-MS	50422	6.59	63129	8.04	108561	10.14	69111	12.78
OP35296-MSD	47831	6.59	61551	8.04	113306	10.14	76971	12.78
ZZZZZZ	48252	6.59	57962	8.04	103886	10.14	70456	12.78
ZZZZZZ	45666	6.59	57366	8.04	107195	10.14	72411	12.78
ZZZZZZ	50346	6.59	61387	8.04	108485	10.14	70783	12.78

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: SW846 8270E BY SIM **Matrix:** LEACHATE

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JD29693-8R	4M102256.D	80	67	63
JD29693-11R	4M102257.D	73	62	59
JD29693-15R	4M102258.D	76	63	72
JD29693-17R	4M102259.D	65	55	68
JD29693-21R	4M102260.D	78	62	70
JD29693-22R	4M102261.D	58	48	68
OP35296-BS12	4M102229.D	83	67	63
OP35296-LB19	4M102228.D	64	54	63
OP35296-LS19	4M102262.D	72	58	68
OP35296-MB1	4M102227A.D	78	66	63
OP35296-MS	4M102262.D	72	58	68
OP35296-MSD	4M102263.D	37	31	33

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	18-119%
S2 = 2-Fluorobiphenyl	18-104%
S3 = Terphenyl-d14	13-109%

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35297-MB1	8Y40369.D	1	09/10/21	TC	09/10/21	OP35297	G8Y1661

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-19R, JD29693-21R

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	70%	50-150%

Method Blank Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35551-MB1	8Z40458.D	1	09/22/21	CP	09/22/21	OP35551	G8Z1748

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-1R, JD29693-7R, JD29693-11R, JD29693-22R

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	68%	50-150%

Method Blank Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35551-MB1	8Y40459.D	1	09/23/21	CP	09/22/21	OP35551	G8Y1668

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-1R, JD29693-7R, JD29693-11R, JD29693-22R

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	68%	50-150%

Leachate Blank Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35297-LB18	8Y40372.D	1	09/10/21	TC	09/10/21	OP35297	G8Y1661

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-19R, JD29693-21R

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	0.202	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	22%* [a]	50-150%

(a) Outside of in house control limits.

Leachate Blank Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35551-LB13	8Y40458.D	1	09/22/21	CP	09/22/21	OP35551	G8Y1668

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-1R, JD29693-7R, JD29693-11R, JD29693-22R

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	60%	50-150%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35297-BS1	8Y40370.D	1	09/10/21	TC	09/10/21	OP35297	G8Y1661
OP35297-BSD	8Y40371.D	1	09/10/21	TC	09/10/21	OP35297	G8Y1661

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-19R, JD29693-21R

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	CT-DRO (C9-C36)	0.8	0.683	85	0.667	83	2	60-120/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	74%	71%	50-150%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35551-BS1	8Z40459.D	1	09/23/21	CP	09/22/21	OP35551	G8Z1748
OP35551-BSD	8Z40460.D	1	09/23/21	CP	09/22/21	OP35551	G8Z1748

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-1R, JD29693-7R, JD29693-11R, JD29693-22R

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	CT-DRO (C9-C36)	0.8	0.603	75	0.607	76	1	60-120/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	73%	72%	50-150%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35551-MS	8Z40462.D	1	09/23/21	CP	09/22/21	OP35551	G8Z1748
OP35551-MSD	8Z40463.D	1	09/23/21	CP	09/22/21	OP35551	G8Z1748
JD29693-7R	8Z40461.D	1	09/23/21	CP	09/22/21	OP35551	G8Z1748

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-1R, JD29693-7R, JD29693-11R, JD29693-22R

CAS No.	Compound	JD29693-7R mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	CT-DRO (C9-C36)	0.137		0.777	0.646	66	0.777	0.693	72	7	60-120/30

CAS No.	Surrogate Recoveries	MS	MSD	JD29693-7R	Limits
84-15-1	o-Terphenyl	68%	72%	70%	50-150%

* = Outside of Control Limits.

Leachate Spike Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35551-LS13	8Z40462.D	1	09/23/21	CP	09/22/21	OP35551	G8Z1748
JD29693-7R	8Z40461.D	1	09/23/21	CP	09/22/21	OP35551	G8Z1748

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD29693-1R, JD29693-7R, JD29693-11R, JD29693-22R

CAS No.	Compound	JD29693-7R mg/l	Q	Spike mg/l	LS mg/l	LS %	Limits
	CT-DRO (C9-C36)	0.137		0.777	0.646	66	60-120

CAS No.	Surrogate Recoveries	LS	JD29693-7R	Limits
84-15-1	o-Terphenyl	68%	70%	50-150%

* = Outside of Control Limits.

Surrogate Recovery Summary

Job Number: JD29693R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: CT-ETPH **Matrix:** LEACHATE

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
JD29693-1R	8Y40460.D	67
JD29693-7R	8Z40461.D	70
JD29693-11R	8Y40461.D	67
JD29693-19R	8Y40378.D	72
JD29693-21R	8Y40379.D	68
JD29693-22R	8Y40462.D	69
OP35297-BS1	8Y40370.D	74
OP35297-BSD	8Y40371.D	71
OP35297-LB18	8Y40372.D	22* [b]
OP35297-MB1	8Y40369.D	70
OP35551-BS1	8Z40459.D	73
OP35551-BSD	8Z40460.D	72
OP35551-LB13	8Y40458.D	60
OP35551-LS13	8Z40462.D	68
OP35551-MB1	8Z40458.D	68
OP35551-MB1	8Y40459.D	68
OP35551-MS	8Z40462.D	68
OP35551-MSD	8Z40463.D	72

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	50-150%

(a) Recovery from GC signal #1
(b) Outside of in house control limits.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28466
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	16	46		
Antimony	100	2.5	4.7		
Arsenic	100	2	2.8	0.0	<100
Barium	200	.4	13	1.7	<200
Beryllium	2.0	.1	.5		
Bismuth	20	3.6	4		
Boron	100	1.9	63		
Cadmium	4.0	.4	1	0.10	<4.0
Calcium	5000	5.6	99		
Chromium	10	.5	2	0.60	<10
Cobalt	50	.5	2.6		
Copper	10	1	5.9		
Iron	100	11	32		
Lead	100	1.2	1.8	-0.50	<100
Lithium	50	2.3	7.3		
Magnesium	5000	65	140		
Manganese	15	.2	1.4		
Molybdenum	20	.4	3.6		
Nickel	10	.3	1.7		
Phosphorus	50	4.1	18		
Potassium	10000	55	200		
Selenium	100	3.5	4.9	-0.40	<100
Silicon	200	1.6	100		
Silver	10	1.1	1.9	0.10	<10
Sodium	10000	11	570		
Strontium	10	.1	1		
Sulfur	50	4.4	45		
Thallium	100	2.5	1.8		
Tin	10	1	3.7		
Titanium	10	.4	2.5		
Tungsten	50	2.8	40		
Vanadium	50	.6	1.8		
Zinc	20	.1	6.9		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28466
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	RL	IDL	MDL	MB raw	final
Zirconium	10	.4	4.1		

Associated samples MP28466: JD29693-2R, JD29693-3R, JD29693-16R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28466
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-2R Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	37.9	1850	2000	90.6	75-125
Barium	36.7	1860	2000	91.2	75-125
Beryllium					
Bismuth					
Boron					
Cadmium	0.50	1880	2000	94.0	75-125
Calcium					
Chromium	5.6	1830	2000	91.2	75-125
Cobalt					
Copper					
Iron					
Lead	17.3	1840	2000	91.1	75-125
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium	5.9	1810	2000	90.2	75-125
Silicon					
Silver	1.1	235	250	93.6	75-125
Sodium					
Strontium					
Sulfur					
Thallium					
Tin					
Titanium					
Tungsten					
Vanadium					
Zinc					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28466
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-2R Original MS	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP28466: JD29693-2R, JD29693-3R, JD29693-16R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28466
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-2R Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	37.9	1860	2000	91.1	0.5	20
Barium	36.7	1880	2000	92.2	1.1	20
Beryllium						
Bismuth						
Boron						
Cadmium	0.50	1890	2000	94.5	0.5	20
Calcium						
Chromium	5.6	1840	2000	91.7	0.5	20
Cobalt						
Copper						
Iron						
Lead	17.3	1850	2000	91.6	0.5	20
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Phosphorus						
Potassium						
Selenium	5.9	1820	2000	90.7	0.6	20
Silicon						
Silver	1.1	236	250	94.0	0.4	20
Sodium						
Strontium						
Sulfur						
Thallium						
Tin						
Titanium						
Tungsten						
Vanadium						
Zinc						

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28466 | Methods: SW846 6010D
Matrix Type: LEACHATE | Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-2R Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zirconium					

Associated samples MP28466: JD29693-2R, JD29693-3R, JD29693-16R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28466
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	1840	2000	92.0	80-120
Barium	1840	2000	92.0	80-120
Beryllium				
Bismuth				
Boron				
Cadmium	1890	2000	94.5	80-120
Calcium				
Chromium	1850	2000	92.5	80-120
Cobalt				
Copper				
Iron				
Lead	1850	2000	92.5	80-120
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium	1830	2000	91.5	80-120
Silicon				
Silver	236	250	94.4	80-120
Sodium				
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc				

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28466
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP28466: JD29693-2R, JD29693-3R, JD29693-16R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28466
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-2R Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	37.9	41.7	10.0	0-10
Barium	36.7	39.9	8.7	0-10
Beryllium				
Bismuth				
Boron				
Cadmium	0.500	0.00	100.0(a)	0-10
Calcium				
Chromium	5.60	5.60	0.0	0-10
Cobalt				
Copper				
Iron				
Lead	17.3	19.7	13.9 (a)	0-10
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium	5.90	0.00	100.0(a)	0-10
Silicon				
Silver	1.10	0.00	100.0(a)	0-10
Sodium				
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc				

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28466
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-2R Original SDL 1:5	%DIF	QC Limits
Zirconium			

Associated samples MP28466: JD29693-2R, JD29693-3R, JD29693-16R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

8.1.4

8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28467
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	16	46		
Antimony	100	2.5	4.7		
Arsenic	100	2	2.8	-0.40	<100
Barium	200	.4	13	0.90	<200
Beryllium	2.0	.1	.5		
Bismuth	20	3.6	4		
Boron	100	1.9	63		
Cadmium	4.0	.4	1	0.10	<4.0
Calcium	5000	5.6	99		
Chromium	10	.5	2	1.5	<10
Cobalt	50	.5	2.6		
Copper	10	1	5.9		
Iron	100	11	32		
Lead	100	1.2	1.8	0.50	<100
Lithium	50	2.3	7.3		
Magnesium	5000	65	140		
Manganese	15	.2	1.4		
Molybdenum	20	.4	3.6		
Nickel	10	.3	1.7		
Phosphorus	50	4.1	18		
Potassium	10000	55	200		
Selenium	100	3.5	4.9	0.0	<100
Silicon	200	1.6	100		
Silver	10	1.1	1.9	0.50	<10
Sodium	10000	11	570		
Strontium	10	.1	1		
Sulfur	50	4.4	45		
Thallium	100	2.5	1.8		
Tin	10	1	3.7		
Titanium	10	.4	2.5		
Tungsten	50	2.8	40		
Vanadium	50	.6	1.8		
Zinc	20	.1	6.9		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28467
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	RL	IDL	MDL	MB raw	final
Zirconium	10	.4	4.1		

Associated samples MP28467: JD29693-15R, JD29693-19R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28467
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-19R Original	MS	Spikelot MPSPK2	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	0.0	1850	2000	92.5	75-125
Barium	17.8	1870	2000	92.6	75-125
Beryllium					
Bismuth					
Boron					
Cadmium	0.0	1920	2000	96.0	75-125
Calcium					
Chromium	1.0	1870	2000	93.5	75-125
Cobalt					
Copper					
Iron					
Lead	38.8	1940	2000	95.1	75-125
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium	0.0	1850	2000	92.5	75-125
Silicon					
Silver	0.0	237	250	94.8	75-125
Sodium					
Strontium					
Sulfur					
Thallium					
Tin					
Titanium					
Tungsten					
Vanadium					
Zinc					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28467
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-19R Original MS	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP28467: JD29693-15R, JD29693-19R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28467
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-19R Original	MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	0.0	1850	2000	92.5	0.0	20
Barium	17.8	1850	2000	91.6	1.1	20
Beryllium						
Bismuth						
Boron						
Cadmium	0.0	1910	2000	95.5	0.5	20
Calcium						
Chromium	1.0	1850	2000	92.5	1.1	20
Cobalt						
Copper						
Iron						
Lead	38.8	1910	2000	93.6	1.6	20
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Phosphorus						
Potassium						
Selenium	0.0	1830	2000	91.5	1.1	20
Silicon						
Silver	0.0	237	250	94.8	0.0	20
Sodium						
Strontium						
Sulfur						
Thallium						
Tin						
Titanium						
Tungsten						
Vanadium						
Zinc						

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28467
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-19R Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zirconium					

Associated samples MP28467: JD29693-15R, JD29693-19R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28467
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	1830	2000	91.5	80-120
Barium	1840	2000	92.0	80-120
Beryllium				
Bismuth				
Boron				
Cadmium	1900	2000	95.0	80-120
Calcium				
Chromium	1850	2000	92.5	80-120
Cobalt				
Copper				
Iron				
Lead	1860	2000	93.0	80-120
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium	1830	2000	91.5	80-120
Silicon				
Silver	234	250	93.6	80-120
Sodium				
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc				

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28467
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Zirconium				

Associated samples MP28467: JD29693-15R, JD29693-19R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28467
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-19R Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	0.00	0.00	NC	0-10
Barium	17.8	8.30	53.4 (a)	0-10
Beryllium				
Bismuth				
Boron				
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	1.00	2.60	160.0(a)	0-10
Cobalt				
Copper				
Iron				
Lead	38.8	53.1	36.9 (a)	0-10
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc				

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28467
Matrix Type: LEACHATE

Methods: SW846 6010D
Units: ug/l

Prep Date: 09/07/21

Metal	JD29693-19R Original SDL 1:5	%DIF	QC Limits
Zirconium			

Associated samples MP28467: JD29693-15R, JD29693-19R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28493
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 09/08/21

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.00020	.000034	.000095	0.000023	<0.00020

Associated samples MP28493: JD29693-2R, JD29693-3R, JD29693-16R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.3.1
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28493
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 09/08/21

Metal	JD29693-2R Original MS		Spikelot HGPW3	% Rec	QC Limits
Mercury	0.000053	0.0021	0.0020	102.4	75-125

Associated samples MP28493: JD29693-2R, JD29693-3R, JD29693-16R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28493 | Methods: SW846 7470A
Matrix Type: LEACHATE | Units: mg/l

Prep Date: 09/08/21

Metal	JD29693-2R Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.000053	0.0022	0.0020	107.4	4.7	20

Associated samples MP28493: JD29693-2R, JD29693-3R, JD29693-16R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

8.3.2
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28493
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 09/08/21

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0022	0.0020	110.0	80-120

Associated samples MP28493: JD29693-2R, JD29693-3R, JD29693-16R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28494
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 09/08/21

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.00020	.000034	.000095	0.000021	<0.00020

Associated samples MP28494: JD29693-15R, JD29693-19R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28494
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 09/08/21

Metal	JD29693-19R Original MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.000074 0.0023	0.0020	111.3	75-125

Associated samples MP28494: JD29693-15R, JD29693-19R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28494 | Methods: SW846 7470A
Matrix Type: LEACHATE | Units: mg/l

Prep Date: 09/08/21

Metal	JD29693-19R Original MSD		Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.000074	0.0022	0.0020	106.3	4.4	20

Associated samples MP28494: JD29693-15R, JD29693-19R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD29693R
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28494
Matrix Type: LEACHATE

Methods: SW846 7470A
Units: mg/l

Prep Date: 09/08/21

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.0022	0.0020	110.0	80-120

Associated samples MP28494: JD29693-15R, JD29693-19R

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Nobis Engineering, Inc.

43 Hempstead Street, New London, CT

93203.15 PO#93203.15/200

SGS Job Number: JD29693RT

Sampling Dates: 08/09/21 - 08/10/21

Report to:

Nobis Engineering, Inc.
585 Middlesex Street
Lowell, MA 01851
jbrunelle@nobis-group.com; ARoy@nobis-group.com;
gglennon@nobis-group.com
ATTN: Jeff Brunelle

Total number of pages in report: 32

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

SGS is the sole authority for authorizing edits or modifications to this document.
Unauthorized modification of this report is strictly prohibited.
Review standard terms at: http://www.sgs.com/en/terms-and-conditions
Please share your ideas about how we can serve you better at:
EHS.US.CustomerCare@sgs.com

Table of Contents

-1-

Section 1: Sample Summary **3**
Section 2: Case Narrative/Conformance Summary **4**
Section 3: Summary of Hits **5**
Section 4: Sample Results **6**
4.1: JD29693-8RT: FD-01 7
4.2: JD29693-11RT: MW-6-0305 8
4.3: JD29693-15RT: MW-4-0002 9
4.4: JD29693-17RT: MW-1R-0002 10
4.5: JD29693-21RT: B-3-0002 11
4.6: JD29693-22RT: B-3-0305 12
Section 5: Misc. Forms **13**
5.1: Chain of Custody 14
5.2: RCP Form 22
5.3: Sample Tracking Chronicle 23
5.4: QC Evaluation: CT RCP Limits 24
Section 6: MS Semi-volatiles - QC Data Summaries **25**
6.1: Method Blank Summary 26
6.2: Leachate Blank Summary 27
6.3: Blank Spike Summary 28
6.4: Leachate Spike Summary 29
6.5: Internal Standard Area Summaries 30
6.6: Surrogate Recovery Summaries 32

SGS North America Inc.

Sample Summary

Nobis Engineering, Inc.

Job No: JD29693RT

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD29693-2RT	08/09/21	09:20	AE	08/10/21	SO	Soil	B-10-0204
JD29693-3RT	08/09/21	09:45	AE	08/10/21	SO	Soil	B-7-0002
JD29693-8RT	08/09/21	16:00	AE	08/10/21	SO	Soil	FD-01
JD29693-11RT	08/09/21	12:15	AE	08/10/21	SO	Soil	MW-6-0305
JD29693-15RT	08/10/21	09:15	AE	08/10/21	SO	Soil	MW-4-0002
JD29693-16RT	08/10/21	09:25	AE	08/10/21	SO	Soil	MW-4-0204
JD29693-17RT	08/10/21	11:00	AE	08/10/21	SO	Soil	MW-1R-0002
JD29693-19RT	08/10/21	13:05	AE	08/10/21	SO	Soil	B-2-0002
JD29693-21RT	08/10/21	13:25	AE	08/10/21	SO	Soil	B-3-0002
JD29693-22RT	08/10/21	13:30	AE	08/10/21	SO	Soil	B-3-0305

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the RL

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Nobis Engineering, Inc.	**Job No**	JD29693RT
Site:	43 Hempstead Street, New London, CT	**Report Date**	10/27/2021 11:19:21 A

On 08/10/2021, 6 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.7 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD29693RT was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: LEACHATE **Batch ID:** OP35296

- All samples were extracted within the recommended method holding time.
- Sample(s) JD29693-15RLS were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Only report 2-Methylnaphthalene.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD29693RT
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD29693-8RT	**FD-01**					
2-Methylnaphthalene		0.000423	0.00010		mg/l	SW846 8270E BY SIM
JD29693-11RT	**MW-6-0305**					
2-Methylnaphthalene		0.000484	0.00010		mg/l	SW846 8270E BY SIM
JD29693-15RT	**MW-4-0002**					
2-Methylnaphthalene		0.000410	0.00010		mg/l	SW846 8270E BY SIM
JD29693-17RT	**MW-1R-0002**					
2-Methylnaphthalene		0.00264	0.00010		mg/l	SW846 8270E BY SIM
JD29693-21RT	**B-3-0002**					
No hits reported in this sample.						
JD29693-22RT	**B-3-0305**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD29693-8RT	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	82.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M102256.D	1	09/09/21 14:46	KLS	09/08/21 08:15	OP35296	E4M4769
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	Units	Q
91-57-6	2-Methylnaphthalene	0.000423		0.00010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		12-75%
4165-62-2	Phenol-d5	32%		14-59%
118-79-6	2,4,6-Tribromophenol	100%		19-157%
4165-60-0	Nitrobenzene-d5	80%		18-119%
321-60-8	2-Fluorobiphenyl	67%		18-104%
1718-51-0	Terphenyl-d14	63%		13-109%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-0305		
Lab Sample ID:	JD29693-11RT	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	85.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M102257.D	1	09/09/21 15:07	KLS	09/08/21 08:15	OP35296	E4M4769
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	Units	Q
91-57-6	2-Methylnaphthalene	0.000484		0.00010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		12-75%
4165-62-2	Phenol-d5	28%		14-59%
118-79-6	2,4,6-Tribromophenol	92%		19-157%
4165-60-0	Nitrobenzene-d5	73%		18-119%
321-60-8	2-Fluorobiphenyl	62%		18-104%
1718-51-0	Terphenyl-d14	59%		13-109%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4-0002		
Lab Sample ID:	JD29693-15RT	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	89.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M102258.D	1	09/09/21 15:28	KLS	09/08/21 08:15	OP35296	E4M4769
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	Units	Q
91-57-6	2-Methylnaphthalene	0.000410		0.00010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		12-75%
4165-62-2	Phenol-d5	32%		14-59%
118-79-6	2,4,6-Tribromophenol	92%		19-157%
4165-60-0	Nitrobenzene-d5	76%		18-119%
321-60-8	2-Fluorobiphenyl	63%		18-104%
1718-51-0	Terphenyl-d14	72%		13-109%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R-0002		
Lab Sample ID:	JD29693-17RT	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	91.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M102259.D	1	09/09/21 15:48	KLS	09/08/21 08:15	OP35296	E4M4769
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	Units	Q
91-57-6	2-Methylnaphthalene	0.00264		0.00010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		12-75%
4165-62-2	Phenol-d5	22%		14-59%
118-79-6	2,4,6-Tribromophenol	87%		19-157%
4165-60-0	Nitrobenzene-d5	65%		18-119%
321-60-8	2-Fluorobiphenyl	55%		18-104%
1718-51-0	Terphenyl-d14	68%		13-109%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-3-0002		
Lab Sample ID:	JD29693-21RT	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	91.3
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M102260.D	1	09/09/21 16:09	KLS	09/08/21 08:15	OP35296	E4M4769
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	Units	Q
91-57-6	2-Methylnaphthalene	ND		0.00010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	49%		12-75%
4165-62-2	Phenol-d5	32%		14-59%
118-79-6	2,4,6-Tribromophenol	91%		19-157%
4165-60-0	Nitrobenzene-d5	78%		18-119%
321-60-8	2-Fluorobiphenyl	62%		18-104%
1718-51-0	Terphenyl-d14	70%		13-109%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0305		
Lab Sample ID:	JD29693-22RT	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	87.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M102261.D	1	09/09/21 16:29	KLS	09/08/21 08:15	OP35296	E4M4769
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

SPLP Leachate method SW846 1312

CAS No.	Compound	Result	MCL	RL	Units	Q
91-57-6	2-Methylnaphthalene	ND		0.00010	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	28%		12-75%
4165-62-2	Phenol-d5	19%		14-59%
118-79-6	2,4,6-Tribromophenol	90%		19-157%
4165-60-0	Nitrobenzene-d5	58%		18-119%
321-60-8	2-Fluorobiphenyl	48%		18-104%
1718-51-0	Terphenyl-d14	68%		13-109%

ND = Not detected
MCL = Maximum Contamination Level (not available)
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

5

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

SO
SLL

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-02-FORM-Standard COC

FED-EX Tracking #:
Bottle Order Control #: JD29693
SGS Quote #: TF-68321-148
SGS Job #: NEIMAL89598

Client / Reporting Information

Company Name: Nobis
Street Address: 585 Middlesex St
City / State / Zip: Lowell MA 01851
Project Contact / E-mail: Jeff Brunelle JBrunelle@nobisgroup.com
Phone #: 603-508-0084
Sampler(s) Name(s) / Phone #: A Epstein

Project Information

Project Name: 43 Hempstead St New London CT
Street: 43 Hempstead
City / State: New London CT
Project #: 93203.15
Client Purchase Order #: 93203.15/208
Project Manager: Jeff Brunelle

Billing Information (If different from Report to)

Company Name: Same
Street Address:
City / State / Zip:
Attention:

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	VOCs	ETPH	PAH SIM	Pesticides	PCBs Soxhlet	RCP metals + Hg	LAB USE ONLY
1	B-10-0002		8/9/21	915	AE	G	S	5					2	2	1		X	X	X	X	X	X	P51
2	B-10-0304			920													X	X	X	X	X	X	1414
3	B-7-0002			945													X	X	X	X	X	X	4012
4	B-7-0507			950													X	X	X	X	X	X	4013
5	B-9-0002			1005													X	X	X	X	X	X	D45
6	B-9-0305			1010													X	X	X	X	X	X	
7	B-8-0002			1026													X	X	X	X	X	X	
8	FD-01			1600													X	X	X	X	X	X	
9	B-8-0507			1025													X	X	X	X	X	X	
10	MW-6-0002			1210													X	X	X	X	X	X	
11	MW-6-0305			1215													X	X	X	X	X	X	
12	MW-5-0002			1330													X	X	X	X	X	X	

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [x] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special instructions

Hold remaining soil for potential SPLP ETPH, SPLP PAH, SPLP metals

SGS-ACCUTEST MARLBOR 8/10

http://www.sgs.com/en/terms-and-condition

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by	Date / Time	Received By	Relinquished By	Date / Time	Received By
1 MCS	8/10/21 14:55	1 [illegible]	2 [illegible]	8/10/21 18:00	2 Fed Ex
3 Fedex	8-11-21 8:03	3 [illegible]	4		4
5		5			

Custody Seal # 17403, 15404, 15 905 — Intact / Not Intact — Preserved where applicable — Absent — Therm. ID: — On Ice — Cooler Temp. °C 3.4°C

JD29693RT: Chain of Custody
Page 1 of 8

CHAIN OF CUSTODY

SGS

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-02-FORM-Standard COC

FED-EX Tracking #:
Bottle Order Control #: JD29693
SGS Quote #:
SGS Job #:

Client / Reporting Information

Company Name: NoBis
Street Address: 565 Middlesex St
City: Lowell State: MA Zip: 01851
Project Contact: Jeff Brunelle E-mail: JBrunelle@nobis-group.com
Phone #: 603-505-0084
Sampler(s) Name(s): AEpstein Phone #:

Project Information

Project Name: 43 Hempstead St New London CT
Street: 43 Hempstead
City: New London State: CT
Project #: 93203.15
Client Purchase Order #: 93203.15 / 206
Project Manager: Jeff Brunelle

Billing Information (If different from Report to)
Company Name: Same
Street Address:
City: State: Zip:
Attention:

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	VOCs	ETPH	PAH SIM	Pesticides	PCB Soxhlet	RCP Metals + Hg						LAB USE ONLY
13	MW-05-0810		8/9/21	1340	AE	G	S	5					2	2	1		X	X	X	X	X	X						
14	TB-01			1605				3						2	1		X											
15	MW-4-0002		8/10/21	915				5					2	2	1		X	X	X	X	X	X						
16	MW-4-0204			925													X	X	X	X	X	X						
17	MW-1R-0002			1100													X	X	X	X	X	X						
18	MW-1R-0406			1105													X	X	X	X	X	X						
19	B-2-0002			1305				15					6	6	3		X	X	X	X	X	X						
20	B-2-0507			1255				5					2	2	1		X	X	X	X	X	X						
21	B-3-0002			1325				5									X	X	X	X	X	X						
22	B-3-0305			1330				5									X	X	X	X	X	X						

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink. * Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Hold remaining soil for potential SPLP ETPH, SPLP PAH, SPLP Metals
B-2-0002 MS/MSD

SGS-ACCUTEST MARLBOR 8/10

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished By:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	8/10/21	1	2	8/10/21 1900	2
Relinquished By: 3	Date / Time: 8/11/21 9:05	Received By: 3	Relinquished By: 4	Date / Time:	Received By: 4
Relinquished By: 5	Date / Time:	Received By: 5	Custody Seal #	[ ] Intact [ ] Not intact	Preserved where applicable [ ] Absent; Therm. ID:

On Ice: Cooler Temp. °C

5.1 5

SGS Sample Receipt Summary

Job Number: JD29693 **Client:** NOBIS ENGINEERING, INC. **Project:** SO: 43 HEMPSTEAD STREET, NEW LONDON,

Date / Time Received: 8/10/2021 6:00:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 2: (3.7); Cooler 3: (2.8);

Cooler Temps (Corrected) °C: Cooler 2: (3.7); Cooler 3: (2.8);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD29693RT: Chain of Custody
Page 3 of 8

Job Change Order: JD29693

Requested Date:	9/2/2021	**Received Date:**	8/10/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	9/2/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	7

==========

Sample #: JD29693-1 and 7
Dept:
TAT: 7
Change:
Relog for BCTTPHSPLP, SPLPE, SPLPRATIO. (Okay to proceed out c hold)

==========

==========

Sample #: JD29693-11, 21 and 22
Dept:
TAT: 7
Change:
Relog for BCTTPHSPLP, B8270SPLPSIMPAH, SPLPE, SPLPRATIO (to proceed out of hold)

==========

==========

Sample #: JD29693-19
Dept:
TAT: 7
Change:
Relog for BCTTPHSPLP, SPLPM, SPLPE, SPLPRATIO (Okay to proce out of hold)

B-2-0002

==========

==========

Sample #: JD29693-8 and 17
Dept:
TAT: 7
Change:
Relog for B8270SPLPSIMPAH, SPLPE, SPLPRATIO (Okay to proceec of hold)

==========

Above Changes Per: Jeffrey Brunelle **Date/Time:** 9/2/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Job Change Order: JD29693

Requested Date:	9/2/2021	**Received Date:**	8/10/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	9/2/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	7

==========

Sample #: JD29693-2, 3, and 16

Dept:

TAT: 7

Change:
Relog for SPLPM, SPLPE, SPLPRATIO (Okay to proceed out of hold)

==========

==========

Sample #: JD29693-15

Dept:

TAT: 7

MW-4-0002

Change:
Relog for B8270SPLPSIMPAH, SPLPM, SPLPE, SPLPRATIO (Okay to proceed out of hold)

==========

Above Changes Per: Jeffrey Brunelle **Date/Time:** 9/2/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Job Change Order: JD29693R

Requested Date:	10/11/2021	**Received Date:**	8/10/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	10/11/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	3

==========

Sample #: JD29693R-8, 11, 15, 17, 21, 22 **Change:**
Please relog/retrieve for BR8270SPLPSIM2MNAP

Dept:

TAT: 3

==========

==========

Sample #: JD29693R-2, 3, 15, 16, 19 **Change:**
Please relog/retrieve for ESB, EBE, ECU, ENI, ETL, EVA, EZN,

Dept:

TAT: 3

==========

==========

Sample #: JD29693R- **Change:**

Dept:

TAT:

==========

Above Changes Per: Garry Glenon **Date/Time:** 10/11/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

5.1 5

JD29693RT: Chain of Custody
Page 6 of 8

Job Change Order: JD29693

Requested Date:	10/11/2021	**Received Date:**	8/10/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	10/11/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	3

==========

Sample #: JD29693-1 thru 13, and 15 thru 22

Change:

Please relog/retrieve for BR8270SIM2MNAP

Dept:

TAT: 3

==========

Above Changes Per: Gary Glennon **Date/Time:** 10/11/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

5.1 5

JD29693RT: Chain of Custody

Page 7 of 8

Job Change Order: JD29693

Requested Date:	10/13/2021	**Received Date:**	8/10/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	10/13/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	7

==========

Sample #:	JD29693-1 thru 13 and 15 thru 22	**Change:**	
Dept:			Relog/retrieve for PR8081HEXCBNZ
TAT:	7		

==========

Above Changes Per: Garry Glennon **Date/Time:** 10/13/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

5.1 5

JD29693RT: Chain of Custody

Page 8 of 8

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **SGS North America Inc.** **Client:** **Nobis Engineering, Inc.**

Project Location: **43 Hempstead Street, New London, CT** **Project Number:** **93203.15 / 1000**

Sampling Date(s): **8/9/2021**

Laboratory Sample ID(s): JD29693-2RT, JD29693-3RT, JD29693-8RT, JD29693-11RT, JD29693-15RT, JD29693-16RT, JD29693-17RT, JD29693-19RT, JD29693-21RT, JD29693-22RT

Methods: EPA 160.3 M, SW846 8270E BY SIM

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

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

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

Authorized Signature: Position: General Manager

Printed Name: Mike Earp Date: 10/27/2021

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD29693RT

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29693-8RT FD-01	Collected: 09-AUG-21 16:00 By: AE		Received: 10-AUG-21 By: MK			
JD29693-8RT	SW846 8270E BY SIM	09-SEP-21 14:46	KLS	08-SEP-21	NT	BR8270SPLPSIM2MNAP
JD29693-11RT MW-6-0305	Collected: 09-AUG-21 12:15 By: AE		Received: 10-AUG-21 By: MK			
JD29693-11RT	SW846 8270E BY SIM	09-SEP-21 15:07	KLS	08-SEP-21	NT	BR8270SPLPSIM2MNAP
JD29693-15RT MW-4-0002	Collected: 10-AUG-21 09:15 By: AE		Received: 10-AUG-21 By: MK			
JD29693-15RT	SW846 8270E BY SIM	09-SEP-21 15:28	KLS	08-SEP-21	NT	BR8270SPLPSIM2MNAP
JD29693-17RT MW-1R-0002	Collected: 10-AUG-21 11:00 By: AE		Received: 10-AUG-21 By: MK			
JD29693-17RT	SW846 8270E BY SIM	09-SEP-21 15:48	KLS	08-SEP-21	NT	BR8270SPLPSIM2MNAP
JD29693-21RT B-3-0002	Collected: 10-AUG-21 13:25 By: AE		Received: 10-AUG-21 By: MK			
JD29693-21RT	SW846 8270E BY SIM	09-SEP-21 16:09	KLS	08-SEP-21	NT	BR8270SPLPSIM2MNAP
JD29693-22RT B-3-0305	Collected: 10-AUG-21 13:30 By: AE		Received: 10-AUG-21 By: MK			
JD29693-22RT	SW846 8270E BY SIM	09-SEP-21 16:29	KLS	08-SEP-21	NT	BR8270SPLPSIM2MNAP

QC Evaluation: CT RCP Limits

Job Number: JD29693RT
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No CT RCP Limits Found.

* Sample used for QC is not from job JD29693RT

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD29693RT
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35296-MB1	4M102227A.D	1	09/09/21	CS	09/08/21	OP35296	E4M4768

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-8RT, JD29693-11RT, JD29693-15RT, JD29693-17RT, JD29693-21RT, JD29693-22RT

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	ND	0.10	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	78%	18-119%
321-60-8	2-Fluorobiphenyl	66%	18-104%
1718-51-0	Terphenyl-d14	63%	13-109%

Leachate Blank Summary

Job Number: JD29693RT
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35296-LB19	4M102228.D	1	09/09/21	CS	09/08/21	OP35296	E4M4768

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-8RT, JD29693-11RT, JD29693-15RT, JD29693-17RT, JD29693-21RT, JD29693-22RT

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	ND	0.10	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	64%	18-119%
321-60-8	2-Fluorobiphenyl	54%	18-104%
1718-51-0	Terphenyl-d14	63%	13-109%

Blank Spike Summary

Job Number: JD29693RT
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35296-BS12	4M102229.D	1	09/09/21	CS	09/08/21	OP35296	E4M4768

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-8RT, JD29693-11RT, JD29693-15RT, JD29693-17RT, JD29693-21RT, JD29693-22RT

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
91-57-6	2-Methylnaphthalene	1	0.783	78	13-127

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	83%	18-119%
321-60-8	2-Fluorobiphenyl	67%	18-104%
1718-51-0	Terphenyl-d14	63%	13-109%

* = Outside of Control Limits.

Leachate Spike Summary

Job Number: JD29693RT
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35296-LS19	4M102262.D	1	09/09/21	KLS	09/08/21	OP35296	E4M4769
JD29693-15R	4M102258.D	1	09/09/21	KLS	09/08/21	OP35296	E4M4769

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-8RT, JD29693-11RT, JD29693-15RT, JD29693-17RT, JD29693-21RT, JD29693-22RT

CAS No.	Compound	JD29693-15R ug/l	Q	Spike ug/l	LS ug/l	LS %	Limits
91-57-6	2-Methylnaphthalene	0.410		1	1.11	70	18-117

CAS No.	Surrogate Recoveries	LS	JD29693-15R	Limits
4165-60-0	Nitrobenzene-d5	72%	76%	18-119%
321-60-8	2-Fluorobiphenyl	58%	63%	18-104%
1718-51-0	Terphenyl-d14	68%	72%	13-109%

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD29693RT
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	E4M4768-CC4755	**Injection Date:**	09/09/21
Lab File ID:	4M102223.D	**Injection Time:**	02:16
Instrument ID:	GCMS4M	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	42742	6.59	53954	8.04	100551	10.14	67367	12.78
Upper Limit [a]	85484	7.09	107908	8.54	201102	10.64	134734	13.28
Lower Limit [b]	21371	6.09	26977	7.54	50276	9.64	33684	12.28

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP35281A-MB1	49049	6.59	58674	8.04	109790	10.14	70818	12.78
OP35281A-BS12	47347	6.59	59334	8.04	109345	10.14	72826	12.78
OP35281A-BSD12	49112	6.59	62330	8.04	116090	10.14	76520	12.78
OP35296-MB1	48222	6.59	60597	8.04	113920	10.14	76623	12.78
OP35296-LB19	49089	6.59	61501	8.04	115462	10.14	73998	12.78
OP35296-BS12	48364	6.59	60821	8.04	111348	10.14	73799	12.78
ZZZZZZ	50109	6.59	61481	8.04	114249	10.14	74001	12.78
ZZZZZZ	47502	6.59	59249	8.04	110210	10.14	71226	12.78
ZZZZZZ	45271	6.59	58358	8.04	110238	10.14	71393	12.78
ZZZZZZ	45617	6.59	58331	8.04	113161	10.14	76985	12.78
ZZZZZZ	47043	6.59	58739	8.04	112354	10.14	72565	12.78
ZZZZZZ	48143	6.59	59075	8.04	111773	10.14	73040	12.78
ZZZZZZ	50180	6.59	61260	8.04	107986	10.14	68156	12.78
ZZZZZZ	46823	6.59	57131	8.05	104169	10.15	68867	12.80
ZZZZZZ	48032	6.59	57919	8.04	103392	10.14	66497	12.79
ZZZZZZ	48718	6.59	59223	8.04	110045	10.15	69466	12.79
ZZZZZZ	44319	6.59	53113	8.04	96376	10.15	64778	12.79
ZZZZZZ	45458	6.59	56989	8.04	104898	10.14	68658	12.80
ZZZZZZ	42714	6.59	53528	8.04	99583	10.14	66133	12.79

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD29693RT
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	E4M4769-CC4755	**Injection Date:**	09/09/21
Lab File ID:	4M102255.D	**Injection Time:**	14:19
Instrument ID:	GCMS4M	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	51248	6.59	64465	8.04	116332	10.14	71715	12.78
Upper Limit [a]	102496	7.09	128930	8.54	232664	10.64	143430	13.28
Lower Limit [b]	25624	6.09	32233	7.54	58166	9.64	35858	12.28

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
ZZZZZZ	53768	6.59	67394	8.04	120443	10.14	72909	12.78
JD29693-8RT	53768	6.59	67394	8.04	120443	10.14	72909	12.78
ZZZZZZ	49233	6.59	61571	8.04	113005	10.14	76369	12.78
JD29693-11RT	49233	6.59	61571	8.04	113005	10.14	76369	12.78
JD29693-15R	50712	6.59	60362	8.04	104846	10.14	70748	12.78
JD29693-15RT	50712	6.59	60362	8.04	104846	10.14	70748	12.78
ZZZZZZ	50299	6.59	61544	8.04	110680	10.14	74770	12.78
JD29693-17RT	50299	6.59	61544	8.04	110680	10.14	74770	12.78
ZZZZZZ	52960	6.59	64444	8.04	114690	10.14	74480	12.78
JD29693-21RT	52960	6.59	64444	8.04	114690	10.14	74480	12.78
ZZZZZZ	55027	6.59	63158	8.04	113292	10.14	70917	12.78
JD29693-22RT	55027	6.59	63158	8.04	113292	10.14	70917	12.78
OP35296-MS	50422	6.59	63129	8.04	108561	10.14	69111	12.78
OP35296-LS19	50422	6.59	63129	8.04	108561	10.14	69111	12.78
OP35296-MSD	47831	6.59	61551	8.04	113306	10.14	76971	12.78
ZZZZZZ	48252	6.59	57962	8.04	103886	10.14	70456	12.78
ZZZZZZ	45666	6.59	57366	8.04	107195	10.14	72411	12.78
ZZZZZZ	50346	6.59	61387	8.04	108485	10.14	70783	12.78

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD29693RT
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: SW846 8270E BY SIM **Matrix:** LEACHATE

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JD29693-8RT	4M102256.D	48	32	100	80	67	63
JD29693-11RT	4M102257.D	41	28	92	73	62	59
JD29693-15RT	4M102258.D	49	32	92	76	63	72
JD29693-17RT	4M102259.D	33	22	87	65	55	68
JD29693-21RT	4M102260.D	49	32	91	78	62	70
JD29693-22RT	4M102261.D	28	19	90	58	48	68
OP35296-BS12	4M102229.D				83	67	63
OP35296-LB19	4M102228.D				64	54	63
OP35296-LS19	4M102262.D				72	58	68
OP35296-MB1	4M102227A.D				78	66	63

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	12-75%
S2 = Phenol-d5	14-59%
S3 = 2,4,6-Tribromophenol	19-157%
S4 = Nitrobenzene-d5	18-119%
S5 = 2-Fluorobiphenyl	18-104%
S6 = Terphenyl-d14	13-109%

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Nobis Engineering, Inc.

43 Hempstead Street, New London, CT

93203.15 PO#93203.15/200

SGS Job Number: JD29693T

Sampling Dates: 08/09/21 - 08/10/21

Report to:

Nobis Engineering, Inc.
585 Middlesex Street
Lowell, MA 01851
jbrunelle@nobis-group.com; ARoy@nobis-group.com;
gglennon@nobis-group.com
ATTN: Jeff Brunelle

Total number of pages in report: **54**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

SGS is the sole authority for authorizing edits or modifications to this document.
Unauthorized modification of this report is strictly prohibited.
Review standard terms at: http://www.sgs.com/en/terms-and-conditions
Please share your ideas about
how we can serve you better at:
EHS.US.CustomerCare@sgs.com

Table of Contents

-1-

Section 1: Sample Summary **3**
Section 2: Case Narrative/Conformance Summary **5**
Section 3: Summary of Hits **6**
Section 4: Sample Results **8**
4.1: JD29693-1T: B-10-0002 9
4.2: JD29693-2T: B-10-0204 10
4.3: JD29693-3T: B-7-0002 11
4.4: JD29693-4T: B-7-0507 12
4.5: JD29693-5T: B-9-0002 13
4.6: JD29693-6T: B-9-0305 14
4.7: JD29693-7T: B-8-0002 15
4.8: JD29693-8T: FD-01 16
4.9: JD29693-9T: B-8-0507 17
4.10: JD29693-10T: MW-6-0002 18
4.11: JD29693-11T: MW-6-0305 19
4.12: JD29693-12T: MW-5-0002 20
4.13: JD29693-13T: MW-05-0810 21
4.14: JD29693-15T: MW-4-0002 22
4.15: JD29693-16T: MW-4-0204 23
4.16: JD29693-17T: MW-1R-0002 24
4.17: JD29693-18T: MW-1R-0406 25
4.18: JD29693-19T: B-2-0002 26
4.19: JD29693-20T: B-2-0507 27
4.20: JD29693-21T: B-3-0002 28
4.21: JD29693-22T: B-3-0305 29
Section 5: Misc. Forms **30**
5.1: Chain of Custody 31
5.2: RCP Form 39
5.3: Sample Tracking Chronicle 40
5.4: QC Evaluation: CT RCP Limits 43
Section 6: MS Semi-volatiles - QC Data Summaries **45**
6.1: Method Blank Summary 46
6.2: Blank Spike Summary 48
6.3: Internal Standard Area Summaries 50
6.4: Surrogate Recovery Summaries 54

SGS North America Inc.

Sample Summary

Nobis Engineering, Inc.

Job No: JD29693T

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the RL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD29693-1T	08/09/21	09:15	AE	08/10/21	SO	Soil	B-10-0002
JD29693-2T	08/09/21	09:20	AE	08/10/21	SO	Soil	B-10-0204
JD29693-3T	08/09/21	09:45	AE	08/10/21	SO	Soil	B-7-0002
JD29693-4T	08/09/21	09:50	AE	08/10/21	SO	Soil	B-7-0507
JD29693-5T	08/09/21	10:05	AE	08/10/21	SO	Soil	B-9-0002
JD29693-6T	08/09/21	10:10	AE	08/10/21	SO	Soil	B-9-0305
JD29693-7T	08/09/21	10:20	AE	08/10/21	SO	Soil	B-8-0002
JD29693-8T	08/09/21	16:00	AE	08/10/21	SO	Soil	FD-01
JD29693-9T	08/09/21	10:25	AE	08/10/21	SO	Soil	B-8-0507
JD29693-10T	08/09/21	12:10	AE	08/10/21	SO	Soil	MW-6-0002
JD29693-11T	08/09/21	12:15	AE	08/10/21	SO	Soil	MW-6-0305
JD29693-12T	08/09/21	13:30	AE	08/10/21	SO	Soil	MW-5-0002

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SGS North America Inc.

Sample Summary
(continued)

Nobis Engineering, Inc.

Job No: JD29693T

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD29693-13T	08/09/21	13:40	AE	08/10/21	SO	Soil	MW-05-0810
JD29693-15T	08/10/21	09:15	AE	08/10/21	SO	Soil	MW-4-0002
JD29693-16T	08/10/21	09:25	AE	08/10/21	SO	Soil	MW-4-0204
JD29693-17T	08/10/21	11:00	AE	08/10/21	SO	Soil	MW-1R-0002
JD29693-18T	08/10/21	11:05	AE	08/10/21	SO	Soil	MW-1R-0406
JD29693-19DT	08/10/21	13:05	AE	08/10/21	SO	Soil Dup/MSD	B-2-0002
JD29693-19ST	08/10/21	13:05	AE	08/10/21	SO	Soil Matrix Spike	B-2-0002
JD29693-19T	08/10/21	13:05	AE	08/10/21	SO	Soil	B-2-0002
JD29693-20T	08/10/21	12:55	AE	08/10/21	SO	Soil	B-2-0507
JD29693-21T	08/10/21	13:25	AE	08/10/21	SO	Soil	B-3-0002
JD29693-22T	08/10/21	13:30	AE	08/10/21	SO	Soil	B-3-0305

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Nobis Engineering, Inc.	**Job No**	JD29693T
Site:	43 Hempstead Street, New London, CT	**Report Date**	10/14/2021 9:01:20 A

On 08/10/2021, 21 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.7 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD29693T was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: SO **Batch ID:** OP34845A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Only report 2-Methylnaphthalene.

Matrix: SO **Batch ID:** OP34846A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Only report 2-Methylnaphthalene.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD29693T
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD29693-1T	**B-10-0002**					
2-Methylnaphthalene		0.0733	0.020		mg/kg	SW846 8270E BY SIM
JD29693-2T	**B-10-0204**					
2-Methylnaphthalene		0.00900	0.0036		mg/kg	SW846 8270E BY SIM
JD29693-3T	**B-7-0002**					
2-Methylnaphthalene		0.0136	0.0038		mg/kg	SW846 8270E BY SIM
JD29693-4T	**B-7-0507**					
No hits reported in this sample.						
JD29693-5T	**B-9-0002**					
No hits reported in this sample.						
JD29693-6T	**B-9-0305**					
No hits reported in this sample.						
JD29693-7T	**B-8-0002**					
2-Methylnaphthalene		0.0141	0.0041		mg/kg	SW846 8270E BY SIM
JD29693-8T	**FD-01**					
2-Methylnaphthalene		0.0295	0.0041		mg/kg	SW846 8270E BY SIM
JD29693-9T	**B-8-0507**					
No hits reported in this sample.						
JD29693-10T	**MW-6-0002**					
2-Methylnaphthalene		0.585	0.015		mg/kg	SW846 8270E BY SIM
JD29693-11T	**MW-6-0305**					
2-Methylnaphthalene		0.510	0.039		mg/kg	SW846 8270E BY SIM

Summary of Hits

Job Number: JD29693T
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD29693-12T	**MW-5-0002**					
No hits reported in this sample.						
JD29693-13T	**MW-05-0810**					
No hits reported in this sample.						
JD29693-15T	**MW-4-0002**					
2-Methylnaphthalene		0.0989	0.0073		mg/kg	SW846 8270E BY SIM
JD29693-16T	**MW-4-0204**					
2-Methylnaphthalene		0.00562	0.0045		mg/kg	SW846 8270E BY SIM
JD29693-17T	**MW-1R-0002**					
2-Methylnaphthalene		0.115	0.0070		mg/kg	SW846 8270E BY SIM
JD29693-18T	**MW-1R-0406**					
2-Methylnaphthalene		0.0470	0.0036		mg/kg	SW846 8270E BY SIM
JD29693-19T	**B-2-0002**					
2-Methylnaphthalene		0.0354	0.0038		mg/kg	SW846 8270E BY SIM
JD29693-20T	**B-2-0507**					
No hits reported in this sample.						
JD29693-21T	**B-3-0002**					
2-Methylnaphthalene		0.0571	0.0069		mg/kg	SW846 8270E BY SIM
JD29693-22T	**B-3-0305**					
2-Methylnaphthalene		0.0262	0.0037		mg/kg	SW846 8270E BY SIM

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	B-10-0002		
Lab Sample ID:	JD29693-1T	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	86.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101732.D	1	08/17/21 08:08	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2							

	Initial Weight	Final Volume
Run #1	5.8 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	0.0733	0.020	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		39-90%
321-60-8	2-Fluorobiphenyl	72%		35-84%
1718-51-0	Terphenyl-d14	73%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-10-0204		
Lab Sample ID:	JD29693-2T	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	91.6
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101726.D	1	08/17/21 05:55	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2							

	Initial Weight	Final Volume
Run #1	30.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	0.00900	0.0036	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%		39-90%
321-60-8	2-Fluorobiphenyl	59%		35-84%
1718-51-0	Terphenyl-d14	63%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-7-0002		
Lab Sample ID:	JD29693-3T	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	88.8
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101728.D	1	08/17/21 06:39	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	0.0136	0.0038	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	59%		39-90%
321-60-8	2-Fluorobiphenyl	58%		35-84%
1718-51-0	Terphenyl-d14	59%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-7-0507		
Lab Sample ID:	JD29693-4T	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	79.4
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101722.D	1	08/17/21 04:29	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	ND	0.0042	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	73%		39-90%
321-60-8	2-Fluorobiphenyl	71%		35-84%
1718-51-0	Terphenyl-d14	73%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-9-0002		
Lab Sample ID:	JD29693-5T	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	87.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101725.D	1	08/17/21 05:34	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	ND	0.0038	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	53%		39-90%
321-60-8	2-Fluorobiphenyl	52%		35-84%
1718-51-0	Terphenyl-d14	54%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-9-0305		
Lab Sample ID:	JD29693-6T	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	93.4
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101729.D	1	08/17/21 07:01	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	ND	0.0035	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		39-90%
321-60-8	2-Fluorobiphenyl	63%		35-84%
1718-51-0	Terphenyl-d14	63%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-8-0002		
Lab Sample ID:	JD29693-7T	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	80.6
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101733.D	1	08/17/21 08:30	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	0.0141	0.0041	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	60%		39-90%
321-60-8	2-Fluorobiphenyl	60%		35-84%
1718-51-0	Terphenyl-d14	61%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD29693-8T	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	82.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101734.D	1	08/17/21 08:52	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	0.0295	0.0041	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		39-90%
321-60-8	2-Fluorobiphenyl	68%		35-84%
1718-51-0	Terphenyl-d14	62%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-8-0507		
Lab Sample ID:	JD29693-9T	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	80.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101721.D	1	08/17/21 04:08	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2							

	Initial Weight	Final Volume
Run #1	31.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	ND	0.0040	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	59%		39-90%
321-60-8	2-Fluorobiphenyl	58%		35-84%
1718-51-0	Terphenyl-d14	59%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-0002		
Lab Sample ID:	JD29693-10T	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	90.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101736.D	2	08/17/21 09:36	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2	4M101752.D	4	08/17/21 18:00	KLS	08/11/21 15:28	OP34845A	E4M4742

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2	30.4 g	1.0 ml

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	0.585 [a]	0.015	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%	67%	39-90%
321-60-8	2-Fluorobiphenyl	64%	67%	35-84%
1718-51-0	Terphenyl-d14	63%	66%	42-95%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-0305		
Lab Sample ID:	JD29693-11T	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	85.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101727.D	1	08/17/21 06:17	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2	4M101750.D	10	08/17/21 17:14	KLS	08/11/21 15:28	OP34845A	E4M4742

	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2	30.3 g	1.0 ml

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	0.510 [a]	0.039	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	64%	74%	39-90%
321-60-8	2-Fluorobiphenyl	60%	80%	35-84%
1718-51-0	Terphenyl-d14	55%	75%	42-95%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5-0002		
Lab Sample ID:	JD29693-12T	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	94.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101724.D	1	08/17/21 05:12	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	ND	0.0035	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		39-90%
321-60-8	2-Fluorobiphenyl	64%		35-84%
1718-51-0	Terphenyl-d14	67%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-05-0810		
Lab Sample ID:	JD29693-13T	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	84.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101723.D	1	08/17/21 04:50	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2							

	Initial Weight	Final Volume
Run #1	31.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	ND	0.0038	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		39-90%
321-60-8	2-Fluorobiphenyl	76%		35-84%
1718-51-0	Terphenyl-d14	81%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4-0002		
Lab Sample ID:	JD29693-15T	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3546	**Percent Solids:**	89.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101735.D	2	08/17/21 09:14	CS	08/11/21 15:28	OP34845A	E4M4741
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	0.0989	0.0073	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	66%		39-90%
321-60-8	2-Fluorobiphenyl	67%		35-84%
1718-51-0	Terphenyl-d14	62%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4-0204		
Lab Sample ID:	JD29693-16T	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	70.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101778.D	1	08/19/21 07:24	CS	08/17/21 16:30	OP34846A	E4M4744
Run #2							

	Initial Weight	Final Volume
Run #1	31.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	0.00562	0.0045	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%		39-90%
321-60-8	2-Fluorobiphenyl	58%		35-84%
1718-51-0	Terphenyl-d14	62%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R-0002		
Lab Sample ID:	JD29693-17T	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	91.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101784.D	2	08/19/21 10:02	CS	08/17/21 16:30	OP34846A	E4M4744
Run #2							

	Initial Weight	Final Volume
Run #1	31.3 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	0.115	0.0070	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	54%		39-90%
321-60-8	2-Fluorobiphenyl	53%		35-84%
1718-51-0	Terphenyl-d14	56%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R-0406		
Lab Sample ID:	JD29693-18T	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	86.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101780.D	1	08/19/21 08:09	CS	08/17/21 16:30	OP34846A	E4M4744
Run #2							

	Initial Weight	Final Volume
Run #1	31.8 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	0.0470	0.0036	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	47%		39-90%
321-60-8	2-Fluorobiphenyl	53%		35-84%
1718-51-0	Terphenyl-d14	52%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-2-0002		
Lab Sample ID:	JD29693-19T	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	84.8
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101783A.D	1	08/19/21 09:40	CS	08/17/21 16:30	OP34846A	E4M4744
Run #2							

	Initial Weight	Final Volume
Run #1	31.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	0.0354	0.0038	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	55%		39-90%
321-60-8	2-Fluorobiphenyl	53%		35-84%
1718-51-0	Terphenyl-d14	50%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-2-0507		
Lab Sample ID:	JD29693-20T	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	81.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101777.D	1	08/19/21 07:02	CS	08/17/21 16:30	OP34846A	E4M4744
Run #2							

	Initial Weight	Final Volume
Run #1	31.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	ND	0.0039	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	63%		39-90%
321-60-8	2-Fluorobiphenyl	61%		35-84%
1718-51-0	Terphenyl-d14	65%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0002		
Lab Sample ID:	JD29693-21T	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	91.3
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101785.D	2	08/19/21 10:24	CS	08/17/21 16:30	OP34846A	E4M4744
Run #2							

	Initial Weight	Final Volume
Run #1	31.8 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	0.0571	0.0069	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	68%		39-90%
321-60-8	2-Fluorobiphenyl	67%		35-84%
1718-51-0	Terphenyl-d14	67%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0305		
Lab Sample ID:	JD29693-22T	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	87.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M101779.D	1	08/19/21 07:47	CS	08/17/21 16:30	OP34846A	E4M4744
Run #2							

	Initial Weight	Final Volume
Run #1	30.8 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	0.0262	0.0037	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	55%		39-90%
321-60-8	2-Fluorobiphenyl	51%		35-84%
1718-51-0	Terphenyl-d14	52%		42-95%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

SO
SLL

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-02-FORM-Standard COC

FED-EX Tracking #:
Bottle Order Control #: JD29693
SGS Quote #: TF-68321-148
SGS Job #: NEIMAL89598

Client / Reporting Information

Company Name: Nobis
Street Address: 585 Middlesex St
City / State / Zip: Lowell MA 01851
Project Contact / E-mail: Jeff Brunelle JBrunelle@nobisgroup.com
Phone #: 603-508-0084
Sampler(s) Name(s) / Phone #: A Epstein

Project Information

Project Name: 43 Hempstead St New London CT
Street: 43 Hempstead
City / State: New London CT
Project #: 93203.15
Client Purchase Order #: 93203.15/208
Project Manager: Jeff Brunelle

Billing Information (If different from Report to)

Company Name: Same
Street Address:
City / State / Zip:
Attention:

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	VOCs	ETPH	PAH SIM	Pesticides	PCBs Soxhlet	RCP metals + Hg	LAB USE ONLY
1	B-10-0002		8/9/21	915	AE	G	S	5					2	2	1		X	X	X	X	X	X	P51
2	B-10-0304			920													X	X	X	X	X	X	1414
3	B-7-0002			945													X	X	X	X	X	X	4012
4	B-7-0507			950													X	X	X	X	X	X	4013
5	B-9-0002			1005													X	X	X	X	X	X	D45
6	B-9-0305			1010													X	X	X	X	X	X	
7	B-8-0002			1026													X	X	X	X	X	X	
8	FD-01			1600													X	X	X	X	X	X	
9	B-8-0507			1025													X	X	X	X	X	X	
10	MW-6-0002			1210													X	X	X	X	X	X	
11	MW-6-0305			1215													X	X	X	X	X	X	
12	MW-5-0002			1330													X	X	X	X	X	X	

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [x] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special instructions

Hold remaining soil for potential SPLP ETPH, SPLP PAH, SPLP metals

SGS-ACCUTEST MARLBOR 8/10

http://www.sgs.com/en/terms-and-condition

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by	Date / Time	Received By	Relinquished By	Date / Time	Received By
1 MCS	8/10/21 14:55	1 [signature]	2 [signature]	8/10/21 15:00	2 Fed Ex
3 Fedex	8-11-21 8:03	3 [signature]	4		4
5		5			

Custody Seal # 17403, 15404, 15 905 — Intact / Not Intact — Preserved where applicable / Absent — Therm. ID: — On Ice — Cooler Temp. °C 3.4°C

JD29693T: Chain of Custody
Page 1 of 8

CHAIN OF CUSTODY

SGS

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-02-FORM-Standard COC

FED-EX Tracking #:
Bottle Order Control #: JD29693
SGS Quote #:
SGS Job #:

Client / Reporting Information

Company Name: NODIS
Street Address: 565 Middlesex St
City: Lowell State: MA Zip: 01851
Project Contact: Jeff Brunelle E-mail: JBrunelle@nodis-group.com
Phone #: 603-505-0084
Sampler(s) Name(s): AEPsin Phone #:

Project Information

Project Name: 43 Hempstead St New London CT
Street: 43 Hempstead
City: New London State: CT
Project #: 93203.15
Client Purchase Order #: 93203.15 / 206
Project Manager: Jeff Brunelle

Billing Information (If different from Report to)
Company Name: Same
Street Address:
City: State: Zip:
Attention:

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	VOCs	ETPH	PAH SIM	Pesticides	PCB Soxhlet	RCP Metals + Hg						LAB USE ONLY
13	MW-05-0810		8/9/21	1340	AE	G	S	5					2	2	1		X	X	X	X	X	X						
14	TB-01			1605				3						2	1		X											
15	MW-4-0002		8/10/21	915				5					2	2	1		X	X	X	X	X	X						
16	MW-4-0204			925													X	X	X	X	X	X						
17	MW-1R-0002			1100													X	X	X	X	X	X						
18	MW-1R-0406			1105													X	X	X	X	X	X						
19	B-2-0002			1305				15					6	6	3		X	X	X	X	X	X						
20	B-2-0507			1255				5					2	2	1		X	X	X	X	X	X						
21	B-3-0002			1325				5									X	X	X	X	X	X						
22	B-3-0305			1330				5									X	X	X	X	X	X						

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink. * Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Hold remaining soil for potential SPLP ETPH, SPLP PAH, SPLP Metals
B-2-0002 MS/MSD

SGS-ACCUTEST MARLBOR 8/10

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	8/10/21	1	2	8/10/21 1820	2
Relinquished by: 3	Date / Time: 8/11/21 9:05	Received By: 3	Relinquished By: 4	Date / Time:	Received By: 4
Relinquished by: 5	Date / Time:	Received By: 5	Custody Seal #	[ ] Intact [ ] Not intact	Preserved where applicable [ ] Absent

On Ice: Cooler Temp. °C: Therm. ID:

5.1 5

JD29693T: Chain of Custody
Page 2 of 8

SGS Sample Receipt Summary

Job Number: JD29693 **Client:** NOBIS ENGINEERING, INC. **Project:** SO: 43 HEMPSTEAD STREET, NEW LONDON,

Date / Time Received: 8/10/2021 6:00:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 2: (3.7); Cooler 3: (2.8);

Cooler Temps (Corrected) °C: Cooler 2: (3.7); Cooler 3: (2.8);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD29693T: Chain of Custody
Page 3 of 8

Job Change Order: JD29693

Requested Date:	9/2/2021	**Received Date:**	8/10/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	9/2/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	7

==========

Sample #: JD29693-1 and 7
Dept:
TAT: 7
Change:
Relog for BCTTPHSPLP, SPLPE, SPLPRATIO. (Okay to proceed out c hold)

==========
==========

Sample #: JD29693-11, 21 and 22
Dept:
TAT: 7
Change:
Relog for BCTTPHSPLP, B8270SPLPSIMPAH, SPLPE, SPLPRATIO (to proceed out of hold)

==========
==========

Sample #: JD29693-19
Dept:
TAT: 7
Change:
Relog for BCTTPHSPLP, SPLPM, SPLPE, SPLPRATIO (Okay to proce out of hold)

B-2-0002

==========
==========

Sample #: JD29693-8 and 17
Dept:
TAT: 7
Change:
Relog for B8270SPLPSIMPAH, SPLPE, SPLPRATIO (Okay to proceec of hold)

==========

Above Changes Per: Jeffrey Brunelle **Date/Time:** 9/2/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Job Change Order: JD29693

Requested Date:	9/2/2021	**Received Date:**	8/10/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	9/2/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	7

==========

Sample #: JD29693-2, 3, and 16

Dept:

TAT: 7

Change:
Relog for SPLPM, SPLPE, SPLPRATIO (Okay to proceed out of hold)

==========

==========

Sample #: JD29693-15

Dept:

TAT: 7

MW-4-0002

Change:
Relog for B8270SPLPSIMPAH, SPLPM, SPLPE, SPLPRATIO (Okay to proceed out of hold)

==========

Above Changes Per: Jeffrey Brunelle **Date/Time:** 9/2/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Job Change Order: JD29693R

Requested Date:	10/11/2021	**Received Date:**	8/10/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	10/11/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	3

==========

Sample #: JD29693R-8, 11, 15, 17, 21, 22 **Change:**
Please relog/retrieve for BR8270SPLPSIM2MNAP

Dept:

TAT: 3

==========

==========

Sample #: JD29693R-2, 3, 15, 16, 19 **Change:**
Please relog/retrieve for ESB, EBE, ECU, ENI, ETL, EVA, EZN,

Dept:

TAT: 3

==========

==========

Sample #: JD29693R- **Change:**

Dept:

TAT:

==========

Above Changes Per: Garry Glenon **Date/Time:** 10/11/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

JD29693T: Chain of Custody
Page 6 of 8

Job Change Order: JD29693

Requested Date:	10/11/2021	**Received Date:**	8/10/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	10/11/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	3

==========

Sample #: JD29693-1 thru 13, and 15 thru 22

Change:

Please relog/retrieve for BR8270SIM2MNAP

Dept:

TAT: 3

==========

Above Changes Per: Gary Glennon **Date/Time:** 10/11/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

5.1 5

JD29693T: Chain of Custody

Page 7 of 8

Job Change Order: JD29693

Requested Date:	10/13/2021	**Received Date:**	8/10/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	10/13/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	7

==========

Sample #:	JD29693-1 thru 13 and 15 thru 22	**Change:**	
Dept:			Relog/retrieve for PR8081HEXCBNZ
TAT:	7		

==========

Above Changes Per: Garry Glennon **Date/Time:** 10/13/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

JD29693T: Chain of Custody

Page 8 of 8

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **SGS North America Inc.** **Client:** **Nobis Engineering, Inc.**

Project Location: **43 Hempstead Street, New London, CT** **Project Number:** **93203.15 / 1000**

Sampling Date(s): **8/9/2021**

Laboratory Sample ID(s): JD29693-1T, JD29693-2T, JD29693-3T, JD29693-4T, JD29693-5T, JD29693-6T, JD29693-7T, JD29693-8T, JD29693-9T, JD29693-10T, JD29693-11T, JD29693-12T, JD29693-13T, JD29693-15T, JD29693-16T, JD29693-17T, JD29693-18T, JD29693-19T, JD29693-19DT, JD29693-19ST, JD29693-20T, JD29693-21T, JD29693-22T

Methods: EPA 160.3 M, SW846 8270E BY SIM

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

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

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

Authorized Signature: Position: General Manager

Printed Name: Mike Earp Date: 10/14/2021

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD29693T

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29693-1T	Collected: 09-AUG-21 09:15 By: AE B-10-0002		Received: 10-AUG-21 By: MK			
JD29693-1T	SW846 8270E BY SIM	17-AUG-21 08:08	CS	11-AUG-21	NT	BR8270SIM2MNAP
JD29693-2T	Collected: 09-AUG-21 09:20 By: AE B-10-0204		Received: 10-AUG-21 By: MK			
JD29693-2T	SW846 8270E BY SIM	17-AUG-21 05:55	CS	11-AUG-21	NT	BR8270SIM2MNAP
JD29693-3T	Collected: 09-AUG-21 09:45 By: AE B-7-0002		Received: 10-AUG-21 By: MK			
JD29693-3T	SW846 8270E BY SIM	17-AUG-21 06:39	CS	11-AUG-21	NT	BR8270SIM2MNAP
JD29693-4T	Collected: 09-AUG-21 09:50 By: AE B-7-0507		Received: 10-AUG-21 By: MK			
JD29693-4T	SW846 8270E BY SIM	17-AUG-21 04:29	CS	11-AUG-21	NT	BR8270SIM2MNAP
JD29693-5T	Collected: 09-AUG-21 10:05 By: AE B-9-0002		Received: 10-AUG-21 By: MK			
JD29693-5T	SW846 8270E BY SIM	17-AUG-21 05:34	CS	11-AUG-21	NT	BR8270SIM2MNAP
JD29693-6T	Collected: 09-AUG-21 10:10 By: AE B-9-0305		Received: 10-AUG-21 By: MK			
JD29693-6T	SW846 8270E BY SIM	17-AUG-21 07:01	CS	11-AUG-21	NT	BR8270SIM2MNAP
JD29693-7T	Collected: 09-AUG-21 10:20 By: AE B-8-0002		Received: 10-AUG-21 By: MK			
JD29693-7T	SW846 8270E BY SIM	17-AUG-21 08:30	CS	11-AUG-21	NT	BR8270SIM2MNAP
JD29693-8T	Collected: 09-AUG-21 16:00 By: AE FD-01		Received: 10-AUG-21 By: MK			
JD29693-8T	SW846 8270E BY SIM	17-AUG-21 08:52	CS	11-AUG-21	NT	BR8270SIM2MNAP

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD29693T

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29693-9T	Collected: 09-AUG-21 10:25 By: AE		Received: 10-AUG-21 By: MK			
B-8-0507						
JD29693-9T	SW846 8270E BY SIM	17-AUG-21 04:08	CS	11-AUG-21	NT	BR8270SIM2MNAP
JD29693-10T	Collected: 09-AUG-21 12:10 By: AE		Received: 10-AUG-21 By: MK			
MW-6-0002						
JD29693-10T	SW846 8270E BY SIM	17-AUG-21 09:36	CS	11-AUG-21		
JD29693-10T	SW846 8270E BY SIM	17-AUG-21 18:00	KLS	11-AUG-21	NT	BR8270SIM2MNAP
JD29693-11T	Collected: 09-AUG-21 12:15 By: AE		Received: 10-AUG-21 By: MK			
MW-6-0305						
JD29693-11T	SW846 8270E BY SIM	17-AUG-21 06:17	CS	11-AUG-21		
JD29693-11T	SW846 8270E BY SIM	17-AUG-21 17:14	KLS	11-AUG-21	NT	BR8270SIM2MNAP
JD29693-12T	Collected: 09-AUG-21 13:30 By: AE		Received: 10-AUG-21 By: MK			
MW-5-0002						
JD29693-12T	SW846 8270E BY SIM	17-AUG-21 05:12	CS	11-AUG-21	NT	BR8270SIM2MNAP
JD29693-13T	Collected: 09-AUG-21 13:40 By: AE		Received: 10-AUG-21 By: MK			
MW-05-0810						
JD29693-13T	SW846 8270E BY SIM	17-AUG-21 04:50	CS	11-AUG-21	NT	BR8270SIM2MNAP
JD29693-15T	Collected: 10-AUG-21 09:15 By: AE		Received: 10-AUG-21 By: MK			
MW-4-0002						
JD29693-15T	SW846 8270E BY SIM	17-AUG-21 09:14	CS	11-AUG-21	NT	BR8270SIM2MNAP
JD29693-16T	Collected: 10-AUG-21 09:25 By: AE		Received: 10-AUG-21 By: MK			
MW-4-0204						
JD29693-16T	SW846 8270E BY SIM	19-AUG-21 07:24	CS	17-AUG-21	KM	BR8270SIM2MNAP

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD29693T

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29693-17 MW-1R-0002	Collected: 10-AUG-21 11:00 By: AE		Received: 10-AUG-21 By: MK			
JD29693-17	SW846 8270E BY SIM	19-AUG-21 10:02	CS	17-AUG-21	KM	BR8270SIM2MNAP
JD29693-18 MW-1R-0406	Collected: 10-AUG-21 11:05 By: AE		Received: 10-AUG-21 By: MK			
JD29693-18	SW846 8270E BY SIM	19-AUG-21 08:09	CS	17-AUG-21	KM	BR8270SIM2MNAP
JD29693-19 B-2-0002	Collected: 10-AUG-21 13:05 By: AE		Received: 10-AUG-21 By: MK			
JD29693-19	SW846 8270E BY SIM	19-AUG-21 09:40	CS	17-AUG-21	KM	BR8270SIM2MNAP
JD29693-20 B-2-0507	Collected: 10-AUG-21 12:55 By: AE		Received: 10-AUG-21 By: MK			
JD29693-20	SW846 8270E BY SIM	19-AUG-21 07:02	CS	17-AUG-21	KM	BR8270SIM2MNAP
JD29693-21 B-3-0002	Collected: 10-AUG-21 13:25 By: AE		Received: 10-AUG-21 By: MK			
JD29693-21	SW846 8270E BY SIM	19-AUG-21 10:24	CS	17-AUG-21	KM	BR8270SIM2MNAP
JD29693-22 B-3-0305	Collected: 10-AUG-21 13:30 By: AE		Received: 10-AUG-21 By: MK			
JD29693-22	SW846 8270E BY SIM	19-AUG-21 07:47	CS	17-AUG-21	KM	BR8270SIM2MNAP

QC Evaluation: CT RCP Limits

Job Number: JD29693T
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP34845A	SW846 8270E BY SIM						
OP34845A-BS12	91-57-6	2-Methylnaphthalene	BSP	REC	73	%	40-140
OP34845A-BS12	4165-60-0	Nitrobenzene-d5	BSP	SURR	76	%	30-130
OP34845A-BS12	321-60-8	2-Fluorobiphenyl	BSP	SURR	76	%	30-130
OP34845A-BS12	1718-51-0	Terphenyl-d14	BSP	SURR	82	%	30-130
OP34845A-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	78	%	30-130
OP34845A-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	75	%	30-130
OP34845A-MB1	1718-51-0	Terphenyl-d14	MB	SURR	82	%	30-130
JD29693-1T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	72	%	30-130
JD29693-1T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	72	%	30-130
JD29693-1T	1718-51-0	Terphenyl-d14	SAMP	SURR	73	%	30-130
JD29693-2T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	61	%	30-130
JD29693-2T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	59	%	30-130
JD29693-2T	1718-51-0	Terphenyl-d14	SAMP	SURR	63	%	30-130
JD29693-3T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	59	%	30-130
JD29693-3T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	58	%	30-130
JD29693-3T	1718-51-0	Terphenyl-d14	SAMP	SURR	59	%	30-130
JD29693-4T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	73	%	30-130
JD29693-4T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	71	%	30-130
JD29693-4T	1718-51-0	Terphenyl-d14	SAMP	SURR	73	%	30-130
JD29693-5T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	53	%	30-130
JD29693-5T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	52	%	30-130
JD29693-5T	1718-51-0	Terphenyl-d14	SAMP	SURR	54	%	30-130
JD29693-6T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	65	%	30-130
JD29693-6T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	63	%	30-130
JD29693-6T	1718-51-0	Terphenyl-d14	SAMP	SURR	63	%	30-130
JD29693-7T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	60	%	30-130
JD29693-7T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	60	%	30-130
JD29693-7T	1718-51-0	Terphenyl-d14	SAMP	SURR	61	%	30-130
JD29693-8T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	71	%	30-130
JD29693-8T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	68	%	30-130
JD29693-8T	1718-51-0	Terphenyl-d14	SAMP	SURR	62	%	30-130
JD29693-9T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	59	%	30-130
JD29693-9T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	58	%	30-130
JD29693-9T	1718-51-0	Terphenyl-d14	SAMP	SURR	59	%	30-130
JD29693-10T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	67	%	30-130
JD29693-10T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	61	%	30-130
JD29693-10T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	64	%	30-130
JD29693-10T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	67	%	30-130
JD29693-10T	1718-51-0	Terphenyl-d14	SAMP	SURR	63	%	30-130
JD29693-10T	1718-51-0	Terphenyl-d14	SAMP	SURR	66	%	30-130
JD29693-11T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	74	%	30-130
JD29693-11T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	64	%	30-130

* Sample used for QC is not from job JD29693T

QC Evaluation: CT RCP Limits

Job Number: JD29693T
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD29693-11T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	60	%	30-130
JD29693-11T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	80	%	30-130
JD29693-11T	1718-51-0	Terphenyl-d14	SAMP	SURR	55	%	30-130
JD29693-11T	1718-51-0	Terphenyl-d14	SAMP	SURR	75	%	30-130
JD29693-12T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	65	%	30-130
JD29693-12T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	64	%	30-130
JD29693-12T	1718-51-0	Terphenyl-d14	SAMP	SURR	67	%	30-130
JD29693-13T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	74	%	30-130
JD29693-13T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	76	%	30-130
JD29693-13T	1718-51-0	Terphenyl-d14	SAMP	SURR	81	%	30-130
JD29693-15T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	66	%	30-130
JD29693-15T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	67	%	30-130
JD29693-15T	1718-51-0	Terphenyl-d14	SAMP	SURR	62	%	30-130
OP34846A	SW846 8270E BY SIM						
OP34846A-BS12	91-57-6	2-Methylnaphthalene	BSP	REC	74	%	40-140
OP34846A-BS12	4165-60-0	Nitrobenzene-d5	BSP	SURR	80	%	30-130
OP34846A-BS12	321-60-8	2-Fluorobiphenyl	BSP	SURR	78	%	30-130
OP34846A-BS12	1718-51-0	Terphenyl-d14	BSP	SURR	83	%	30-130
OP34846A-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	60	%	30-130
OP34846A-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	57	%	30-130
OP34846A-MB1	1718-51-0	Terphenyl-d14	MB	SURR	61	%	30-130
JD29693-16T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	63	%	30-130
JD29693-16T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	58	%	30-130
JD29693-16T	1718-51-0	Terphenyl-d14	SAMP	SURR	62	%	30-130
JD29693-17T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	54	%	30-130
JD29693-17T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	53	%	30-130
JD29693-17T	1718-51-0	Terphenyl-d14	SAMP	SURR	56	%	30-130
JD29693-18T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	47	%	30-130
JD29693-18T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	53	%	30-130
JD29693-18T	1718-51-0	Terphenyl-d14	SAMP	SURR	52	%	30-130
JD29693-19T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	55	%	30-130
JD29693-19T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	53	%	30-130
JD29693-19T	1718-51-0	Terphenyl-d14	SAMP	SURR	50	%	30-130
JD29693-20T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	63	%	30-130
JD29693-20T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	61	%	30-130
JD29693-20T	1718-51-0	Terphenyl-d14	SAMP	SURR	65	%	30-130
JD29693-21T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	68	%	30-130
JD29693-21T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	67	%	30-130
JD29693-21T	1718-51-0	Terphenyl-d14	SAMP	SURR	67	%	30-130
JD29693-22T	4165-60-0	Nitrobenzene-d5	SAMP	SURR	55	%	30-130
JD29693-22T	321-60-8	2-Fluorobiphenyl	SAMP	SURR	51	%	30-130
JD29693-22T	1718-51-0	Terphenyl-d14	SAMP	SURR	52	%	30-130

* Sample used for QC is not from job JD29693T

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD29693T
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34845A-MB1	4M101713.D	1	08/17/21	CS	08/11/21	OP34845A	E4M4741

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-1T, JD29693-2T, JD29693-3T, JD29693-4T, JD29693-5T, JD29693-6T, JD29693-7T, JD29693-8T, JD29693-9T, JD29693-10T, JD29693-11T, JD29693-12T, JD29693-13T, JD29693-15T

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	ND	3.3	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	78%	39-90%
321-60-8	2-Fluorobiphenyl	75%	35-84%
1718-51-0	Terphenyl-d14	82%	42-95%

Method Blank Summary

Job Number: JD29693T
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34846A-MB1	4M101769A.D	1	08/19/21	CS	08/17/21	OP34846A	E4M4744

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-16T, JD29693-17T, JD29693-18T, JD29693-19T, JD29693-20T, JD29693-21T, JD29693-22T

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	ND	3.3	ug/kg	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	60%	39-90%
321-60-8	2-Fluorobiphenyl	57%	35-84%
1718-51-0	Terphenyl-d14	61%	42-95%

Blank Spike Summary

Job Number: JD29693T
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34845A-BS12	4M101714.D	1	08/17/21	CS	08/11/21	OP34845A	E4M4741

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-1T, JD29693-2T, JD29693-3T, JD29693-4T, JD29693-5T, JD29693-6T, JD29693-7T, JD29693-8T, JD29693-9T, JD29693-10T, JD29693-11T, JD29693-12T, JD29693-13T, JD29693-15T

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
91-57-6	2-Methylnaphthalene	33.3	24.3	73	63-101

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	76%	39-90%
321-60-8	2-Fluorobiphenyl	76%	35-84%
1718-51-0	Terphenyl-d14	82%	42-95%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29693T
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34846A-BS12	4M101770.D	1	08/19/21	CS	08/17/21	OP34846A	E4M4744

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD29693-16T, JD29693-17T, JD29693-18T, JD29693-19T, JD29693-20T, JD29693-21T, JD29693-22T

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
91-57-6	2-Methylnaphthalene	33.3	24.6	74	63-101

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	80%	39-90%
321-60-8	2-Fluorobiphenyl	78%	35-84%
1718-51-0	Terphenyl-d14	83%	42-95%

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD29693T
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	E4M4741-CC4670	**Injection Date:**	08/17/21
Lab File ID:	4M101712.D	**Injection Time:**	00:27
Instrument ID:	GCMS4M	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	29206	6.55	36192	8.00	64860	10.10	39986	12.74
Upper Limit [a]	58412	7.05	72384	8.50	129720	10.60	79972	13.24
Lower Limit [b]	14603	6.05	18096	7.50	32430	9.60	19993	12.24

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP34845A-MB1	29234	6.55	34464	8.00	57297	10.10	32722	12.74
OP34845A-BS12	26320	6.56	32233	8.00	53234	10.10	30423	12.74
OP34914A-MB1	23054	6.56	28453	8.00	51208	10.10	31003	12.74
OP34914A-BS12	22742	6.56	28457	8.00	50666	10.10	31666	12.74
OP34914A-BSD12	22734	6.56	28175	8.00	49969	10.10	31386	12.74
ZZZZZZ	22272	6.56	27591	8.00	51065	10.10	33597	12.74
ZZZZZZ	22359	6.56	26918	8.00	49431	10.10	32447	12.74
ZZZZZZ	20859	6.56	26333	8.01	47648	10.10	33069	12.74
JD29693-9T	29220	6.55	35327	8.00	58576	10.10	32383	12.74
ZZZZZZ	29220	6.55	35327	8.00	58576	10.10	32383	12.74
ZZZZZZ	26265	6.55	30996	8.00	50245	10.10	30161	12.74
JD29693-4T	26265	6.55	30996	8.00	50245	10.10	30161	12.74
ZZZZZZ	26293	6.55	31760	8.00	53058	10.10	31881	12.74
JD29693-13T	26293	6.55	31760	8.00	53058	10.10	31881	12.74
JD29693-12T	25042	6.55	29973	8.00	49787	10.10	29928	12.74
ZZZZZZ	25042	6.55	29973	8.00	49787	10.10	29928	12.74
ZZZZZZ	26575	6.55	30688	8.00	48606	10.10	30453	12.74
JD29693-5T	26575	6.55	30688	8.00	48606	10.10	30453	12.74
JD29693-2T	24415	6.56	28060	8.00	45885	10.10	30133	12.74
ZZZZZZ	24415	6.56	28060	8.00	45885	10.10	30133	12.74
JD29693-11T	24838	6.56	27901	8.00	50562	10.11	33632	12.74
ZZZZZZ	24838	6.56	27901	8.00	50562	10.11	33632	12.74
JD29693-3T	24298	6.56	28335	8.00	46165	10.10	31333	12.74
ZZZZZZ	24298	6.56	28335	8.00	46165	10.10	31333	12.74
JD29693-6T	22283	6.56	25928	8.00	43072	10.10	32422	12.75
ZZZZZZ	22283	6.56	25928	8.00	43072	10.10	32422	12.75
OP34845A-MSA	23411	6.56	28133	8.01	45320	10.11	33951	12.75
OP34845A-MSDA	22923	6.56	26887	8.01	44032	10.11	34490	12.75
JD29693-1T	21945	6.56	25851	8.01	43460	10.11	32912	12.75
JD29693-1	21945	6.56	25851	8.01	43460	10.11	32912	12.75
ZZZZZZ	20805	6.56	24410	8.01	43724	10.11	32748	12.75
JD29693-7T	20805	6.56	24410	8.01	43724	10.11	32748	12.75
JD29693-8T	21534	6.56	25281	8.01	43300	10.11	33016	12.75
ZZZZZZ	21534	6.56	25281	8.01	43300	10.11	33016	12.75
ZZZZZZ	20434	6.56	24963	8.01	50557	10.11	34951	12.76

Internal Standard Area Summary

Job Number: JD29693T
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	E4M4741-CC4670	**Injection Date:**	08/17/21
Lab File ID:	4M101712.D	**Injection Time:**	00:27
Instrument ID:	GCMS4M	**Method:**	SW846 8270E BY SIM

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
JD29693-15T	20434	6.56	24963	8.01	50557	10.11	34951	12.76
JD29693-10T	21258	6.56	26571	8.01	47394	10.11	33921	12.76
ZZZZZZ	21258	6.56	26571	8.01	47394	10.11	33921	12.76
ZZZZZZ	22652	6.56	28782	8.01	51151	10.11	32036	12.75
ZZZZZZ	21823	6.56	27689	8.01	51225	10.11	31661	12.75
ZZZZZZ	21877	6.56	27269	8.01	50674	10.11	33198	12.76
ZZZZZZ	21991	6.56	27945	8.01	52459	10.11	32851	12.75
ZZZZZZ	21695	6.56	27865	8.01	51598	10.11	32813	12.75

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD29693T
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	E4M4742-CC4670	**Injection Date:**	08/17/21
Lab File ID:	4M101747.D	**Injection Time:**	13:56
Instrument ID:	GCMS4M	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	27103	6.55	34397	7.99	65579	10.09	44052	12.72
Upper Limit [a]	54206	7.05	68794	8.49	131158	10.59	88104	13.22
Lower Limit [b]	13552	6.05	17199	7.49	32790	9.59	22026	12.22

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
ZZZZZZ	24577	6.55	32066	8.00	61828	10.09	43225	12.74
ZZZZZZ	23734	6.55	30714	8.00	57367	10.09	40358	12.74
JD29693-11T	23734	6.55	30714	8.00	57367	10.09	40358	12.74
ZZZZZZ	24414	6.55	31611	8.00	60241	10.09	41750	12.74
JD29693-10T	23144	6.55	29510	8.00	52778	10.09	34398	12.74
ZZZZZZ	23144	6.55	29510	8.00	52778	10.09	34398	12.74

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD29693T
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	E4M4744-CC4670	**Injection Date:**	08/19/21
Lab File ID:	4M101768.D	**Injection Time:**	03:08
Instrument ID:	GCMS4M	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	24271	6.54	30922	7.99	59008	10.08	42565	12.72
Upper Limit [a]	48542	7.04	61844	8.49	118016	10.58	85130	13.22
Lower Limit [b]	12136	6.04	15461	7.49	29504	9.58	21283	12.22

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP34846A-MB1	25766	6.54	30325	7.99	52511	10.08	30978	12.72
OP34846A-BS12	27012	6.54	32446	7.99	55251	10.08	33102	12.71
OP34965A-MB1	23717	6.54	28923	7.99	52681	10.08	34603	12.72
OP34965A-BS12	24038	6.54	29028	7.99	51460	10.08	33964	12.71
OP34965A-BSD12	24168	6.54	29720	7.99	52149	10.08	34157	12.71
ZZZZZZ	20121	6.54	25597	7.99	47692	10.08	33846	12.71
ZZZZZZ	20425	6.54	26409	7.99	49610	10.08	34757	12.71
ZZZZZZ	22466	6.54	26759	7.99	48458	10.08	34002	12.71
JD29693-20T	24668	6.54	28122	7.99	47025	10.08	28051	12.72
ZZZZZZ	24668	6.54	28122	7.99	47025	10.08	28051	12.72
ZZZZZZ	24186	6.54	26839	7.99	44036	10.08	28807	12.71
JD29693-16T	24186	6.54	26839	7.99	44036	10.08	28807	12.71
ZZZZZZ	26369	6.54	29529	7.99	49341	10.08	32862	12.72
JD29693-22T	26369	6.54	29529	7.99	49341	10.08	32862	12.72
JD29693-18T	25710	6.54	29073	7.99	46232	10.08	31241	12.72
ZZZZZZ	25710	6.54	29073	7.99	46232	10.08	31241	12.72
OP34846A-MSA	24064	6.54	27250	7.99	44384	10.08	31014	12.72
OP34846A-MSDA	23582	6.54	27639	7.99	45058	10.08	31676	12.72
JD29693-19T	23040	6.53	26939	7.98	43452	10.08	30423	12.72
JD29693-19	23040	6.53	26939	7.98	43452	10.08	30423	12.72
JD29693-17T	22775	6.54	26538	7.99	43949	10.08	34379	12.72
ZZZZZZ	22775	6.54	26538	7.99	43949	10.08	34379	12.72
JD29693-21T	24080	6.54	27071	7.99	47397	10.09	36623	12.74
ZZZZZZ	24080	6.54	27071	7.99	47397	10.09	36623	12.74

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD29693T
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: SW846 8270E BY SIM **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JD29693-1T	4M101732.D	72	72	73
JD29693-2T	4M101726.D	61	59	63
JD29693-3T	4M101728.D	59	58	59
JD29693-4T	4M101722.D	73	71	73
JD29693-5T	4M101725.D	53	52	54
JD29693-6T	4M101729.D	65	63	63
JD29693-7T	4M101733.D	60	60	61
JD29693-8T	4M101734.D	71	68	62
JD29693-9T	4M101721.D	59	58	59
JD29693-10T	4M101752.D	67	67	66
JD29693-10T	4M101736.D	61	64	63
JD29693-11T	4M101750.D	74	80	75
JD29693-11T	4M101727.D	64	60	55
JD29693-12T	4M101724.D	65	64	67
JD29693-13T	4M101723.D	74	76	81
JD29693-15T	4M101735.D	66	67	62
JD29693-16T	4M101778.D	63	58	62
JD29693-17T	4M101784.D	54	53	56
JD29693-18T	4M101780.D	47	53	52
JD29693-19T	4M101783A.D	55	53	50
JD29693-20T	4M101777.D	63	61	65
JD29693-21T	4M101785.D	68	67	67
JD29693-22T	4M101779.D	55	51	52
OP34845A-BS12	4M101714.D	76	76	82
OP34845A-MB1	4M101713.D	78	75	82
OP34846A-BS12	4M101770.D	80	78	83
OP34846A-MB1	4M101769A.D	60	57	61

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	39-90%
S2 = 2-Fluorobiphenyl	35-84%
S3 = Terphenyl-d14	42-95%

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Nobis Engineering, Inc.

43 Hempstead Street, New London, CT

93203.15 PO#93203.15/200

SGS Job Number: JD29693U

Sampling Dates: 08/09/21 - 08/10/21

Report to:

Nobis Engineering, Inc.
585 Middlesex Street
Lowell, MA 01851
jbrunelle@nobis-group.com; ARoy@nobis-group.com;
gglennon@nobis-group.com
ATTN: Jeff Brunelle

Total number of pages in report: **68**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary **3**
Section 2: Case Narrative/Conformance Summary **5**
Section 3: Summary of Hits **6**
Section 4: Sample Results **8**
4.1: JD29693-1U: B-10-0002 9
4.2: JD29693-2U: B-10-0204 10
4.3: JD29693-3U: B-7-0002 11
4.4: JD29693-4U: B-7-0507 12
4.5: JD29693-5U: B-9-0002 13
4.6: JD29693-6U: B-9-0305 14
4.7: JD29693-7U: B-8-0002 15
4.8: JD29693-8U: FD-01 16
4.9: JD29693-9U: B-8-0507 17
4.10: JD29693-10U: MW-6-0002 18
4.11: JD29693-11U: MW-6-0305 19
4.12: JD29693-12U: MW-5-0002 20
4.13: JD29693-13U: MW-05-0810 21
4.14: JD29693-15U: MW-4-0002 22
4.15: JD29693-16U: MW-4-0204 23
4.16: JD29693-17U: MW-1R-0002 24
4.17: JD29693-18U: MW-1R-0406 25
4.18: JD29693-19U: B-2-0002 26
4.19: JD29693-20U: B-2-0507 27
4.20: JD29693-21U: B-3-0002 28
4.21: JD29693-22U: B-3-0305 29
Section 5: Misc. Forms **30**
5.1: Certification Exceptions 31
5.2: Chain of Custody 32
5.3: RCP Form 40
5.4: Sample Tracking Chronicle 41
5.5: QC Evaluation: CT RCP Limits 44
Section 6: GC/LC Semi-volatiles - QC Data Summaries **47**
6.1: Method Blank Summary 48
6.2: Blank Spike Summary 52
6.3: Internal Standard Area Summaries 54
6.4: DDT/Endrin Breakdown Checks 59
6.5: Surrogate Recovery Summaries 68

SGS North America Inc.

Sample Summary

Nobis Engineering, Inc.

Job No: JD29693U

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the RL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD29693-1U	08/09/21	09:15	AE	08/10/21	SO	Soil	B-10-0002
JD29693-2U	08/09/21	09:20	AE	08/10/21	SO	Soil	B-10-0204
JD29693-3U	08/09/21	09:45	AE	08/10/21	SO	Soil	B-7-0002
JD29693-4U	08/09/21	09:50	AE	08/10/21	SO	Soil	B-7-0507
JD29693-5U	08/09/21	10:05	AE	08/10/21	SO	Soil	B-9-0002
JD29693-6U	08/09/21	10:10	AE	08/10/21	SO	Soil	B-9-0305
JD29693-7U	08/09/21	10:20	AE	08/10/21	SO	Soil	B-8-0002
JD29693-8U	08/09/21	16:00	AE	08/10/21	SO	Soil	FD-01
JD29693-9U	08/09/21	10:25	AE	08/10/21	SO	Soil	B-8-0507
JD29693-10U	08/09/21	12:10	AE	08/10/21	SO	Soil	MW-6-0002
JD29693-11U	08/09/21	12:15	AE	08/10/21	SO	Soil	MW-6-0305
JD29693-12U	08/09/21	13:30	AE	08/10/21	SO	Soil	MW-5-0002

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SGS North America Inc.

Sample Summary
(continued)

Nobis Engineering, Inc.

Job No: JD29693U

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD29693-13U	08/09/21	13:40	AE	08/10/21	SO	Soil	MW-05-0810
JD29693-15U	08/10/21	09:15	AE	08/10/21	SO	Soil	MW-4-0002
JD29693-16U	08/10/21	09:25	AE	08/10/21	SO	Soil	MW-4-0204
JD29693-17U	08/10/21	11:00	AE	08/10/21	SO	Soil	MW-1R-0002
JD29693-18U	08/10/21	11:05	AE	08/10/21	SO	Soil	MW-1R-0406
JD29693-19DU	08/10/21	13:05	AE	08/10/21	SO	Soil Dup/MSD	B-2-0002
JD29693-19SU	08/10/21	13:05	AE	08/10/21	SO	Soil Matrix Spike	B-2-0002
JD29693-19U	08/10/21	13:05	AE	08/10/21	SO	Soil	B-2-0002
JD29693-20U	08/10/21	12:55	AE	08/10/21	SO	Soil	B-2-0507
JD29693-21U	08/10/21	13:25	AE	08/10/21	SO	Soil	B-3-0002
JD29693-22U	08/10/21	13:30	AE	08/10/21	SO	Soil	B-3-0305

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Nobis Engineering, Inc.	**Job No:**	JD29693U
Site:	43 Hempstead Street, New London, CT	**Report Date**	10/29/2021 12:26:59 P

On 08/10/2021, 21 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 3.7 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD29693U was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: SO **Batch ID:** OP34849

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JD29693-1U for Hexachlorobenzene: More than 40 % RPD for detected concentrations between the two GC columns.
- JD29693-1U for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD29693-1U for Decachlorobiphenyl: Outside program requirements due to matrix interference.
- JD29693-3U for Hexachlorobenzene: More than 40 % RPD for detected concentrations between the two GC columns.
- JD29693-10U for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD29693-9U for Hexachlorobenzene: More than 40 % RPD for detected concentrations between the two GC columns.
- JD29693-7U for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD29693-11U for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD29693-11U for Tetrachloro-m-xylene: Outside control limits due to matrix interference.
- JD29693-15U for Hexachlorobenzene: More than 40 % RPD for detected concentrations between the two GC columns.
- Not all RCP compounds are reported.

Matrix: SO **Batch ID:** OP34851

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JD29693-17U for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD29693-21U for Hexachlorobenzene: More than 40 % RPD for detected concentrations between the two GC columns.
- JD29693-21U for Decachlorobiphenyl: Outside control limits due to matrix interference.
- JD29693-22U for Decachlorobiphenyl: Outside control limits due to matrix interference.
- Not all RCP compounds are reported.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD29693U
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD29693-1U	**B-10-0002**					
Hexachlorobenzene [a]		0.0028	0.00074		mg/kg	SW846 8081B
JD29693-2U	**B-10-0204**					
No hits reported in this sample.						
JD29693-3U	**B-7-0002**					
Hexachlorobenzene [a]		0.0018	0.00074		mg/kg	SW846 8081B
JD29693-4U	**B-7-0507**					
No hits reported in this sample.						
JD29693-5U	**B-9-0002**					
Hexachlorobenzene		0.0017	0.00073		mg/kg	SW846 8081B
JD29693-6U	**B-9-0305**					
No hits reported in this sample.						
JD29693-7U	**B-8-0002**					
No hits reported in this sample.						
JD29693-8U	**FD-01**					
No hits reported in this sample.						
JD29693-9U	**B-8-0507**					
Hexachlorobenzene [a]		0.00083	0.00082		mg/kg	SW846 8081B
JD29693-10U	**MW-6-0002**					
Hexachlorobenzene		0.0044	0.00068		mg/kg	SW846 8081B
JD29693-11U	**MW-6-0305**					
No hits reported in this sample.						

Summary of Hits

Job Number: JD29693U
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD29693-12U	**MW-5-0002**					
No hits reported in this sample.						
JD29693-13U	**MW-05-0810**					
No hits reported in this sample.						
JD29693-15U	**MW-4-0002**					
Hexachlorobenzene [a]		0.0031	0.00072		mg/kg	SW846 8081B
JD29693-16U	**MW-4-0204**					
No hits reported in this sample.						
JD29693-17U	**MW-1R-0002**					
No hits reported in this sample.						
JD29693-18U	**MW-1R-0406**					
No hits reported in this sample.						
JD29693-19U	**B-2-0002**					
No hits reported in this sample.						
JD29693-20U	**B-2-0507**					
No hits reported in this sample.						
JD29693-21U	**B-3-0002**					
Hexachlorobenzene [a]		0.00072	0.00068		mg/kg	SW846 8081B
JD29693-22U	**B-3-0305**					
No hits reported in this sample.						

(a) More than 40 % RPD for detected concentrations between the two GC columns.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	B-10-0002		
Lab Sample ID:	JD29693-1U	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	86.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G39999.D	1	08/13/21 22:15	RK	08/12/21 09:55	OP34849	G8G1686
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene [a]	0.0028	0.00074	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		27-138%
877-09-8	Tetrachloro-m-xylene	105%		27-138%
2051-24-3	Decachlorobiphenyl	167% [b]		10-179%
2051-24-3	Decachlorobiphenyl	314% [c]		10-179%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Outside program requirements due to matrix interference.
(c) Outside control limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-10-0204		
Lab Sample ID:	JD29693-2U	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	91.6
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G168916.D	1	08/13/21 15:15	TC	08/12/21 09:55	OP34849	G1G5775
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.00070	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		27-138%
877-09-8	Tetrachloro-m-xylene	80%		27-138%
2051-24-3	Decachlorobiphenyl	87%		10-179%
2051-24-3	Decachlorobiphenyl	84%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-7-0002		
Lab Sample ID:	JD29693-3U	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	88.8
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40000.D	1	08/13/21 22:31	RK	08/12/21 09:55	OP34849	G8G1686
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene [a]	0.0018	0.00074	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		27-138%
877-09-8	Tetrachloro-m-xylene	99%		27-138%
2051-24-3	Decachlorobiphenyl	83%		10-179%
2051-24-3	Decachlorobiphenyl	119%		10-179%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-7-0507		
Lab Sample ID:	JD29693-4U	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	79.4
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40001.D	1	08/13/21 22:47	RK	08/12/21 09:55	OP34849	G8G1686
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.00082	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	69%		27-138%
877-09-8	Tetrachloro-m-xylene	72%		27-138%
2051-24-3	Decachlorobiphenyl	66%		10-179%
2051-24-3	Decachlorobiphenyl	67%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-9-0002		
Lab Sample ID:	JD29693-5U	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	87.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40002.D	1	08/13/21 23:04	RK	08/12/21 09:55	OP34849	G8G1686
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	0.0017	0.00073	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	89%		27-138%
877-09-8	Tetrachloro-m-xylene	101%		27-138%
2051-24-3	Decachlorobiphenyl	88%		10-179%
2051-24-3	Decachlorobiphenyl	131%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-9-0305		
Lab Sample ID:	JD29693-6U	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	93.4
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40003.D	1	08/13/21 23:20	RK	08/12/21 09:55	OP34849	G8G1686
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.00067	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		27-138%
877-09-8	Tetrachloro-m-xylene	80%		27-138%
2051-24-3	Decachlorobiphenyl	73%		10-179%
2051-24-3	Decachlorobiphenyl	83%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-8-0002		
Lab Sample ID:	JD29693-7U	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	80.6
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40004.D	1	08/13/21 23:36	RK	08/12/21 09:55	OP34849	G8G1686
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.00080	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	93%		27-138%
877-09-8	Tetrachloro-m-xylene	129%		27-138%
2051-24-3	Decachlorobiphenyl	104%		10-179%
2051-24-3	Decachlorobiphenyl	283% [a]		10-179%

(a) Outside control limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD29693-8U	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	82.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40005.D	1	08/13/21 23:53	RK	08/12/21 09:55	OP34849	G8G1686
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.00079	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	67%		27-138%
877-09-8	Tetrachloro-m-xylene	72%		27-138%
2051-24-3	Decachlorobiphenyl	68%		10-179%
2051-24-3	Decachlorobiphenyl	131%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-8-0507		
Lab Sample ID:	JD29693-9U	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	80.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40006.D	1	08/14/21 00:09	RK	08/12/21 09:55	OP34849	G8G1686
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene [a]	0.00083	0.00082	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	75%		27-138%
877-09-8	Tetrachloro-m-xylene	80%		27-138%
2051-24-3	Decachlorobiphenyl	67%		10-179%
2051-24-3	Decachlorobiphenyl	70%		10-179%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-0002		
Lab Sample ID:	JD29693-10U	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	90.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40007.D	1	08/14/21 00:26	RK	08/12/21 09:55	OP34849	G8G1686
Run #2							

	Initial Weight	Final Volume
Run #1	16.1 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	0.0044	0.00068	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	62%		27-138%
877-09-8	Tetrachloro-m-xylene	83%		27-138%
2051-24-3	Decachlorobiphenyl	87%		10-179%
2051-24-3	Decachlorobiphenyl	530% [a]		10-179%

(a) Outside control limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6-0305		
Lab Sample ID:	JD29693-11U	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	85.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40008.D	1	08/14/21 00:42	RK	08/12/21 09:55	OP34849	G8G1686
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.00077	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	151% [a]		27-138%
877-09-8	Tetrachloro-m-xylene	104%		27-138%
2051-24-3	Decachlorobiphenyl	2609% [a]		10-179%
2051-24-3	Decachlorobiphenyl	5118% [a]		10-179%

(a) Outside control limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5-0002		
Lab Sample ID:	JD29693-12U	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	94.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40179.D	1	08/24/21 15:35	TC	08/12/21 09:55	OP34849	G8G1698
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.00067	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	64%		27-138%
877-09-8	Tetrachloro-m-xylene	69%		27-138%
2051-24-3	Decachlorobiphenyl	63%		10-179%
2051-24-3	Decachlorobiphenyl	72%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-05-0810		
Lab Sample ID:	JD29693-13U	**Date Sampled:**	08/09/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	84.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40181.D	1	08/24/21 16:08	TC	08/12/21 09:55	OP34849	G8G1698
Run #2							

	Initial Weight	Final Volume
Run #1	16.0 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.00074	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%		27-138%
877-09-8	Tetrachloro-m-xylene	65%		27-138%
2051-24-3	Decachlorobiphenyl	64%		10-179%
2051-24-3	Decachlorobiphenyl	68%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4-0002		
Lab Sample ID:	JD29693-15U	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	89.7
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G40011.D	1	08/14/21 01:31	RK	08/12/21 09:55	OP34849	G8G1686
Run #2							

	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene [a]	0.0031	0.00072	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	112%		27-138%
877-09-8	Tetrachloro-m-xylene	94%		27-138%
2051-24-3	Decachlorobiphenyl	102%		10-179%
2051-24-3	Decachlorobiphenyl	121%		10-179%

(a) More than 40 % RPD for detected concentrations between the two GC columns.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-4-0204		
Lab Sample ID:	JD29693-16U	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	70.0
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G39984.D	1	08/13/21 03:53	CP	08/12/21 18:10	OP34851	G8G1684
Run #2							

	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.00090	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	61%		27-138%
877-09-8	Tetrachloro-m-xylene	67%		27-138%
2051-24-3	Decachlorobiphenyl	59%		10-179%
2051-24-3	Decachlorobiphenyl	73%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R-0002		
Lab Sample ID:	JD29693-17U	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	91.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G39985.D	1	08/13/21 04:09	CP	08/12/21 18:10	OP34851	G8G1684
Run #2							

	Initial Weight	Final Volume
Run #1	16.4 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.00066	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%		27-138%
877-09-8	Tetrachloro-m-xylene	69%		27-138%
2051-24-3	Decachlorobiphenyl	65%		10-179%
2051-24-3	Decachlorobiphenyl	226% [a]		10-179%

(a) Outside control limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-1R-0406		
Lab Sample ID:	JD29693-18U	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	86.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G39986.D	1	08/13/21 04:26	CP	08/12/21 18:10	OP34851	G8G1684
Run #2							

	Initial Weight	Final Volume
Run #1	16.1 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.00072	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	55%		27-138%
877-09-8	Tetrachloro-m-xylene	63%		27-138%
2051-24-3	Decachlorobiphenyl	61%		10-179%
2051-24-3	Decachlorobiphenyl	119%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	B-2-0002		
Lab Sample ID:	JD29693-19U	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	84.8
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G39981.D	1	08/13/21 03:04	CP	08/12/21 18:10	OP34851	G8G1684
Run #2							

	Initial Weight	Final Volume
Run #1	16.0 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.00074	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	73%		27-138%
877-09-8	Tetrachloro-m-xylene	80%		27-138%
2051-24-3	Decachlorobiphenyl	84%		10-179%
2051-24-3	Decachlorobiphenyl	131%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-2-0507		
Lab Sample ID:	JD29693-20U	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	81.9
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G39987.D	1	08/13/21 04:42	CP	08/12/21 18:10	OP34851	G8G1684
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.00080	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	73%		27-138%
877-09-8	Tetrachloro-m-xylene	76%		27-138%
2051-24-3	Decachlorobiphenyl	69%		10-179%
2051-24-3	Decachlorobiphenyl	86%		10-179%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0002		
Lab Sample ID:	JD29693-21U	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	91.3
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G39988.D	1	08/13/21 04:58	CP	08/12/21 18:10	OP34851	G8G1684
Run #2							

	Initial Weight	Final Volume
Run #1	16.0 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene [a]	0.00072	0.00068	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	66%		27-138%
877-09-8	Tetrachloro-m-xylene	69%		27-138%
2051-24-3	Decachlorobiphenyl	56%		10-179%
2051-24-3	Decachlorobiphenyl	194% [b]		10-179%

(a) More than 40 % RPD for detected concentrations between the two GC columns.
(b) Outside control limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	B-3-0305		
Lab Sample ID:	JD29693-22U	**Date Sampled:**	08/10/21
Matrix:	SO - Soil	**Date Received:**	08/10/21
Method:	SW846 8081B SW846 3546	**Percent Solids:**	87.5
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8G39989.D	1	08/13/21 05:15	CP	08/12/21 18:10	OP34851	G8G1684
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.00073	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		27-138%
877-09-8	Tetrachloro-m-xylene	87%		27-138%
2051-24-3	Decachlorobiphenyl	83%		10-179%
2051-24-3	Decachlorobiphenyl	189% [a]		10-179%

(a) Outside control limits due to matrix interference.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

Parameter Certification Exceptions

Job Number: JD29693U
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Hexachlorobenzene	118-74-1	**SW846 8081B**	SO	SGS is not certified for this parameter.[a]

(a) Analyte is in applied status with NJDEP for this reference method.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.

SO
SLL

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-02-FORM-Standard COC

FED-EX Tracking #
Bottle Order Control # JD29693
SGS Quote # TF-08321-148
SGS Job # NEIMAL89598

Client / Reporting Information

Company Name: Nobis
Street Address: 585 Middlesex St
City / State / Zip: Lowell MA 01851
Project Contact / E-mail: Jeff Brunelle JBrunelle@nobisgroup.com
Phone #: 603-508-0084
Sampler(s) Name(s) / Phone #: A Epstein

Project Information

Project Name: 43 Hempstead St New London CT
Street: 43 Hempstead
City / State: New London CT
Project #: 93203.15
Client Purchase Order #: 93203.15/208
Project Manager: Jeff Brunelle

Billing Information (If different from Report to)

Company Name: Same
Street Address:
City / State / Zip:
Attention:

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	VOCs	ETPH	PAH SIM	Pesticides	PCBs Soxhlet	RCP metals + Hg	LAB USE ONLY
1	B-10-0002		8/9/21	915	AE	G	S	5					2	2	1		X	X	X	X	X	X	P51
2	B-10-0304			920													X	X	X	X	X	X	1414
3	B-7-0002			945													X	X	X	X	X	X	4012
4	B-7-0507			950													X	X	X	X	X	X	4013
5	B-9-0002			1005													X	X	X	X	X	X	D45
6	B-9-0305			1010													X	X	X	X	X	X	
7	B-8-0002			1026													X	X	X	X	X	X	
8	FD-01			1600													X	X	X	X	X	X	
9	B-8-0507			1025													X	X	X	X	X	X	
10	MW-6-0002			1210													X	X	X	X	X	X	
11	MW-6-0305			1215													X	X	X	X	X	X	
12	MW-5-0002			1330													X	X	X	X	X	X	

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [x] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special instructions

Hold remaining soil for potential SPLP ETPH, SPLP PAH, SPLP metals

SGS-ACCUTEST MARLBOR 8/10

http://www.sgs.com/en/terms-and-condition

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by	Date / Time	Received By	Relinquished By	Date / Time	Received By
1 [signature]	8/10/21 14:55	1 [signature]	2 [signature]	8/10/21 15:00	2 Fed Ex
3 Fedex	8-11-21 8:03	3 [signature]	4		4
5		5			

Custody Seal # 17403, 15404, 15 905 — Intact / Not Intact — Preserved where applicable — Absent — Therm. ID: — On Ice — Cooler Temp. °C 3.4°C

JD29693U: Chain of Custody
Page 1 of 8

CHAIN OF CUSTODY

SGS

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-02-FORM-Standard COC

FED-EX Tracking #:
Bottle Order Control #: JD29693
SGS Quote #:
SGS Job #:

Client / Reporting Information

Company Name: NOBIS
Street Address: 565 Middlesex St
City: Lowell State: MA Zip: 01851
Project Contact: Jeff Brunelle E-mail: JBrunelle@nobis-group.com
Phone #: 603-505-0084
Sampler(s) Name(s): AEPsien Phone #:

Project Information

Project Name: 43 Hempstead St New London CT
Street: 43 Hempstead
City: New London State: CT
Project #: 93203.15
Client Purchase Order #: 93203.15 / 206
Project Manager: Jeff Brunelle

Billing Information (If different from Report to)
Company Name: Same
Street Address:
City: State: Zip:
Attention:

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	VOCs	ETPH	PAH SIM	Pesticides	PCB Soxhlet	RCP Metals + Hg						LAB USE ONLY
13	MW-05-0810		8/9/21	1340	AE	G	S	5					2	2	1		X	X	X	X	X	X						
14	TB-01			1605				3						2	1		X											
15	MW-4-0002		8/10/21	915				5					2	2	1		X	X	X	X	X	X						
16	MW-4-0204			925													X	X	X	X	X	X						
17	MW-1R-0002			1100													X	X	X	X	X	X						
18	MW-1R-0406			1105													X	X	X	X	X	X						
19	B-2-0002			1305				15					6	6	3		X	X	X	X	X	X						
20	B-2-0507			1255				5					2	2	1		X	X	X	X	X	X						
21	B-3-0002			1325				5									X	X	X	X	X	X						
22	B-3-0305			1330				5									X	X	X	X	X	X						

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink. * Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Hold remaining soil for potential SPLP ETPH, SPLP PAH, SPLP Metals
B-2-0002 MS/MSD

SGS-ACCUTEST MARLBOR 8/10

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	8/10/21 4:55	1	2	8/10/21 1840	2
Relinquished by: 3	Date / Time: 8/11/21 9:05	Received By: 3	Relinquished By: 4	Date / Time:	Received By: 4
Relinquished by: 5	Date / Time:	Received By: 5	Custody Seal #	[ ] intact [ ] Not intact	Preserved where applicable [ ] Absent; Therm. ID:

On Ice: Cooler Temp. °C

5.2 5

JD29693U: Chain of Custody
Page 2 of 8

SGS Sample Receipt Summary

Job Number: JD29693 **Client:** NOBIS ENGINEERING, INC. **Project:** SO: 43 HEMPSTEAD STREET, NEW LONDON,

Date / Time Received: 8/10/2021 6:00:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 2: (3.7); Cooler 3: (2.8);

Cooler Temps (Corrected) °C: Cooler 2: (3.7); Cooler 3: (2.8);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:			
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	2		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

JD29693U: Chain of Custody
Page 3 of 8

Job Change Order: JD29693

Requested Date:	9/2/2021	**Received Date:**	8/10/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	9/2/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	7

==========

Sample #: JD29693-1 and 7
Dept:
TAT: 7
Change:
Relog for BCTTPHSPLP, SPLPE, SPLPRATIO. (Okay to proceed out c hold)

==========

==========

Sample #: JD29693-11, 21 and 22
Dept:
TAT: 7
Change:
Relog for BCTTPHSPLP, B8270SPLPSIMPAH, SPLPE, SPLPRATIO (to proceed out of hold)

==========

==========

Sample #: JD29693-19
Dept:
TAT: 7
Change:
Relog for BCTTPHSPLP, SPLPM, SPLPE, SPLPRATIO (Okay to proce out of hold)

B-2-0002

==========

==========

Sample #: JD29693-8 and 17
Dept:
TAT: 7
Change:
Relog for B8270SPLPSIMPAH, SPLPE, SPLPRATIO (Okay to proceec of hold)

==========

Above Changes Per: Jeffrey Brunelle **Date/Time:** 9/2/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Job Change Order: JD29693

Requested Date:	9/2/2021	**Received Date:**	8/10/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	9/2/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	7

==========

Sample #: JD29693-2, 3, and 16

Dept:

TAT: 7

Change:
Relog for SPLPM, SPLPE, SPLPRATIO (Okay to proceed out of hold)

==========

==========

Sample #: JD29693-15

Dept:

TAT: 7

MW-4-0002

Change:
Relog for B8270SPLPSIMPAH, SPLPM, SPLPE, SPLPRATIO (Okay to proceed out of hold)

==========

Above Changes Per: Jeffrey Brunelle **Date/Time:** 9/2/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Job Change Order: JD29693R

Requested Date:	10/11/2021	**Received Date:**	8/10/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	10/11/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	3

==========

Sample #: JD29693R-8, 11, 15, 17, 21, 22 **Change:**
Please relog/retrieve for BR8270SPLPSIM2MNAP

Dept:

TAT: 3

==========

==========

Sample #: JD29693R-2, 3, 15, 16, 19 **Change:**
Please relog/retrieve for ESB, EBE, ECU, ENI, ETL, EVA, EZN,

Dept:

TAT: 3

==========

==========

Sample #: JD29693R- **Change:**

Dept:

TAT:

==========

Above Changes Per: Garry Glenon **Date/Time:** 10/11/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

5.2 5

JD29693U: Chain of Custody
Page 6 of 8

Job Change Order: JD29693

Requested Date:	10/11/2021	**Received Date:**	8/10/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	10/11/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	3

==========

Sample #: JD29693-1 thru 13, and 15 thru 22

Change:

Please relog/retrieve for BR8270SIM2MNAP

Dept:

TAT: 3

==========

Above Changes Per: Gary Glennon **Date/Time:** 10/11/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

5.2 5

JD29693U: Chain of Custody

Page 7 of 8

Job Change Order: JD29693

Requested Date:	10/13/2021	**Received Date:**	8/10/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	10/13/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	7

==========

Sample #:	JD29693-1 thru 13 and 15 thru 22	**Change:**	
Dept:			Relog/retrieve for PR8081HEXCBNZ
TAT:	7		

==========

Above Changes Per: Garry Glennon **Date/Time:** 10/13/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

5.2 5

JD29693U: Chain of Custody

Page 8 of 8

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **SGS North America Inc.** **Client:** **Nobis Engineering, Inc.**

Project Location: **43 Hempstead Street, New London, CT** **Project Number:** **93203.15 / 1000**

Sampling Date(s): **8/9/2021**

Laboratory Sample ID(s): JD29693-1U, JD29693-2U, JD29693-3U, JD29693-4U, JD29693-5U, JD29693-6U, JD29693-7U, JD29693-8U, JD29693-9U, JD29693-10U, JD29693-11U, JD29693-12U, JD29693-13U, JD29693-15U, JD29693-16U, JD29693-17U, JD29693-18U, JD29693-19U, JD29693-19DU, JD29693-19SU, JD29693-20U, JD29693-21U, JD29693-22U

Methods: EPA 160.3 M, SW846 8081B

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

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

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

Authorized Signature: Position: General Manager

Printed Name: Mike Earp Date: 10/29/2021

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD29693U

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29693-1U	Collected: 09-AUG-21 09:15 By: AE B-10-0002		Received: 10-AUG-21 By: MK			
JD29693-1U	SW846 8081B	13-AUG-21 22:15	RK	12-AUG-21	NT	PR8081HEXCBNZ
JD29693-2U	Collected: 09-AUG-21 09:20 By: AE B-10-0204		Received: 10-AUG-21 By: MK			
JD29693-2U	SW846 8081B	13-AUG-21 15:15	TC	12-AUG-21	NT	PR8081HEXCBNZ
JD29693-3U	Collected: 09-AUG-21 09:45 By: AE B-7-0002		Received: 10-AUG-21 By: MK			
JD29693-3U	SW846 8081B	13-AUG-21 22:31	RK	12-AUG-21	NT	PR8081HEXCBNZ
JD29693-4U	Collected: 09-AUG-21 09:50 By: AE B-7-0507		Received: 10-AUG-21 By: MK			
JD29693-4U	SW846 8081B	13-AUG-21 22:47	RK	12-AUG-21	NT	PR8081HEXCBNZ
JD29693-5U	Collected: 09-AUG-21 10:05 By: AE B-9-0002		Received: 10-AUG-21 By: MK			
JD29693-5U	SW846 8081B	13-AUG-21 23:04	RK	12-AUG-21	NT	PR8081HEXCBNZ
JD29693-6U	Collected: 09-AUG-21 10:10 By: AE B-9-0305		Received: 10-AUG-21 By: MK			
JD29693-6U	SW846 8081B	13-AUG-21 23:20	RK	12-AUG-21	NT	PR8081HEXCBNZ
JD29693-7U	Collected: 09-AUG-21 10:20 By: AE B-8-0002		Received: 10-AUG-21 By: MK			
JD29693-7U	SW846 8081B	13-AUG-21 23:36	RK	12-AUG-21	NT	PR8081HEXCBNZ
JD29693-8U	Collected: 09-AUG-21 16:00 By: AE FD-01		Received: 10-AUG-21 By: MK			
JD29693-8U	SW846 8081B	13-AUG-21 23:53	RK	12-AUG-21	NT	PR8081HEXCBNZ

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD29693U

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29693-9U B-8-0507	Collected: 09-AUG-21 10:25 By: AE		Received: 10-AUG-21 By: MK			
JD29693-9U	SW846 8081B	14-AUG-21 00:09	RK	12-AUG-21	NT	PR8081HEXCBNZ
JD29693-10U MW-6-0002	Collected: 09-AUG-21 12:10 By: AE		Received: 10-AUG-21 By: MK			
JD29693-10U	SW846 8081B	14-AUG-21 00:26	RK	12-AUG-21	NT	PR8081HEXCBNZ
JD29693-11U MW-6-0305	Collected: 09-AUG-21 12:15 By: AE		Received: 10-AUG-21 By: MK			
JD29693-11U	SW846 8081B	14-AUG-21 00:42	RK	12-AUG-21	NT	PR8081HEXCBNZ
JD29693-12U MW-5-0002	Collected: 09-AUG-21 13:30 By: AE		Received: 10-AUG-21 By: MK			
JD29693-12U	SW846 8081B	24-AUG-21 15:35	TC	12-AUG-21	NT	PR8081HEXCBNZ
JD29693-13U MW-05-0810	Collected: 09-AUG-21 13:40 By: AE		Received: 10-AUG-21 By: MK			
JD29693-13U	SW846 8081B	24-AUG-21 16:08	TC	12-AUG-21	NT	PR8081HEXCBNZ
JD29693-15U MW-4-0002	Collected: 10-AUG-21 09:15 By: AE		Received: 10-AUG-21 By: MK			
JD29693-15U	SW846 8081B	14-AUG-21 01:31	RK	12-AUG-21	NT	PR8081HEXCBNZ
JD29693-16U MW-4-0204	Collected: 10-AUG-21 09:25 By: AE		Received: 10-AUG-21 By: MK			
JD29693-16U	SW846 8081B	13-AUG-21 03:53	CP	12-AUG-21	NT	PR8081HEXCBNZ
JD29693-17U MW-1R-0002	Collected: 10-AUG-21 11:00 By: AE		Received: 10-AUG-21 By: MK			
JD29693-17U	SW846 8081B	13-AUG-21 04:09	CP	12-AUG-21	NT	PR8081HEXCBNZ

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD29693U

43 Hempstead Street, New London, CT
Project No: 93203.15 PO#93203.15/200

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD29693-18U MW-1R-0406	Collected: 10-AUG-21 11:05 By: AE		Received: 10-AUG-21 By: MK			
JD29693-18U	SW846 8081B	13-AUG-21 04:26	CP	12-AUG-21	NT	PR8081HEXCBNZ
JD29693-19U B-2-0002	Collected: 10-AUG-21 13:05 By: AE		Received: 10-AUG-21 By: MK			
JD29693-19U	SW846 8081B	13-AUG-21 03:04	CP	12-AUG-21	NT	PR8081HEXCBNZ
JD29693-20U B-2-0507	Collected: 10-AUG-21 12:55 By: AE		Received: 10-AUG-21 By: MK			
JD29693-20U	SW846 8081B	13-AUG-21 04:42	CP	12-AUG-21	NT	PR8081HEXCBNZ
JD29693-21U B-3-0002	Collected: 10-AUG-21 13:25 By: AE		Received: 10-AUG-21 By: MK			
JD29693-21U	SW846 8081B	13-AUG-21 04:58	CP	12-AUG-21	NT	PR8081HEXCBNZ
JD29693-22U B-3-0305	Collected: 10-AUG-21 13:30 By: AE		Received: 10-AUG-21 By: MK			
JD29693-22U	SW846 8081B	13-AUG-21 05:15	CP	12-AUG-21	NT	PR8081HEXCBNZ

QC Evaluation: CT RCP Limits

Job Number: JD29693U
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP34849	SW846 8081B						
OP34849-BS1	118-74-1	Hexachlorobenzene	BSP	REC	92	%	40-140
OP34849-BS1	877-09-8	Tetrachloro-m-xylene (sig#1)	BSP	SURR	75	%	30-150
OP34849-BS1	877-09-8	Tetrachloro-m-xylene (sig#2)	BSP	SURR	77	%	30-150
OP34849-BS1	2051-24-3	Decachlorobiphenyl (sig#1)	BSP	SURR	94	%	30-150
OP34849-BS1	2051-24-3	Decachlorobiphenyl (sig#2)	BSP	SURR	84	%	30-150
OP34849-MB1	877-09-8	Tetrachloro-m-xylene (sig#1)	MB	SURR	123	%	30-150
OP34849-MB1	877-09-8	Tetrachloro-m-xylene (sig#1)	MB	SURR	128	%	30-150
OP34849-MB1	877-09-8	Tetrachloro-m-xylene (sig#2)	MB	SURR	127	%	30-150
OP34849-MB1	877-09-8	Tetrachloro-m-xylene (sig#2)	MB	SURR	127	%	30-150
OP34849-MB1	2051-24-3	Decachlorobiphenyl (sig#1)	MB	SURR	136	%	30-150
OP34849-MB1	2051-24-3	Decachlorobiphenyl (sig#1)	MB	SURR	141	%	30-150
OP34849-MB1	2051-24-3	Decachlorobiphenyl (sig#2)	MB	SURR	146	%	30-150
OP34849-MB1	2051-24-3	Decachlorobiphenyl (sig#2)	MB	SURR	136	%	30-150
JD29693-1U	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	91	%	30-150
JD29693-1U	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	105	%	30-150
JD29693-1U	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	167 [a]	%	30-150
JD29693-1U	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	314 [b]	%	30-150
JD29693-2U	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	77	%	30-150
JD29693-2U	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	80	%	30-150
JD29693-2U	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	87	%	30-150
JD29693-2U	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	84	%	30-150
JD29693-3U	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	91	%	30-150
JD29693-3U	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	99	%	30-150
JD29693-3U	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	83	%	30-150
JD29693-3U	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	119	%	30-150
JD29693-4U	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	69	%	30-150
JD29693-4U	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	72	%	30-150
JD29693-4U	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	66	%	30-150
JD29693-4U	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	67	%	30-150
JD29693-5U	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	89	%	30-150
JD29693-5U	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	101	%	30-150
JD29693-5U	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	88	%	30-150
JD29693-5U	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	131	%	30-150
JD29693-6U	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	75	%	30-150
JD29693-6U	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	80	%	30-150
JD29693-6U	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	73	%	30-150
JD29693-6U	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	83	%	30-150
JD29693-7U	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	93	%	30-150
JD29693-7U	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	129	%	30-150
JD29693-7U	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	104	%	30-150
JD29693-7U	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	283 [b]	%	30-150
JD29693-8U	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	67	%	30-150

* Sample used for QC is not from job JD29693U

QC Evaluation: CT RCP Limits

Job Number: JD29693U
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD29693-8U	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	72	%	30-150
JD29693-8U	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	68	%	30-150
JD29693-8U	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	131	%	30-150
JD29693-9U	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	75	%	30-150
JD29693-9U	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	80	%	30-150
JD29693-9U	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	67	%	30-150
JD29693-9U	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	70	%	30-150
JD29693-10U	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	62	%	30-150
JD29693-10U	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	83	%	30-150
JD29693-10U	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	87	%	30-150
JD29693-10U	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	530 [b]	%	30-150
JD29693-11U	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	151 [b]	%	30-150
JD29693-11U	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	104	%	30-150
JD29693-11U	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	2609 [b]	%	30-150
JD29693-11U	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	5118 [b]	%	30-150
JD29693-12U	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	64	%	30-150
JD29693-12U	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	69	%	30-150
JD29693-12U	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	63	%	30-150
JD29693-12U	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	72	%	30-150
JD29693-13U	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	63	%	30-150
JD29693-13U	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	65	%	30-150
JD29693-13U	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	64	%	30-150
JD29693-13U	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	68	%	30-150
JD29693-15U	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	112	%	30-150
JD29693-15U	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	94	%	30-150
JD29693-15U	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	102	%	30-150
JD29693-15U	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	121	%	30-150
OP34851	SW846 8081B						
OP34851-BS1	118-74-1	Hexachlorobenzene	BSP	REC	91	%	40-140
OP34851-BS1	877-09-8	Tetrachloro-m-xylene (sig#1)	BSP	SURR	96	%	30-150
OP34851-BS1	877-09-8	Tetrachloro-m-xylene (sig#2)	BSP	SURR	91	%	30-150
OP34851-BS1	2051-24-3	Decachlorobiphenyl (sig#1)	BSP	SURR	104	%	30-150
OP34851-BS1	2051-24-3	Decachlorobiphenyl (sig#2)	BSP	SURR	104	%	30-150
OP34851-MB1	877-09-8	Tetrachloro-m-xylene (sig#1)	MB	SURR	118	%	30-150
OP34851-MB1	877-09-8	Tetrachloro-m-xylene (sig#1)	MB	SURR	98	%	30-150
OP34851-MB1	877-09-8	Tetrachloro-m-xylene (sig#2)	MB	SURR	105	%	30-150
OP34851-MB1	877-09-8	Tetrachloro-m-xylene (sig#2)	MB	SURR	105	%	30-150
OP34851-MB1	2051-24-3	Decachlorobiphenyl (sig#1)	MB	SURR	96	%	30-150
OP34851-MB1	2051-24-3	Decachlorobiphenyl (sig#1)	MB	SURR	120	%	30-150
OP34851-MB1	2051-24-3	Decachlorobiphenyl (sig#2)	MB	SURR	124	%	30-150
OP34851-MB1	2051-24-3	Decachlorobiphenyl (sig#2)	MB	SURR	119	%	30-150
JD29693-16U	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	61	%	30-150
JD29693-16U	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	67	%	30-150

* Sample used for QC is not from job JD29693U

QC Evaluation: CT RCP Limits

Job Number: JD29693U
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/09/21 thru 08/10/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD29693-16U	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	59	%	30-150
JD29693-16U	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	73	%	30-150
JD29693-17U	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	63	%	30-150
JD29693-17U	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	69	%	30-150
JD29693-17U	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	65	%	30-150
JD29693-17U	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	226 [b]	%	30-150
JD29693-18U	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	55	%	30-150
JD29693-18U	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	63	%	30-150
JD29693-18U	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	61	%	30-150
JD29693-18U	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	119	%	30-150
JD29693-19U	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	73	%	30-150
JD29693-19U	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	80	%	30-150
JD29693-19U	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	84	%	30-150
JD29693-19U	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	131	%	30-150
JD29693-20U	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	73	%	30-150
JD29693-20U	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	76	%	30-150
JD29693-20U	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	69	%	30-150
JD29693-20U	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	86	%	30-150
JD29693-21U	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	66	%	30-150
JD29693-21U	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	69	%	30-150
JD29693-21U	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	56	%	30-150
JD29693-21U	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	194 [b]	%	30-150
JD29693-22U	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	81	%	30-150
JD29693-22U	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	87	%	30-150
JD29693-22U	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	83	%	30-150
JD29693-22U	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	189 [b]	%	30-150

(a) Outside program requirements due to matrix interference.
(b) Outside control limits due to matrix interference.

* Sample used for QC is not from job JD29693U

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- DDT/Endrin Breakdown Checks
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD29693U
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34849-MB1	1G168914.D	1	08/13/21	TC	08/12/21	OP34849	G1G5775

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD29693-1U, JD29693-2U, JD29693-3U, JD29693-4U, JD29693-5U, JD29693-6U, JD29693-7U, JD29693-8U, JD29693-9U, JD29693-10U, JD29693-11U, JD29693-12U, JD29693-13U, JD29693-15U

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.67	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	123%	27-138%
877-09-8	Tetrachloro-m-xylene	127%	27-138%
2051-24-3	Decachlorobiphenyl	141%	10-179%
2051-24-3	Decachlorobiphenyl	136%	10-179%

Method Blank Summary

Job Number: JD29693U
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34849-MB1	8G39998.D	1	08/13/21	RK	08/12/21	OP34849	G8G1686

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD29693-1U, JD29693-2U, JD29693-3U, JD29693-4U, JD29693-5U, JD29693-6U, JD29693-7U, JD29693-8U, JD29693-9U, JD29693-10U, JD29693-11U, JD29693-12U, JD29693-13U, JD29693-15U

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.67	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	128%	27-138%
877-09-8	Tetrachloro-m-xylene	127%	27-138%
2051-24-3	Decachlorobiphenyl	136%	10-179%
2051-24-3	Decachlorobiphenyl	146%	10-179%

Method Blank Summary

Job Number: JD29693U
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34851-MB1	6G78882.D	1	08/13/21	CP	08/12/21	OP34851	G6G2765

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD29693-16U, JD29693-17U, JD29693-18U, JD29693-19U, JD29693-20U, JD29693-21U, JD29693-22U

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.67	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	118%	27-138%
877-09-8	Tetrachloro-m-xylene	105%	27-138%
2051-24-3	Decachlorobiphenyl	120%	10-179%
2051-24-3	Decachlorobiphenyl	119%	10-179%

Method Blank Summary

Job Number: JD29693U
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34851-MB1	8G39980.D	1	08/13/21	CP	08/12/21	OP34851	G8G1684

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD29693-16U, JD29693-17U, JD29693-18U, JD29693-19U, JD29693-20U, JD29693-21U, JD29693-22U

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.67	ug/kg	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	98%	27-138%
877-09-8	Tetrachloro-m-xylene	105%	27-138%
2051-24-3	Decachlorobiphenyl	96%	10-179%
2051-24-3	Decachlorobiphenyl	124%	10-179%

Blank Spike Summary

Job Number: JD29693U
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34849-BS1	1G168915.D	1	08/13/21	TC	08/12/21	OP34849	G1G5775

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD29693-1U, JD29693-2U, JD29693-3U, JD29693-4U, JD29693-5U, JD29693-6U, JD29693-7U, JD29693-8U, JD29693-9U, JD29693-10U, JD29693-11U, JD29693-12U, JD29693-13U, JD29693-15U

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
118-74-1	Hexachlorobenzene	16.7	15.3	92	37-145

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	75%	27-138%
877-09-8	Tetrachloro-m-xylene	77%	27-138%
2051-24-3	Decachlorobiphenyl	94%	10-179%
2051-24-3	Decachlorobiphenyl	84%	10-179%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD29693U
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP34851-BS1	6G78883.D	1	08/13/21	CP	08/12/21	OP34851	G6G2765

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD29693-16U, JD29693-17U, JD29693-18U, JD29693-19U, JD29693-20U, JD29693-21U, JD29693-22U

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
118-74-1	Hexachlorobenzene	16.7	15.2	91	37-145

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	96%	27-138%
877-09-8	Tetrachloro-m-xylene	91%	27-138%
2051-24-3	Decachlorobiphenyl	104%	10-179%
2051-24-3	Decachlorobiphenyl	104%	10-179%

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD29693U
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	G1G5775-CC5651	**Injection Date:**	08/13/21
Lab File ID:	1G168912.D	**Injection Time:**	14:01
Instrument ID:	GC1G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	167379792	1.86	759218687	1.57
Upper Limit [a]	334759584	2.36	1518437374	2.07
Lower Limit [b]	83689896	1.36	379609344	1.07

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP34849-MB1	178328618	1.86	779054018	1.58
OP34849-BS1	173635528	1.86	743997929	1.58
JD29693-2U	177731422	1.86	782091824	1.58
JD29693-2	177731422	1.86	782091824	1.58
OP34849-MS	185782753	1.86	812329231	1.58
OP34849-MSD	179235819	1.86	780094891	1.58
ZZZZZZ	176263950	1.86	776801714	1.57
ZZZZZZ	177337790	1.86	787091271	1.57
ZZZZZZ	164022413	1.86	748081083	1.58
ZZZZZZ	169598896	1.86	771797489	1.57

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD29693U
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	G6G2765-CC2739	**Injection Date:**	08/12/21
Lab File ID:	6G78872.D	**Injection Time:**	22:57
Instrument ID:	GC6G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	468350880	2.18	831519837	1.83
Upper Limit [a]	936701760	2.68	1663039674	2.33
Lower Limit [b]	234175440	1.68	415759919	1.33

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP34812-MB2	479055341	2.18	721819948	1.83
OP34812-BS2	427354265	2.18	738466611	1.84
OP34812-BSD	434148790	2.18	749331399	1.84
OP34812-LB14	443509526	2.18	763251708	1.84
ZZZZZZ	419136308	2.18	731613263	1.83
ZZZZZZ	445216844	2.18	761664442	1.84
ZZZZZZ	451225084	2.18	790922423	1.84
ZZZZZZ	451431603	2.18	804092864	1.83
OP34851-MB1	423409024	2.18	689863774	1.84
OP34851-BS1	418579571	2.18	719042133	1.84
ZZZZZZ	403231219	2.18	660694685	1.84
ZZZZZZ	416350042	2.19	709799850	1.84
ZZZZZZ	407501579	2.18	700897318	1.84
ZZZZZZ	414719825	2.18	688797348	1.83

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD29693U
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	G8G1684-CC1645	**Injection Date:**	08/13/21
Lab File ID:	8G39978.D	**Injection Time:**	02:14
Instrument ID:	GC8G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	516086243	2.04	141152689	1.58
Upper Limit [a]	1032172486	2.54	282305378	2.08
Lower Limit [b]	258043122	1.54	70576345	1.08

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP34851-MB1	508796475	2.04	139726203	1.58
JD29693-19	492307631	2.05	134447917	1.59
JD29693-19U	492307631	2.05	134447917	1.59
OP34851-MS	483456885	2.05	124489436	1.59
OP34851-MSD	494131159	2.04	128913766	1.57
ZZZZZZ	506232299	2.04	130088664	1.58
JD29693-16U	506232299	2.04	130088664	1.58
JD29693-17U	519100751	2.04	133971633	1.57
ZZZZZZ	519100751	2.04	133971633	1.57
ZZZZZZ	511941168	2.04	143024695	1.58
JD29693-18U	511941168	2.04	143024695	1.58
ZZZZZZ	518323101	2.04	137980647	1.57
JD29693-20U	518323101	2.04	137980647	1.57
ZZZZZZ	523508891	2.04	114575814	1.57
JD29693-21U	523508891	2.04	114575814	1.57
ZZZZZZ	522095582	2.04	115717909	1.57
JD29693-22U	522095582	2.04	115717909	1.57

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD29693U
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	G8G1686-CC1645	**Injection Date:**	08/13/21
Lab File ID:	8G39996.D	**Injection Time:**	21:00
Instrument ID:	GC8G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	510765965	2.03	124455188	1.57
Upper Limit [a]	1021531930	2.53	248910376	2.07
Lower Limit [b]	255382983	1.53	62227594	1.07

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP34849-MB1	512287611	2.03	118975708	1.57
ZZZZZZ	498154215	2.04	136096177	1.57
JD29693-1U	498154215	2.04	136096177	1.57
JD29693-3U	512785593	2.04	129504678	1.57
ZZZZZZ	512785593	2.04	129504678	1.57
JD29693-4U	508815824	2.03	123719614	1.56
ZZZZZZ	508815824	2.03	123719614	1.56
JD29693-5U	512222332	2.03	123311798	1.56
ZZZZZZ	512222332	2.03	123311798	1.56
JD29693-6U	519670138	2.04	128696279	1.58
ZZZZZZ	519670138	2.04	128696279	1.58
ZZZZZZ	422850463	2.04	138298125	1.58
JD29693-7U	422850463	2.04	138298125	1.58
ZZZZZZ	497510784	2.04	126793708	1.58
JD29693-8U	497510784	2.04	126793708	1.58
ZZZZZZ	524694433	2.04	127260576	1.57
JD29693-9U	524694433	2.04	127260576	1.57
JD29693-10U	493416453	2.03	153349368	1.56
ZZZZZZ	493416453	2.03	153349368	1.56
JD29693-11U	405574814	2.04	67958230	1.58
ZZZZZZ	405574814	2.04	67958230	1.58
JD29693-15U	548717011	2.04	107054118	1.57
ZZZZZZ	548717011	2.04	107054118	1.57

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD29693U
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	G8G1698-CC1645	**Injection Date:**	08/24/21
Lab File ID:	8G40177.D	**Injection Time:**	14:56
Instrument ID:	GC8G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	474206724	2.02	137812094	1.55
Upper Limit [a]	948413448	2.52	275624188	2.05
Lower Limit [b]	237103362	1.52	68906047	1.05

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
JD29693-12U	548249521	2.02	165823911	1.55
ZZZZZZ	548249521	2.02	165823911	1.55
ZZZZZZ	566791884	2.03	163696114	1.56
JD29693-13U	566791884	2.03	163696114	1.56
ZZZZZZ	483723499	2.03	152906836	1.56
OP35066-MB1	480346687	2.02	137871780	1.55
OP35065-MB1	480346687	2.02	137871780	1.55
OP35065-BS1	495606257	2.03	141544292	1.56
OP35066-BS1	495606257	2.03	141544292	1.56
OP34945-MSD	538137391	2.03	148961258	1.57
OP35066-LB32	483070725	2.03	138550424	1.56
OP35065-LB30	493543049	2.02	145602112	1.55
JD30181-1A	477351085	2.02	140178180	1.55
OP35065-LS30	487856651	2.03	144505758	1.55
OP35065-MS	487856651	2.03	144505758	1.55
OP35065-MSD	472505681	2.03	138398988	1.56
JD30211-1A	501624578	2.03	145918652	1.55
OP35066-MS	497857001	2.03	144928317	1.56
OP35066-LS32	497857001	2.03	144928317	1.56
OP35066-MSD	493409429	2.03	142894377	1.56
ZZZZZZ	501046151	2.03	145108108	1.56
ZZZZZZ	508349389	2.03	146155860	1.56
ZZZZZZ	518799101	2.03	148174804	1.56
ZZZZZZ	495218335	2.03	141757224	1.56

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

DDT/Endrin Breakdown Check

Job Number: JD29693U
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample: G1G5651-DDT
Lab File ID: 1G166078.D
Instrument ID: GC1G
Injection Date: 05/13/21
Injection Time: 22:34

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	10771314	2325568
4,4'-DDE	19628625	4369331
4,4'-DDT	1543508901	381988516
DDT Breakdown [a]	1.9 %	1.7 %
Endrin aldehyde	0	0
Endrin ketone	5280959	23049144
Endrin	893692316	244261824
Endrin Breakdown [b]	0.6 %	8.6 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G5651-IC5651	1G166080.D	05/13/21	23:11	00:37	Initial cal 1
G1G5651-IC5651	1G166081.D	05/13/21	23:29	00:55	Initial cal 2
G1G5651-IC5651	1G166082.D	05/13/21	23:48	01:14	Initial cal 5
G1G5651-IC5651	1G166083.D	05/14/21	00:06	01:32	Initial cal 10
G1G5651-ICC5651	1G166084.D	05/14/21	00:24	01:50	Initial cal 25
G1G5651-IC5651	1G166085.D	05/14/21	00:43	02:09	Initial cal 50
G1G5651-IC5651	1G166086.D	05/14/21	01:01	02:27	Initial cal 75
G1G5651-IC5651	1G166087.D	05/14/21	01:19	02:45	Initial cal 100
G1G5651-IC5651	1G166088.D	05/14/21	01:38	03:04	Initial cal 500
G1G5651-IC5651	1G166089.D	05/14/21	01:56	03:22	Initial cal 500
G1G5651-ICV5651	1G166091.D	05/14/21	02:33	03:59	Initial cal verification 500
G1G5651-ICV5651	1G166092.D	05/14/21	02:51	04:17	Initial cal verification 500
G1G5651-ICV5651	1G166093.D	05/14/21	03:09	04:35	Initial cal verification 25
G1G5651-ICV5651	1G166094.D	05/14/21	03:28	04:54	Initial cal verification 25

DDT/Endrin Breakdown Check

Job Number: JD29693U
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample: G1G5775-DDT
Lab File ID: 1G168911.D
Instrument ID: GC1G
Injection Date: 08/13/21
Injection Time: 13:43

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	11964344	3513601
4,4'-DDE	6726240	2063581
4,4'-DDT	1590404680	323383424
DDT Breakdown [a]	1.2 %	1.7 %
Endrin aldehyde	1650222	703493
Endrin ketone	20036931	1145834
Endrin	941836144	217272501
Endrin Breakdown [b]	2.3 %	0.8 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G1G5775-CC5651	1G168912.D	08/13/21	14:01	00:18	Continuing cal 25
OP34849-MB1	1G168914.D	08/13/21	14:38	00:55	Method Blank
OP34849-BS1	1G168915.D	08/13/21	14:56	01:13	Blank Spike
JD29693-2U	1G168916.D	08/13/21	15:15	01:32	B-10-0204
JD29693-2	1G168916.D	08/13/21	15:15	01:32	(used for QC only; not part of job JD29693U)
OP34849-MS	1G168917.D	08/13/21	15:33	01:50	Matrix Spike
OP34849-MSD	1G168918.D	08/13/21	15:51	02:08	Matrix Spike Duplicate
ZZZZZZ	1G168920.D	08/13/21	16:27	02:44	(unrelated sample)
ZZZZZZ	1G168921.D	08/13/21	16:45	03:02	(unrelated sample)
ZZZZZZ	1G168922.D	08/13/21	17:03	03:20	(unrelated sample)
ZZZZZZ	1G168923.D	08/13/21	17:22	03:39	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JD29693U
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample:	G6G2739-DDT	**Injection Date:**	06/18/21
Lab File ID:	6G78514.D	**Injection Time:**	03:27
Instrument ID:	GC6G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	14125074	6213265
4,4'-DDE	18705711	10181979
4,4'-DDT	1195238245	620563455
DDT Breakdown [a]	2.7 %	2.6 %
Endrin aldehyde	0	0
Endrin ketone	6569129	4036389
Endrin	774861152	383466685
Endrin Breakdown [b]	0.8 %	1 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G6G2739-IC2739	6G78516A.D	06/18/21	04:31	01:04	Initial cal 1
G6G2739-IC2739	6G78517.D	06/18/21	04:49	01:22	Initial cal 2
G6G2739-IC2739	6G78518.D	06/18/21	05:07	01:41	Initial cal 5
G6G2739-IC2739	6G78519.D	06/18/21	05:26	01:59	Initial cal 10
G6G2739-ICC2739	6G78520.D	06/18/21	05:44	02:17	Initial cal 25
G6G2739-IC2739	6G78521.D	06/18/21	06:02	02:36	Initial cal 50
G6G2739-IC2739	6G78522.D	06/18/21	06:21	02:54	Initial cal 75
G6G2739-IC2739	6G78523.D	06/18/21	06:39	03:12	Initial cal 100
G6G2739-IC2739	6G78524.D	06/18/21	06:57	03:31	Initial cal 500
G6G2739-IC2739	6G78525.D	06/18/21	07:16	03:49	Initial cal 500
G6G2739-ICV2739	6G78526.D	06/18/21	07:34	04:07	Initial cal verification 25
G6G2739-ICV2739	6G78527.D	06/18/21	07:52	04:25	Initial cal verification 500
G6G2739-ICV2739	6G78528.D	06/18/21	08:10	04:44	Initial cal verification 500
G6G2739-ICV2739	6G78529.D	06/18/21	08:29	05:02	Initial cal verification 25
G6G2739-ICV2739	6G78530.D	06/18/21	08:47	05:20	Initial cal verification 25
G6G2740-CC2739	6G78531.D	06/18/21	09:05	05:39	Continuing cal 25
G6G2740-CC2739	6G78533.D	06/18/21	09:42	06:15	Continuing cal 50

DDT/Endrin Breakdown Check

Job Number: JD29693U
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample:	G6G2765-DDT	**Injection Date:**	08/12/21
Lab File ID:	6G78871.D	**Injection Time:**	22:39
Instrument ID:	GC6G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	16991726	5865052
4,4'-DDE	11276413	5438597
4,4'-DDT	1677125653	817852929
DDT Breakdown [a]	1.7 %	1.4 %
Endrin aldehyde	0	0
Endrin ketone	5582472	1443296
Endrin	1024094663	465138325
Endrin Breakdown [b]	0.5 %	0.3 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G6G2765-CC2739	6G78872.D	08/12/21	22:57	00:18	Continuing cal 50
OP34812-MB2	6G78874.D	08/12/21	23:33	00:54	Method Blank
OP34812-BS2	6G78875.D	08/12/21	23:51	01:13	Blank Spike
OP34812-BSD	6G78876.D	08/13/21	00:10	01:31	Blank Spike Duplicate
OP34812-LB14	6G78877.D	08/13/21	00:28	01:49	Leachate Blank
ZZZZZZ	6G78878.D	08/13/21	00:46	02:07	(unrelated sample)
ZZZZZZ	6G78879.D	08/13/21	01:14	02:35	(unrelated sample)
ZZZZZZ	6G78880.D	08/13/21	01:32	02:53	(unrelated sample)
ZZZZZZ	6G78881.D	08/13/21	01:50	03:11	(unrelated sample)
OP34851-MB1	6G78882.D	08/13/21	02:39	04:00	Method Blank
OP34851-BS1	6G78883.D	08/13/21	02:57	04:18	Blank Spike
ZZZZZZ	6G78886.D	08/13/21	03:51	05:12	(unrelated sample)
ZZZZZZ	6G78887.D	08/13/21	04:09	05:30	(unrelated sample)
ZZZZZZ	6G78888.D	08/13/21	04:39	06:00	(unrelated sample)
ZZZZZZ	6G78889.D	08/13/21	04:57	06:18	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JD29693U
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample: G8G1645-DDT
Lab File ID: 8G39311.D
Instrument ID: GC8G
Injection Date: 07/13/21
Injection Time: 01:56

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	2292447	8877380
4,4'-DDE	2123626	7239978
4,4'-DDT	274626741	1046167942
DDT Breakdown [a]	1.6 %	1.5 %
Endrin aldehyde	384550	2997646
Endrin ketone	1244474	16782839
Endrin	152475233	656426646
Endrin Breakdown [b]	1.1 %	2.9 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G1645-IC1645	8G39313.D	07/13/21	02:29	00:33	Initial cal 1
G8G1645-IC1645	8G39314.D	07/13/21	02:50	00:54	Initial cal 2
G8G1645-IC1645	8G39315.D	07/13/21	03:06	01:10	Initial cal 5
G8G1645-IC1645	8G39316.D	07/13/21	03:23	01:27	Initial cal 10
G8G1645-ICC1645	8G39317.D	07/13/21	03:42	01:46	Initial cal 25
G8G1645-IC1645	8G39318.D	07/13/21	04:02	02:06	Initial cal 50
G8G1645-IC1645	8G39319.D	07/13/21	04:19	02:23	Initial cal 75
G8G1645-IC1645	8G39320.D	07/13/21	04:35	02:39	Initial cal 100
G8G1645-IC1645	8G39321.D	07/13/21	04:51	02:55	Initial cal 500
G8G1645-IC1645	8G39322.D	07/13/21	05:08	03:12	Initial cal 500
G8G1645-ICV1645	8G39323.D	07/13/21	05:24	03:28	Initial cal verification 25
G8G1645-ICV1645	8G39324.D	07/13/21	05:40	03:44	Initial cal verification 500
G8G1645-ICV1645	8G39325.D	07/13/21	05:57	04:01	Initial cal verification 500
G8G1645-ICV1645	8G39326.D	07/13/21	06:13	04:17	Initial cal verification 25
G8G1645-ICV1645	8G39327.D	07/13/21	06:30	04:34	Initial cal verification 25

DDT/Endrin Breakdown Check

Job Number: JD29693U
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample:	G8G1684-DDT	**Injection Date:**	08/13/21
Lab File ID:	8G39977.D	**Injection Time:**	01:57
Instrument ID:	GC8G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	3804196	15014816
4,4'-DDE	3758361	15300876
4,4'-DDT	263523839	978240877
DDT Breakdown [a]	2.8 %	3 %
Endrin aldehyde	1865285	3112274
Endrin ketone	2227271	37284599
Endrin	154197761	602328908
Endrin Breakdown [b]	2.6 %	6.3 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G1684-CC1645	8G39978.D	08/13/21	02:14	00:17	Continuing cal 25
OP34851-MB1	8G39980.D	08/13/21	02:48	00:51	Method Blank
JD29693-19U	8G39981.D	08/13/21	03:04	01:07	B-2-0002
JD29693-19	8G39981.D	08/13/21	03:04	01:07	(used for QC only; not part of job JD29693U)
OP34851-MS	8G39982.D	08/13/21	03:20	01:23	Matrix Spike
OP34851-MSD	8G39983.D	08/13/21	03:37	01:40	Matrix Spike Duplicate
ZZZZZZ	8G39984.D	08/13/21	03:53	01:56	(unrelated sample)
JD29693-16U	8G39984.D	08/13/21	03:53	01:56	MW-4-0204
JD29693-17U	8G39985.D	08/13/21	04:09	02:12	MW-1R-0002
ZZZZZZ	8G39985.D	08/13/21	04:09	02:12	(unrelated sample)
JD29693-18U	8G39986.D	08/13/21	04:26	02:29	MW-1R-0406
ZZZZZZ	8G39986.D	08/13/21	04:26	02:29	(unrelated sample)
JD29693-20U	8G39987.D	08/13/21	04:42	02:45	B-2-0507
ZZZZZZ	8G39987.D	08/13/21	04:42	02:45	(unrelated sample)
ZZZZZZ	8G39988.D	08/13/21	04:58	03:01	(unrelated sample)
JD29693-21U	8G39988.D	08/13/21	04:58	03:01	B-3-0002
ZZZZZZ	8G39989.D	08/13/21	05:15	03:18	(unrelated sample)
JD29693-22U	8G39989.D	08/13/21	05:15	03:18	B-3-0305

DDT/Endrin Breakdown Check

Job Number: JD29693U
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample: G8G1686-DDT
Lab File ID: 8G39995.D
Instrument ID: GC8G
Injection Date: 08/13/21
Injection Time: 20:12

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	2864827	15383540
4,4'-DDE	1871538	7726679
4,4'-DDT	206147161	794869583
DDT Breakdown [a]	2.2 %	2.8 %
Endrin aldehyde	1087354	3997273
Endrin ketone	2435591	19234371
Endrin	122548702	546596240
Endrin Breakdown [b]	2.8 %	4.1 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G1686-CC1645	8G39996.D	08/13/21	21:00	00:48	Continuing cal 50
OP34849-MB1	8G39998.D	08/13/21	21:58	01:46	Method Blank
JD29693-1U	8G39999.D	08/13/21	22:15	02:03	B-10-0002
ZZZZZZ	8G39999.D	08/13/21	22:15	02:03	(unrelated sample)
ZZZZZZ	8G40000.D	08/13/21	22:31	02:19	(unrelated sample)
JD29693-3U	8G40000.D	08/13/21	22:31	02:19	B-7-0002
JD29693-4U	8G40001.D	08/13/21	22:47	02:35	B-7-0507
ZZZZZZ	8G40001.D	08/13/21	22:47	02:35	(unrelated sample)
ZZZZZZ	8G40002.D	08/13/21	23:04	02:52	(unrelated sample)
JD29693-5U	8G40002.D	08/13/21	23:04	02:52	B-9-0002
ZZZZZZ	8G40003.D	08/13/21	23:20	03:08	(unrelated sample)
JD29693-6U	8G40003.D	08/13/21	23:20	03:08	B-9-0305
ZZZZZZ	8G40004.D	08/13/21	23:36	03:24	(unrelated sample)
JD29693-7U	8G40004.D	08/13/21	23:36	03:24	B-8-0002
ZZZZZZ	8G40005.D	08/13/21	23:53	03:41	(unrelated sample)
JD29693-8U	8G40005.D	08/13/21	23:53	03:41	FD-01
ZZZZZZ	8G40006.D	08/14/21	00:09	03:57	(unrelated sample)
JD29693-9U	8G40006.D	08/14/21	00:09	03:57	B-8-0507
JD29693-10U	8G40007.D	08/14/21	00:26	04:14	MW-6-0002
ZZZZZZ	8G40007.D	08/14/21	00:26	04:14	(unrelated sample)
ZZZZZZ	8G40008.D	08/14/21	00:42	04:30	(unrelated sample)
JD29693-11U	8G40008.D	08/14/21	00:42	04:30	MW-6-0305
JD29693-15U	8G40011.D	08/14/21	01:31	05:19	MW-4-0002
ZZZZZZ	8G40011.D	08/14/21	01:31	05:19	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JD29693U
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample:	G8G1698-DDT	**Injection Date:**	08/24/21
Lab File ID:	8G40176.D	**Injection Time:**	14:39
Instrument ID:	GC8G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	1878225	6889883
4,4'-DDE	1438126	8040858
4,4'-DDT	233553827	741422913
DDT Breakdown [a]	1.4 %	2 %
Endrin aldehyde	2470581	3760888
Endrin ketone	869063	12172262
Endrin	141715345	517649321
Endrin Breakdown [b]	2.3 %	3 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G8G1698-CC1645	8G40177.D	08/24/21	14:56	00:17	Continuing cal 50
ZZZZZZ	8G40179.D	08/24/21	15:35	00:56	(unrelated sample)
JD29693-12U	8G40179.D	08/24/21	15:35	00:56	MW-5-0002
JD29693-13U	8G40181.D	08/24/21	16:08	01:29	MW-05-0810
ZZZZZZ	8G40181.D	08/24/21	16:08	01:29	(unrelated sample)
ZZZZZZ	8G40182.D	08/24/21	16:24	01:45	(unrelated sample)
OP35066-MB1	8G40183.D	08/24/21	16:40	02:01	Method Blank
OP35065-MB1	8G40183.D	08/24/21	16:40	02:01	Method Blank
OP35066-BS1	8G40184.D	08/24/21	16:57	02:18	Blank Spike
OP35065-BS1	8G40184.D	08/24/21	16:57	02:18	Blank Spike
OP34945-MSD	8G40185.D	08/24/21	17:15	02:36	Matrix Spike Duplicate
OP35066-LB32	8G40186.D	08/24/21	17:31	02:52	Leachate Blank
OP35065-LB30	8G40187.D	08/24/21	17:47	03:08	Leachate Blank
JD30181-1A	8G40188.D	08/24/21	18:04	03:25	(used for QC only; not part of job JD29693U)
OP35065-MS	8G40189.D	08/24/21	18:20	03:41	Matrix Spike
OP35065-LS30	8G40189.D	08/24/21	18:20	03:41	Leachate Spike
OP35065-MSD	8G40190.D	08/24/21	18:36	03:57	Matrix Spike Duplicate
JD30211-1A	8G40191.D	08/24/21	18:53	04:14	(used for QC only; not part of job JD29693U)
OP35066-MS	8G40192.D	08/24/21	19:09	04:30	Matrix Spike
OP35066-LS32	8G40192.D	08/24/21	19:09	04:30	Leachate Spike
OP35066-MSD	8G40193.D	08/24/21	19:26	04:47	Matrix Spike Duplicate
ZZZZZZ	8G40194.D	08/24/21	19:42	05:03	(unrelated sample)
ZZZZZZ	8G40195.D	08/24/21	19:58	05:19	(unrelated sample)
ZZZZZZ	8G40196.D	08/24/21	20:15	05:36	(unrelated sample)

DDT/Endrin Breakdown Check

Job Number: JD29693U
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample: G8G1698-DDT
Lab File ID: 8G40176.D
Instrument ID: GC8G
Injection Date: 08/24/21
Injection Time: 14:39

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	8G40197.D	08/24/21	20:31	05:52	(unrelated sample)
G8G1698-CC1645	8G40200.D	08/24/21	21:20	06:41	Continuing cal 25
ZZZZZZ	8G40202.D	08/24/21	21:53	07:14	(unrelated sample)
ZZZZZZ	8G40203.D	08/24/21	22:09	07:30	(unrelated sample)
OP35066-LB29	8G40204.D	08/24/21	22:26	07:47	Leachate Blank

Surrogate Recovery Summary

Job Number: JD29693U
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: SW846 8081B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD29693-1U	8G39999.D	91	105	167 [c]	314* [d]
JD29693-2U	1G168916.D	77	80	87	84
JD29693-3U	8G40000.D	91	99	83	119
JD29693-4U	8G40001.D	69	72	66	67
JD29693-5U	8G40002.D	89	101	88	131
JD29693-6U	8G40003.D	75	80	73	83
JD29693-7U	8G40004.D	93	129	104	283* [d]
JD29693-8U	8G40005.D	67	72	68	131
JD29693-9U	8G40006.D	75	80	67	70
JD29693-10U	8G40007.D	62	83	87	530* [d]
JD29693-11U	8G40008.D	151* [d]	104	2609* [d]	5118* [d]
JD29693-12U	8G40179.D	64	69	63	72
JD29693-13U	8G40181.D	63	65	64	68
JD29693-15U	8G40011.D	112	94	102	121
JD29693-16U	8G39984.D	61	67	59	73
JD29693-17U	8G39985.D	63	69	65	226* [d]
JD29693-18U	8G39986.D	55	63	61	119
JD29693-19U	8G39981.D	73	80	84	131
JD29693-20U	8G39987.D	73	76	69	86
JD29693-21U	8G39988.D	66	69	56	194* [d]
JD29693-22U	8G39989.D	81	87	83	189* [d]
OP34849-BS1	1G168915.D	75	77	94	84
OP34849-MB1	1G168914.D	123	127	141	136
OP34849-MB1	8G39998.D	128	127	136	146
OP34851-BS1	6G78883.D	96	91	104	104
OP34851-MB1	6G78882.D	118	105	120	119
OP34851-MB1	8G39980.D	98	105	96	124

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	27-138%
S2 = Decachlorobiphenyl	10-179%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2
(c) Outside program requirements due to matrix interference.
(d) Outside control limits due to matrix interference.

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Nobis Engineering, Inc.

43 Hempstead Street, New London, CT

93203.15

SGS Job Number: JD30293

Sampling Dates: 08/18/21 - 08/19/21

Report to:

Nobis Engineering, Inc.
585 Middlesex Street
Lowell, MA 01851
jbrunelle@nobis-group.com; ARoy@nobis-group.com;
gglennon@nobis-group.com
ATTN: Jeff Brunelle

Total number of pages in report: **151**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

SGS is the sole authority for authorizing edits or modifications to this document.
Unauthorized modification of this report is strictly prohibited.
Review standard terms at: http://www.sgs.com/en/terms-and-conditions
Please share your ideas about how we can serve you better at:
EHS.US.CustomerCare@sgs.com

Table of Contents

-1-

Section 1: Sample Summary **4**
Section 2: Case Narrative/Conformance Summary **5**
Section 3: Summary of Hits **11**
Section 4: Sample Results **13**
4.1: JD30293-1: MW-3 14
4.2: JD30293-2: FD-01 22
4.3: JD30293-3: MW-2 30
4.4: JD30293-4: MW-5 38
4.5: JD30293-5: MW-6 46
4.6: JD30293-6: MW-4 54
4.7: JD30293-7: MW-1R 62
4.8: JD30293-8: TRIP BLANK 70
Section 5: Misc. Forms **73**
5.1: Certification Exceptions 74
5.2: Chain of Custody 75
5.3: RCP Form 77
5.4: Sample Tracking Chronicle 78
5.5: QC Evaluation: CT RCP Limits 81
Section 6: MS Volatiles - QC Data Summaries **97**
6.1: Method Blank Summary 98
6.2: Blank Spike Summary 101
6.3: Matrix Spike/Matrix Spike Duplicate Summary 104
6.4: Internal Standard Area Summaries 107
6.5: Surrogate Recovery Summaries 108
Section 7: MS Semi-volatiles - QC Data Summaries **109**
7.1: Method Blank Summary 110
7.2: Blank Spike/Blank Spike Duplicate Summary 112
7.3: Matrix Spike/Matrix Spike Duplicate Summary 113
7.4: Internal Standard Area Summaries 114
7.5: Surrogate Recovery Summaries 117
Section 8: GC/LC Semi-volatiles - QC Data Summaries **118**
8.1: Method Blank Summary 119
8.2: Blank Spike/Blank Spike Duplicate Summary 122
8.3: Matrix Spike/Matrix Spike Duplicate Summary 125
8.4: Internal Standard Area Summaries 128
8.5: DDT/Endrin Breakdown Checks 130
8.6: Surrogate Recovery Summaries 132
Section 9: Metals Analysis - QC Data Summaries **135**
9.1: Prep QC MP28251: Hg 136
Section 10: Misc. Forms (SGS Orlando, FL) **140**
10.1: Chain of Custody 141
10.2: Sample Tracking Chronicle 143

Table of Contents

-2-

10.3: QC Evaluation: CT RCP Limits 145
Section 11: Metals Analysis - QC Data (SGS Orlando, FL) 146
11.1: Prep QC MP39459: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Ag,Tl,V,Zn 147

SGS North America Inc.

Sample Summary

Nobis Engineering, Inc.

Job No: JD30293

43 Hempstead Street, New London, CT
Project No: 93203.15

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the RL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD30293-1	08/18/21	11:00	MC	08/19/21	AQ	Ground Water	MW-3
JD30293-2	08/18/21	08:00	MC	08/19/21	AQ	Ground Water	FD-01
JD30293-3	08/18/21	12:00	AE	08/19/21	AQ	Ground Water	MW-2
JD30293-4	08/18/21	14:15	MC	08/19/21	AQ	Ground Water	MW-5
JD30293-5	08/18/21	14:10	AE	08/19/21	AQ	Ground Water	MW-6
JD30293-5D	08/18/21	14:10	AE	08/19/21	AQ	Water Dup/MSD	MW-6
JD30293-5S	08/18/21	14:10	AE	08/19/21	AQ	Water Matrix Spike	MW-6
JD30293-6	08/19/21	10:15	MC	08/19/21	AQ	Ground Water	MW-4
JD30293-7	08/19/21	10:15	AE	08/19/21	AQ	Ground Water	MW-1R
JD30293-8	08/19/21	10:15		08/19/21	AQ	Trip Blank Water	TRIP BLANK

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Nobis Engineering, Inc.	**Job No**	JD30293
Site:	43 Hempstead Street, New London, CT	**Report Date**	9/1/2021 10:31:08 AM

On 08/19/2021, 7 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 4.3 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD30293 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260D

Matrix: AQ **Batch ID:** V4D4993

- All samples were analyzed within the recommended method holding time.
- Sample(s) JD30293-5MS, JD30293-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for MSD for 1,2-Dichlorobenzene are outside control limits for sample JD30293-5MSD. Outside control limits due to matrix interference.
- JD30293-4 for Bromomethane: Associated CCV outside of control limits low.
- JD30293-3 for Bromomethane: Associated CCV outside of control limits low.
- JD30293-2 for Bromomethane: Associated CCV outside of control limits low.
- JD30293-1 for Bromomethane: Associated CCV outside of control limits low.
- JD30293-6 for Bromomethane: Associated CCV outside of control limits low.
- JD30293-5 for Bromomethane: Associated CCV outside of control limits low.
- JD30293-8 for Bromomethane: Associated CCV outside of control limits low.
- JD30293-7 for Bromomethane: Associated CCV outside of control limits low.
- Not all RLs meet RCP requirement.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: AQ **Batch ID:** OP35038A

- All samples were extracted within the recommended method holding time.
- Sample(s) JD30293-5MS, JD30293-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Only report PAHs.
- OP35038A-MSDA for Naphthalene: Outside control limits due to high level in sample relative to spike amount.

GC/LC Semi-volatiles By Method CT-ETPH

Matrix: AQ **Batch ID:** OP35042

- All samples were extracted within the recommended method holding time.
- Sample(s) JD30293-5MS, JD30293-5MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: AQ **Batch ID:** OP35043

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD30293-5MS, JD30293-5MSD, OP35043-MSMSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Alachlor are outside control limits. Outside control limits due to matrix interference.
- OP35043-BS1 for Methoxychlor: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.
- OP35043-BSD for Methoxychlor: Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.
- Not all RLs meet RCP requirement.

GC/LC Semi-volatiles By Method SW846 8082A

Matrix: AQ **Batch ID:** OP35044

- All samples were extracted within the recommended method holding time.
- Sample(s) JD30293-5MS, JD30293-5MSD, OP35044-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method SW846 6020B

Matrix: AQ	Batch ID: F:MP39459

- The data for SW846 6020B meets quality control requirements.
- JD30293-5 for Nickel: Analysis performed at SGS Orlando, FL.
- JD30293-1 for Antimony: Analysis performed at SGS Orlando, FL.
- JD30293-5 for Selenium: Analysis performed at SGS Orlando, FL.
- JD30293-5 for Antimony: Analysis performed at SGS Orlando, FL.
- JD30293-5 for Arsenic: Analysis performed at SGS Orlando, FL.
- JD30293-5 for Barium: Analysis performed at SGS Orlando, FL.
- JD30293-5 for Beryllium: Analysis performed at SGS Orlando, FL.
- JD30293-5 for Cadmium: Analysis performed at SGS Orlando, FL.
- JD30293-5 for Chromium: Analysis performed at SGS Orlando, FL.
- JD30293-6 for Zinc: Analysis performed at SGS Orlando, FL.
- JD30293-1 for Copper: Analysis performed at SGS Orlando, FL.
- JD30293-7 for Barium: Analysis performed at SGS Orlando, FL.
- JD30293-5 for Silver: Analysis performed at SGS Orlando, FL.
- JD30293-5 for Vanadium: Analysis performed at SGS Orlando, FL.
- JD30293-7 for Cadmium: Analysis performed at SGS Orlando, FL.
- JD30293-5 for Copper: Analysis performed at SGS Orlando, FL.
- JD30293-7 for Vanadium: Analysis performed at SGS Orlando, FL.
- JD30293-5 for Zinc: Analysis performed at SGS Orlando, FL.
- JD30293-7 for Chromium: Analysis performed at SGS Orlando, FL.
- JD30293-2 for Nickel: Analysis performed at SGS Orlando, FL.
- JD30293-7 for Lead: Analysis performed at SGS Orlando, FL.
- JD30293-7 for Nickel: Analysis performed at SGS Orlando, FL.
- JD30293-7 for Selenium: Analysis performed at SGS Orlando, FL.
- JD30293-7 for Copper: Analysis performed at SGS Orlando, FL.
- JD30293-7 for Thallium: Analysis performed at SGS Orlando, FL.
- JD30293-1 for Cadmium: Analysis performed at SGS Orlando, FL.
- JD30293-7 for Zinc: Analysis performed at SGS Orlando, FL.
- JD30293-6 for Selenium: Analysis performed at SGS Orlando, FL.
- JD30293-7 for Beryllium: Analysis performed at SGS Orlando, FL.
- JD30293-6 for Thallium: Analysis performed at SGS Orlando, FL.
- JD30293-1 for Arsenic: Analysis performed at SGS Orlando, FL.
- JD30293-1 for Barium: Analysis performed at SGS Orlando, FL.
- JD30293-7 for Silver: Analysis performed at SGS Orlando, FL.
- JD30293-1 for Selenium: Analysis performed at SGS Orlando, FL.
- JD30293-6 for Cadmium: Analysis performed at SGS Orlando, FL.
- JD30293-2 for Barium: Analysis performed at SGS Orlando, FL.
- JD30293-2 for Arsenic: Analysis performed at SGS Orlando, FL.
- JD30293-2 for Antimony: Analysis performed at SGS Orlando, FL.
- JD30293-1 for Zinc: Analysis performed at SGS Orlando, FL.
- JD30293-1 for Vanadium: Analysis performed at SGS Orlando, FL.

Metals Analysis By Method SW846 6020B

Matrix: AQ **Batch ID:** F:MP39459

- JD30293-2 for Cadmium: Analysis performed at SGS Orlando, FL.
- JD30293-1 for Silver: Analysis performed at SGS Orlando, FL.
- JD30293-3 for Silver: Analysis performed at SGS Orlando, FL.
- JD30293-2 for Lead: Analysis performed at SGS Orlando, FL.
- JD30293-4 for Lead: Analysis performed at SGS Orlando, FL.
- JD30293-6 for Nickel: Analysis performed at SGS Orlando, FL.
- JD30293-6 for Lead: Analysis performed at SGS Orlando, FL.
- JD30293-6 for Copper: Analysis performed at SGS Orlando, FL.
- JD30293-5 for Thallium: Analysis performed at SGS Orlando, FL.
- JD30293-1 for Thallium: Analysis performed at SGS Orlando, FL.
- JD30293-3 for Beryllium: Analysis performed at SGS Orlando, FL.
- JD30293-2 for Selenium: Analysis performed at SGS Orlando, FL.
- JD30293-2 for Silver: Analysis performed at SGS Orlando, FL.
- JD30293-2 for Thallium: Analysis performed at SGS Orlando, FL.
- JD30293-2 for Vanadium: Analysis performed at SGS Orlando, FL.
- JD30293-2 for Zinc: Analysis performed at SGS Orlando, FL.
- JD30293-3 for Arsenic: Analysis performed at SGS Orlando, FL.
- JD30293-2 for Beryllium: Analysis performed at SGS Orlando, FL.
- JD30293-3 for Barium: Analysis performed at SGS Orlando, FL.
- JD30293-6 for Beryllium: Analysis performed at SGS Orlando, FL.
- JD30293-3 for Cadmium: Analysis performed at SGS Orlando, FL.
- JD30293-3 for Chromium: Analysis performed at SGS Orlando, FL.
- JD30293-3 for Copper: Analysis performed at SGS Orlando, FL.
- JD30293-3 for Antimony: Analysis performed at SGS Orlando, FL.
- JD30293-3 for Lead: Analysis performed at SGS Orlando, FL.
- JD30293-2 for Copper: Analysis performed at SGS Orlando, FL.
- JD30293-2 for Chromium: Analysis performed at SGS Orlando, FL.
- JD30293-4 for Barium: Analysis performed at SGS Orlando, FL.
- JD30293-1 for Lead: Analysis performed at SGS Orlando, FL.
- JD30293-7 for Antimony: Analysis performed at SGS Orlando, FL.
- JD30293-7 for Arsenic: Analysis performed at SGS Orlando, FL.
- JD30293-5 for Lead: Analysis performed at SGS Orlando, FL.
- JD30293-4 for Selenium: Analysis performed at SGS Orlando, FL.
- JD30293-3 for Selenium: Analysis performed at SGS Orlando, FL.
- JD30293-1 for Beryllium: Analysis performed at SGS Orlando, FL.
- JD30293-3 for Thallium: Analysis performed at SGS Orlando, FL.
- JD30293-3 for Vanadium: Analysis performed at SGS Orlando, FL.
- JD30293-3 for Zinc: Analysis performed at SGS Orlando, FL.
- JD30293-4 for Antimony: Analysis performed at SGS Orlando, FL.
- JD30293-6 for Chromium: Analysis performed at SGS Orlando, FL.
- JD30293-6 for Vanadium: Analysis performed at SGS Orlando, FL.

Metals Analysis By Method SW846 6020B

Matrix: AQ	Batch ID: F:MP39459

- JD30293-6 for Silver: Analysis performed at SGS Orlando, FL.
- JD30293-4 for Nickel: Analysis performed at SGS Orlando, FL.
- JD30293-6 for Barium: Analysis performed at SGS Orlando, FL.
- JD30293-6 for Arsenic: Analysis performed at SGS Orlando, FL.
- JD30293-6 for Antimony: Analysis performed at SGS Orlando, FL.
- JD30293-4 for Zinc: Analysis performed at SGS Orlando, FL.
- JD30293-4 for Vanadium: Analysis performed at SGS Orlando, FL.
- JD30293-4 for Thallium: Analysis performed at SGS Orlando, FL.
- JD30293-1 for Chromium: Analysis performed at SGS Orlando, FL.
- JD30293-3 for Nickel: Analysis performed at SGS Orlando, FL.
- JD30293-4 for Arsenic: Analysis performed at SGS Orlando, FL.
- JD30293-1 for Nickel: Analysis performed at SGS Orlando, FL.
- JD30293-4 for Copper: Analysis performed at SGS Orlando, FL.
- JD30293-4 for Chromium: Analysis performed at SGS Orlando, FL.
- JD30293-4 for Cadmium: Analysis performed at SGS Orlando, FL.
- JD30293-4 for Beryllium: Analysis performed at SGS Orlando, FL.
- JD30293-4 for Silver: Analysis performed at SGS Orlando, FL.

Metals Analysis By Method SW846 7470A

Matrix: AQ	Batch ID: MP28251

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JD30293-5MS, JD30293-5MSD were used as the QC samples for metals.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: SGS Dayton, NJ **Job No:** JD30293

Site: NEIMAL: 43 Hempstead Street, New London, CT **Report Date:** 8/31/2021 3:44:06

On 08/27/2021, 7 Sample(s), 0 Trip Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 0.8 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD30293 was Assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Metals Analysis By Method SW846 6020B

Matrix: AQ **Batch ID:** MP39459

Sample(s) JD30293-5DUP, JD30293-5MS, JD30293-5MSD, JD30293-5SDL were used as the QC samples for metals.

RPD(s) for Duplicate for Antimony are outside control limits for sample MP39459-D1. RPD acceptable due to low duplicate and sample concentrations.

RPD(s) for Serial Dilution for Antimony, Arsenic, Chromium, Nickel, Vanadium, Zinc are outside control limits for sample MP39459-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted. Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria. SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety.

Narrative prepared by:

_____

Kim Benham, Client Services *(Signature on File)*

Summary of Hits

Job Number: JD30293
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD30293-1	**MW-3**					
Arsenic [a]		2.4	2.0		ug/l	SW846 6020B
Barium [a]		136	2.0		ug/l	SW846 6020B
Chromium [a]		10.8	2.0		ug/l	SW846 6020B
Copper [a]		39.7	2.0		ug/l	SW846 6020B
Lead [a]		30.2	2.0		ug/l	SW846 6020B
Nickel [a]		3.9	2.0		ug/l	SW846 6020B
Selenium [a]		3.7	2.0		ug/l	SW846 6020B
Vanadium [a]		13.6	2.0		ug/l	SW846 6020B
Zinc [a]		75.8	4.0		ug/l	SW846 6020B
JD30293-2	**FD-01**					
Benzo(b)fluoranthene		0.0436	0.036		ug/l	SW846 8270E BY SIM
Barium [a]		111	2.0		ug/l	SW846 6020B
Chromium [a]		3.1	2.0		ug/l	SW846 6020B
Copper [a]		8.2	2.0		ug/l	SW846 6020B
Lead [a]		6.7	2.0		ug/l	SW846 6020B
Vanadium [a]		3.8	2.0		ug/l	SW846 6020B
Zinc [a]		29.3	4.0		ug/l	SW846 6020B
JD30293-3	**MW-2**					
Barium [a]		153	2.0		ug/l	SW846 6020B
Zinc [a]		63.6	4.0		ug/l	SW846 6020B
JD30293-4	**MW-5**					
Barium [a]		81.7	2.0		ug/l	SW846 6020B
Lead [a]		2.1	2.0		ug/l	SW846 6020B
Zinc [a]		6.3	4.0		ug/l	SW846 6020B
JD30293-5	**MW-6**					
Naphthalene		23.1	5.0		ug/l	SW846 8260D
Acenaphthene		0.523	0.080		ug/l	SW846 8270E BY SIM
Acenaphthylene		0.639	0.080		ug/l	SW846 8270E BY SIM
Anthracene		0.231	0.080		ug/l	SW846 8270E BY SIM
Fluoranthene		0.198	0.080		ug/l	SW846 8270E BY SIM
Fluorene		0.572	0.080		ug/l	SW846 8270E BY SIM
Naphthalene		7.28	0.80		ug/l	SW846 8270E BY SIM
Phenanthrene		0.946	0.080		ug/l	SW846 8270E BY SIM
Pyrene		0.170	0.080		ug/l	SW846 8270E BY SIM
Barium [a]		35.9	2.0		ug/l	SW846 6020B

Summary of Hits

Job Number: JD30293
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Nickel [a]		3.1	2.0		ug/l	SW846 6020B
Zinc [a]		5.1	4.0		ug/l	SW846 6020B
JD30293-6	**MW-4**					
Fluoranthene		0.122	0.074		ug/l	SW846 8270E BY SIM
Naphthalene		0.0745	0.074		ug/l	SW846 8270E BY SIM
Phenanthrene		0.106	0.074		ug/l	SW846 8270E BY SIM
Pyrene		0.114	0.074		ug/l	SW846 8270E BY SIM
Barium [a]		86.2	2.0		ug/l	SW846 6020B
Nickel [a]		2.2	2.0		ug/l	SW846 6020B
Zinc [a]		4.4	4.0		ug/l	SW846 6020B
JD30293-7	**MW-1R**					
Chloroform		7.1	1.0		ug/l	SW846 8260D
Benzo(b)fluoranthene		0.0517	0.038		ug/l	SW846 8270E BY SIM
Barium [a]		60.2	2.0		ug/l	SW846 6020B
Chromium [a]		4.6	2.0		ug/l	SW846 6020B
Copper [a]		5.4	2.0		ug/l	SW846 6020B
Lead [a]		43.7	2.0		ug/l	SW846 6020B
Nickel [a]		2.0	2.0		ug/l	SW846 6020B
Vanadium [a]		5.7	2.0		ug/l	SW846 6020B
Zinc [a]		19.9	4.0		ug/l	SW846 6020B
JD30293-8	**TRIP BLANK**					

No hits reported in this sample.

(a) Analysis performed at SGS Orlando, FL.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JD30293-1	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D112142.D	1	08/27/21 19:56	EH	n/a	n/a	V4D4993
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JD30293-1	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		85-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JD30293-1	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		80-121%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	90%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JD30293-1	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4P47153.D	1	08/25/21 02:02	CS	08/23/21 08:30	OP35038A	E4P2476
Run #2							

	Initial Volume	Final Volume
Run #1	270 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.074	ug/l	
208-96-8	Acenaphthylene	ND	0.074	ug/l	
120-12-7	Anthracene	ND	0.074	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.037	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.037	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.037	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.074	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.074	ug/l	
218-01-9	Chrysene	ND	0.074	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.074	ug/l	
206-44-0	Fluoranthene	ND	0.074	ug/l	
86-73-7	Fluorene	ND	0.074	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.074	ug/l	
91-20-3	Naphthalene	ND	0.074	ug/l	
85-01-8	Phenanthrene	ND	0.074	ug/l	
129-00-0	Pyrene	ND	0.074	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		29-124%
321-60-8	2-Fluorobiphenyl	71%		23-122%
1718-51-0	Terphenyl-d14	74%		22-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JD30293-1	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G79156.D	1	08/25/21 03:21	CP	08/24/21 18:00	OP35043	G6G2779
Run #2							

	Initial Volume	Final Volume
Run #1	245 ml	2.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0082	ug/l	
15972-60-8	Alachlor	ND	0.082	ug/l	
319-84-6	alpha-BHC	ND	0.0082	ug/l	
319-85-7	beta-BHC	ND	0.0082	ug/l	
319-86-8	delta-BHC	ND	0.0082	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0082	ug/l	
12789-03-6	Chlordane	ND	0.41	ug/l	
60-57-1	Dieldrin	ND	0.0082	ug/l	
72-54-8	4,4'-DDD	ND	0.0082	ug/l	
72-55-9	4,4'-DDE	ND	0.0082	ug/l	
50-29-3	4,4'-DDT	ND	0.0082	ug/l	
72-20-8	Endrin	ND	0.0082	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0082	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0082	ug/l	
53494-70-5	Endrin ketone	ND	0.0082	ug/l	
959-98-8	Endosulfan-I	ND	0.0082	ug/l	
33213-65-9	Endosulfan-II	ND	0.0082	ug/l	
76-44-8	Heptachlor	ND	0.0082	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0082	ug/l	
72-43-5	Methoxychlor	ND	0.016	ug/l	
8001-35-2	Toxaphene	ND	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	104%		10-165%
877-09-8	Tetrachloro-m-xylene	100%		10-165%
2051-24-3	Decachlorobiphenyl	55%		28-161%
2051-24-3	Decachlorobiphenyl	68%		28-161%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JD30293-1	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2470100.D	1	08/25/21 16:43	CP	08/24/21 18:00	OP35044	GXX7554
Run #2							

	Initial Volume	Final Volume
Run #1	245 ml	2.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.41	ug/l	
11104-28-2	Aroclor 1221	ND	0.41	ug/l	
11141-16-5	Aroclor 1232	ND	0.41	ug/l	
53469-21-9	Aroclor 1242	ND	0.41	ug/l	
12672-29-6	Aroclor 1248	ND	0.41	ug/l	
11097-69-1	Aroclor 1254	ND	0.41	ug/l	
11096-82-5	Aroclor 1260	ND	0.41	ug/l	
11100-14-4	Aroclor 1268	ND	0.41	ug/l	
37324-23-5	Aroclor 1262	ND	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	103%		10-155%
877-09-8	Tetrachloro-m-xylene	97%		10-155%
2051-24-3	Decachlorobiphenyl	55%		10-151%
2051-24-3	Decachlorobiphenyl	53%		10-151%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JD30293-1	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	CT-ETPH SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z40162.D	1	08/26/21 01:03	CP	08/25/21 14:00	OP35042	G8Z1733
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	56%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JD30293-1	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
		Percent Solids:	n/a
Project:	43 Hempstead Street, New London, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Arsenic [a]	2.4	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Barium [a]	136	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Beryllium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Cadmium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Chromium [a]	10.8	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Copper [a]	39.7	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Lead [a]	30.2	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/25/21	08/25/21	LM	SW846 7470A [2]	SW846 7470A [4]
Nickel [a]	3.9	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Selenium [a]	3.7	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Silver [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Thallium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Vanadium [a]	13.6	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Zinc [a]	75.8	4.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]

(1) Instrument QC Batch: F:MA17992
(2) Instrument QC Batch: MA51026
(3) Prep QC Batch: F:MP39459
(4) Prep QC Batch: MP28251

(a) Analysis performed at SGS Orlando, FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD30293-2	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D112143.D	1	08/27/21 20:24	EH	n/a	n/a	V4D4993
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD30293-2	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		85-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD30293-2	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		80-121%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	93%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD30293-2	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4P47154.D	1	08/25/21 02:25	CS	08/23/21 08:30	OP35038A	E4P2476
Run #2							

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.071	ug/l	
208-96-8	Acenaphthylene	ND	0.071	ug/l	
120-12-7	Anthracene	ND	0.071	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.036	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.036	ug/l	
205-99-2	Benzo(b)fluoranthene	0.0436	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.071	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.071	ug/l	
218-01-9	Chrysene	ND	0.071	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.071	ug/l	
206-44-0	Fluoranthene	ND	0.071	ug/l	
86-73-7	Fluorene	ND	0.071	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.071	ug/l	
91-20-3	Naphthalene	ND	0.071	ug/l	
85-01-8	Phenanthrene	ND	0.071	ug/l	
129-00-0	Pyrene	ND	0.071	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		29-124%
321-60-8	2-Fluorobiphenyl	73%		23-122%
1718-51-0	Terphenyl-d14	69%		22-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD30293-2	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G79157.D	1	08/25/21 03:39	CP	08/24/21 18:00	OP35043	G6G2779
Run #2							

	Initial Volume	Final Volume
Run #1	255 ml	2.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0078	ug/l	
15972-60-8	Alachlor	ND	0.078	ug/l	
319-84-6	alpha-BHC	ND	0.0078	ug/l	
319-85-7	beta-BHC	ND	0.0078	ug/l	
319-86-8	delta-BHC	ND	0.0078	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0078	ug/l	
12789-03-6	Chlordane	ND	0.39	ug/l	
60-57-1	Dieldrin	ND	0.0078	ug/l	
72-54-8	4,4'-DDD	ND	0.0078	ug/l	
72-55-9	4,4'-DDE	ND	0.0078	ug/l	
50-29-3	4,4'-DDT	ND	0.0078	ug/l	
72-20-8	Endrin	ND	0.0078	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0078	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0078	ug/l	
53494-70-5	Endrin ketone	ND	0.0078	ug/l	
959-98-8	Endosulfan-I	ND	0.0078	ug/l	
33213-65-9	Endosulfan-II	ND	0.0078	ug/l	
76-44-8	Heptachlor	ND	0.0078	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0078	ug/l	
72-43-5	Methoxychlor	ND	0.016	ug/l	
8001-35-2	Toxaphene	ND	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	108%		10-165%
877-09-8	Tetrachloro-m-xylene	99%		10-165%
2051-24-3	Decachlorobiphenyl	58%		28-161%
2051-24-3	Decachlorobiphenyl	57%		28-161%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD30293-2	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2470105.D	1	08/25/21 18:10	CP	08/24/21 18:00	OP35044	GXX7554
Run #2							

	Initial Volume	Final Volume
Run #1	255 ml	2.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.39	ug/l	
11104-28-2	Aroclor 1221	ND	0.39	ug/l	
11141-16-5	Aroclor 1232	ND	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.39	ug/l	
12672-29-6	Aroclor 1248	ND	0.39	ug/l	
11097-69-1	Aroclor 1254	ND	0.39	ug/l	
11096-82-5	Aroclor 1260	ND	0.39	ug/l	
11100-14-4	Aroclor 1268	ND	0.39	ug/l	
37324-23-5	Aroclor 1262	ND	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	103%		10-155%
877-09-8	Tetrachloro-m-xylene	100%		10-155%
2051-24-3	Decachlorobiphenyl	59%		10-151%
2051-24-3	Decachlorobiphenyl	53%		10-151%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD30293-2	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	CT-ETPH SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z40163.D	1	08/26/21 01:41	CP	08/25/21 14:00	OP35042	G8Z1733
Run #2							

	Initial Volume	Final Volume
Run #1	925 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.11	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	46%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD30293-2	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
		Percent Solids:	n/a
Project:	43 Hempstead Street, New London, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Arsenic [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Barium [a]	111	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Beryllium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Cadmium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Chromium [a]	3.1	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Copper [a]	8.2	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Lead [a]	6.7	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/25/21	08/25/21	LM	SW846 7470A [2]	SW846 7470A [4]
Nickel [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Selenium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Silver [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Thallium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Vanadium [a]	3.8	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Zinc [a]	29.3	4.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]

(1) Instrument QC Batch: F:MA17992
(2) Instrument QC Batch: MA51026
(3) Prep QC Batch: F:MP39459
(4) Prep QC Batch: MP28251

(a) Analysis performed at SGS Orlando, FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JD30293-3	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D112144.D	1	08/27/21 20:53	EH	n/a	n/a	V4D4993
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JD30293-3	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		85-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JD30293-3	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		80-121%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	92%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JD30293-3	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4P47155.D	1	08/25/21 02:48	CS	08/23/21 08:30	OP35038A	E4P2476
Run #2							

	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.077	ug/l	
208-96-8	Acenaphthylene	ND	0.077	ug/l	
120-12-7	Anthracene	ND	0.077	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.038	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.038	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.038	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.077	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.077	ug/l	
218-01-9	Chrysene	ND	0.077	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.077	ug/l	
206-44-0	Fluoranthene	ND	0.077	ug/l	
86-73-7	Fluorene	ND	0.077	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.077	ug/l	
91-20-3	Naphthalene	ND	0.077	ug/l	
85-01-8	Phenanthrene	ND	0.077	ug/l	
129-00-0	Pyrene	ND	0.077	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	86%		29-124%
321-60-8	2-Fluorobiphenyl	77%		23-122%
1718-51-0	Terphenyl-d14	79%		22-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JD30293-3	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G79158.D	1	08/25/21 03:57	CP	08/24/21 18:00	OP35043	G6G2779
Run #2							

	Initial Volume	Final Volume
Run #1	240 ml	2.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0083	ug/l	
15972-60-8	Alachlor	ND	0.083	ug/l	
319-84-6	alpha-BHC	ND	0.0083	ug/l	
319-85-7	beta-BHC	ND	0.0083	ug/l	
319-86-8	delta-BHC	ND	0.0083	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0083	ug/l	
12789-03-6	Chlordane	ND	0.42	ug/l	
60-57-1	Dieldrin	ND	0.0083	ug/l	
72-54-8	4,4'-DDD	ND	0.0083	ug/l	
72-55-9	4,4'-DDE	ND	0.0083	ug/l	
50-29-3	4,4'-DDT	ND	0.0083	ug/l	
72-20-8	Endrin	ND	0.0083	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0083	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0083	ug/l	
53494-70-5	Endrin ketone	ND	0.0083	ug/l	
959-98-8	Endosulfan-I	ND	0.0083	ug/l	
33213-65-9	Endosulfan-II	ND	0.0083	ug/l	
76-44-8	Heptachlor	ND	0.0083	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0083	ug/l	
72-43-5	Methoxychlor	ND	0.017	ug/l	
8001-35-2	Toxaphene	ND	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	106%		10-165%
877-09-8	Tetrachloro-m-xylene	96%		10-165%
2051-24-3	Decachlorobiphenyl	73%		28-161%
2051-24-3	Decachlorobiphenyl	75%		28-161%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JD30293-3	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2470106.D	1	08/25/21 18:27	CP	08/24/21 18:00	OP35044	GXX7554
Run #2							

	Initial Volume	Final Volume
Run #1	240 ml	2.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.42	ug/l	
11104-28-2	Aroclor 1221	ND	0.42	ug/l	
11141-16-5	Aroclor 1232	ND	0.42	ug/l	
53469-21-9	Aroclor 1242	ND	0.42	ug/l	
12672-29-6	Aroclor 1248	ND	0.42	ug/l	
11097-69-1	Aroclor 1254	ND	0.42	ug/l	
11096-82-5	Aroclor 1260	ND	0.42	ug/l	
11100-14-4	Aroclor 1268	ND	0.42	ug/l	
37324-23-5	Aroclor 1262	ND	0.42	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	92%		10-155%
877-09-8	Tetrachloro-m-xylene	91%		10-155%
2051-24-3	Decachlorobiphenyl	69%		10-151%
2051-24-3	Decachlorobiphenyl	64%		10-151%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JD30293-3	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	CT-ETPH SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z40164.D	1	08/26/21 02:18	CP	08/25/21 14:00	OP35042	G8Z1733
Run #2							

	Initial Volume	Final Volume
Run #1	890 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.11	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	55%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JD30293-3	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
		Percent Solids:	n/a
Project:	43 Hempstead Street, New London, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Arsenic [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Barium [a]	153	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Beryllium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Cadmium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Chromium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Copper [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Lead [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/25/21	08/25/21	LM	SW846 7470A [2]	SW846 7470A [4]
Nickel [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Selenium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Silver [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Thallium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Vanadium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Zinc [a]	63.6	4.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]

(1) Instrument QC Batch: F:MA17992
(2) Instrument QC Batch: MA51026
(3) Prep QC Batch: F:MP39459
(4) Prep QC Batch: MP28251

(a) Analysis performed at SGS Orlando, FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	JD30293-4	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D112145.D	1	08/27/21 21:22	EH	n/a	n/a	V4D4993
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	JD30293-4	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		85-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	JD30293-4	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		80-121%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	93%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	JD30293-4	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4P47156.D	1	08/25/21 03:11	CS	08/23/21 08:30	OP35038A	E4P2476
Run #2							

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.071	ug/l	
208-96-8	Acenaphthylene	ND	0.071	ug/l	
120-12-7	Anthracene	ND	0.071	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.036	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.036	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.071	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.071	ug/l	
218-01-9	Chrysene	ND	0.071	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.071	ug/l	
206-44-0	Fluoranthene	ND	0.071	ug/l	
86-73-7	Fluorene	ND	0.071	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.071	ug/l	
91-20-3	Naphthalene	ND	0.071	ug/l	
85-01-8	Phenanthrene	ND	0.071	ug/l	
129-00-0	Pyrene	ND	0.071	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	88%		29-124%
321-60-8	2-Fluorobiphenyl	82%		23-122%
1718-51-0	Terphenyl-d14	85%		22-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	JD30293-4	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G79159.D	1	08/25/21 04:14	CP	08/24/21 18:00	OP35043	G6G2779
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	2.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0080	ug/l	
15972-60-8	Alachlor	ND	0.080	ug/l	
319-84-6	alpha-BHC	ND	0.0080	ug/l	
319-85-7	beta-BHC	ND	0.0080	ug/l	
319-86-8	delta-BHC	ND	0.0080	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0080	ug/l	
12789-03-6	Chlordane	ND	0.40	ug/l	
60-57-1	Dieldrin	ND	0.0080	ug/l	
72-54-8	4,4'-DDD	ND	0.0080	ug/l	
72-55-9	4,4'-DDE	ND	0.0080	ug/l	
50-29-3	4,4'-DDT	ND	0.0080	ug/l	
72-20-8	Endrin	ND	0.0080	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0080	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0080	ug/l	
53494-70-5	Endrin ketone	ND	0.0080	ug/l	
959-98-8	Endosulfan-I	ND	0.0080	ug/l	
33213-65-9	Endosulfan-II	ND	0.0080	ug/l	
76-44-8	Heptachlor	ND	0.0080	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0080	ug/l	
72-43-5	Methoxychlor	ND	0.016	ug/l	
8001-35-2	Toxaphene	ND	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	106%		10-165%
877-09-8	Tetrachloro-m-xylene	101%		10-165%
2051-24-3	Decachlorobiphenyl	67%		28-161%
2051-24-3	Decachlorobiphenyl	68%		28-161%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	JD30293-4	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2470107.D	1	08/25/21 18:44	CP	08/24/21 18:00	OP35044	GXX7554
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	2.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.40	ug/l	
11104-28-2	Aroclor 1221	ND	0.40	ug/l	
11141-16-5	Aroclor 1232	ND	0.40	ug/l	
53469-21-9	Aroclor 1242	ND	0.40	ug/l	
12672-29-6	Aroclor 1248	ND	0.40	ug/l	
11097-69-1	Aroclor 1254	ND	0.40	ug/l	
11096-82-5	Aroclor 1260	ND	0.40	ug/l	
11100-14-4	Aroclor 1268	ND	0.40	ug/l	
37324-23-5	Aroclor 1262	ND	0.40	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	109%		10-155%
877-09-8	Tetrachloro-m-xylene	101%		10-155%
2051-24-3	Decachlorobiphenyl	68%		10-151%
2051-24-3	Decachlorobiphenyl	64%		10-151%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	JD30293-4	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	CT-ETPH SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z40165.D	1	08/26/21 02:57	CP	08/25/21 14:00	OP35042	G8Z1733
Run #2							

	Initial Volume	Final Volume
Run #1	935 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.11	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	62%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	JD30293-4	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
		Percent Solids:	n/a
Project:	43 Hempstead Street, New London, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Arsenic [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Barium [a]	81.7	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Beryllium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Cadmium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Chromium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Copper [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Lead [a]	2.1	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/25/21	08/25/21	LM	SW846 7470A [2]	SW846 7470A [4]
Nickel [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Selenium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Silver [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Thallium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Vanadium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Zinc [a]	6.3	4.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]

(1) Instrument QC Batch: F:MA17992
(2) Instrument QC Batch: MA51026
(3) Prep QC Batch: F:MP39459
(4) Prep QC Batch: MP28251

(a) Analysis performed at SGS Orlando, FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	JD30293-5	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D112139.D	1	08/27/21 18:29	EH	n/a	n/a	V4D4993
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	JD30293-5	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	23.1	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		85-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	JD30293-5	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	101%		80-121%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	93%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	JD30293-5	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4P47152.D	1	08/25/21 01:38	CS	08/23/21 08:30	OP35038A	E4P2476
Run #2	4P47215.D	10	08/25/21 21:06	KLS	08/23/21 08:30	OP35038A	E4P2478

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2	250 ml	1.0 ml

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	0.523	0.080	ug/l	
208-96-8	Acenaphthylene	0.639	0.080	ug/l	
120-12-7	Anthracene	0.231	0.080	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.040	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.040	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.040	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.080	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.080	ug/l	
218-01-9	Chrysene	ND	0.080	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.080	ug/l	
206-44-0	Fluoranthene	0.198	0.080	ug/l	
86-73-7	Fluorene	0.572	0.080	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.080	ug/l	
91-20-3	Naphthalene	7.28 [a]	0.80	ug/l	
85-01-8	Phenanthrene	0.946	0.080	ug/l	
129-00-0	Pyrene	0.170	0.080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	89%	57%	29-124%
321-60-8	2-Fluorobiphenyl	77%	50%	23-122%
1718-51-0	Terphenyl-d14	81%	53%	22-130%

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	JD30293-5	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G79160.D	1	08/25/21 04:32	CP	08/24/21 18:00	OP35043	G6G2779
Run #2							

	Initial Volume	Final Volume
Run #1	235 ml	2.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0085	ug/l	
15972-60-8	Alachlor	ND	0.085	ug/l	
319-84-6	alpha-BHC	ND	0.0085	ug/l	
319-85-7	beta-BHC	ND	0.0085	ug/l	
319-86-8	delta-BHC	ND	0.0085	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0085	ug/l	
12789-03-6	Chlordane	ND	0.43	ug/l	
60-57-1	Dieldrin	ND	0.0085	ug/l	
72-54-8	4,4'-DDD	ND	0.0085	ug/l	
72-55-9	4,4'-DDE	ND	0.0085	ug/l	
50-29-3	4,4'-DDT	ND	0.0085	ug/l	
72-20-8	Endrin	ND	0.0085	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0085	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0085	ug/l	
53494-70-5	Endrin ketone	ND	0.0085	ug/l	
959-98-8	Endosulfan-I	ND	0.0085	ug/l	
33213-65-9	Endosulfan-II	ND	0.0085	ug/l	
76-44-8	Heptachlor	ND	0.0085	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0085	ug/l	
72-43-5	Methoxychlor	ND	0.017	ug/l	
8001-35-2	Toxaphene	ND	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		10-165%
877-09-8	Tetrachloro-m-xylene	95%		10-165%
2051-24-3	Decachlorobiphenyl	84%		28-161%
2051-24-3	Decachlorobiphenyl	91%		28-161%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	JD30293-5	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2470085.D	1	08/25/21 12:25	CP	08/24/21 18:00	OP35044	GXX7554
Run #2							

	Initial Volume	Final Volume
Run #1	235 ml	2.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.43	ug/l	
11104-28-2	Aroclor 1221	ND	0.43	ug/l	
11141-16-5	Aroclor 1232	ND	0.43	ug/l	
53469-21-9	Aroclor 1242	ND	0.43	ug/l	
12672-29-6	Aroclor 1248	ND	0.43	ug/l	
11097-69-1	Aroclor 1254	ND	0.43	ug/l	
11096-82-5	Aroclor 1260	ND	0.43	ug/l	
11100-14-4	Aroclor 1268	ND	0.43	ug/l	
37324-23-5	Aroclor 1262	ND	0.43	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	92%		10-155%
877-09-8	Tetrachloro-m-xylene	90%		10-155%
2051-24-3	Decachlorobiphenyl	78%		10-151%
2051-24-3	Decachlorobiphenyl	78%		10-151%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	JD30293-5	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	CT-ETPH SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z40166.D	1	08/26/21 03:35	CP	08/25/21 14:00	OP35042	G8Z1733
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.11	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	JD30293-5	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
		Percent Solids:	n/a
Project:	43 Hempstead Street, New London, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Arsenic [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Barium [a]	35.9	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Beryllium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Cadmium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Chromium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Copper [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Lead [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/25/21	08/25/21	LM	SW846 7470A [2]	SW846 7470A [4]
Nickel [a]	3.1	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Selenium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Silver [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Thallium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Vanadium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Zinc [a]	5.1	4.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]

(1) Instrument QC Batch: F:MA17992
(2) Instrument QC Batch: MA51026
(3) Prep QC Batch: F:MP39459
(4) Prep QC Batch: MP28251

(a) Analysis performed at SGS Orlando, FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	JD30293-6	**Date Sampled:**	08/19/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D112140.D	1	08/27/21 18:58	EH	n/a	n/a	V4D4993
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	JD30293-6	**Date Sampled:**	08/19/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		85-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	JD30293-6	**Date Sampled:**	08/19/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	102%		80-121%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	92%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	JD30293-6	**Date Sampled:**	08/19/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4P47157.D	1	08/25/21 03:34	CS	08/23/21 08:30	OP35038A	E4P2476
Run #2							

	Initial Volume	Final Volume
Run #1	270 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.074	ug/l	
208-96-8	Acenaphthylene	ND	0.074	ug/l	
120-12-7	Anthracene	ND	0.074	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.037	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.037	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.037	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.074	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.074	ug/l	
218-01-9	Chrysene	ND	0.074	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.074	ug/l	
206-44-0	Fluoranthene	0.122	0.074	ug/l	
86-73-7	Fluorene	ND	0.074	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.074	ug/l	
91-20-3	Naphthalene	0.0745	0.074	ug/l	
85-01-8	Phenanthrene	0.106	0.074	ug/l	
129-00-0	Pyrene	0.114	0.074	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		29-124%
321-60-8	2-Fluorobiphenyl	65%		23-122%
1718-51-0	Terphenyl-d14	71%		22-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	JD30293-6	**Date Sampled:**	08/19/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G79167.D	1	08/25/21 06:37	CP	08/24/21 18:00	OP35043	G6G2779
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	2.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0080	ug/l	
15972-60-8	Alachlor	ND	0.080	ug/l	
319-84-6	alpha-BHC	ND	0.0080	ug/l	
319-85-7	beta-BHC	ND	0.0080	ug/l	
319-86-8	delta-BHC	ND	0.0080	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0080	ug/l	
12789-03-6	Chlordane	ND	0.40	ug/l	
60-57-1	Dieldrin	ND	0.0080	ug/l	
72-54-8	4,4'-DDD	ND	0.0080	ug/l	
72-55-9	4,4'-DDE	ND	0.0080	ug/l	
50-29-3	4,4'-DDT	ND	0.0080	ug/l	
72-20-8	Endrin	ND	0.0080	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0080	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0080	ug/l	
53494-70-5	Endrin ketone	ND	0.0080	ug/l	
959-98-8	Endosulfan-I	ND	0.0080	ug/l	
33213-65-9	Endosulfan-II	ND	0.0080	ug/l	
76-44-8	Heptachlor	ND	0.0080	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0080	ug/l	
72-43-5	Methoxychlor	ND	0.016	ug/l	
8001-35-2	Toxaphene	ND	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	110%		10-165%
877-09-8	Tetrachloro-m-xylene	103%		10-165%
2051-24-3	Decachlorobiphenyl	97%		28-161%
2051-24-3	Decachlorobiphenyl	99%		28-161%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	JD30293-6	**Date Sampled:**	08/19/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2470108.D	1	08/25/21 19:02	CP	08/24/21 18:00	OP35044	GXX7554
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	2.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.40	ug/l	
11104-28-2	Aroclor 1221	ND	0.40	ug/l	
11141-16-5	Aroclor 1232	ND	0.40	ug/l	
53469-21-9	Aroclor 1242	ND	0.40	ug/l	
12672-29-6	Aroclor 1248	ND	0.40	ug/l	
11097-69-1	Aroclor 1254	ND	0.40	ug/l	
11096-82-5	Aroclor 1260	ND	0.40	ug/l	
11100-14-4	Aroclor 1268	ND	0.40	ug/l	
37324-23-5	Aroclor 1262	ND	0.40	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	109%		10-155%
877-09-8	Tetrachloro-m-xylene	101%		10-155%
2051-24-3	Decachlorobiphenyl	94%		10-151%
2051-24-3	Decachlorobiphenyl	86%		10-151%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	JD30293-6	**Date Sampled:**	08/19/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	CT-ETPH SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z40169.D	1	08/26/21 05:31	CP	08/25/21 14:00	OP35042	G8Z1733
Run #2							

	Initial Volume	Final Volume
Run #1	985 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	JD30293-6	**Date Sampled:**	08/19/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
		Percent Solids:	n/a
Project:	43 Hempstead Street, New London, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Arsenic [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Barium [a]	86.2	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Beryllium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Cadmium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Chromium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Copper [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Lead [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/25/21	08/25/21	LM	SW846 7470A [2]	SW846 7470A [4]
Nickel [a]	2.2	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Selenium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Silver [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Thallium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Vanadium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Zinc [a]	4.4	4.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]

(1) Instrument QC Batch: F:MA17992
(2) Instrument QC Batch: MA51026
(3) Prep QC Batch: F:MP39459
(4) Prep QC Batch: MP28251

(a) Analysis performed at SGS Orlando, FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-1R		
Lab Sample ID:	JD30293-7	**Date Sampled:**	08/19/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D112141.D	1	08/27/21 19:27	EH	n/a	n/a	V4D4993
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	7.1	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R		
Lab Sample ID:	JD30293-7	**Date Sampled:**	08/19/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		85-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1R		
Lab Sample ID:	JD30293-7	**Date Sampled:**	08/19/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	103%		80-121%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	95%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-1R		
Lab Sample ID:	JD30293-7	**Date Sampled:**	08/19/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4P47158.D	1	08/25/21 03:57	CS	08/23/21 08:30	OP35038A	E4P2476
Run #2							

	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

BN PAH List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.077	ug/l	
208-96-8	Acenaphthylene	ND	0.077	ug/l	
120-12-7	Anthracene	ND	0.077	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.038	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.038	ug/l	
205-99-2	Benzo(b)fluoranthene	0.0517	0.038	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.077	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.077	ug/l	
218-01-9	Chrysene	ND	0.077	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.077	ug/l	
206-44-0	Fluoranthene	ND	0.077	ug/l	
86-73-7	Fluorene	ND	0.077	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.077	ug/l	
91-20-3	Naphthalene	ND	0.077	ug/l	
85-01-8	Phenanthrene	ND	0.077	ug/l	
129-00-0	Pyrene	ND	0.077	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		29-124%
321-60-8	2-Fluorobiphenyl	70%		23-122%
1718-51-0	Terphenyl-d14	83%		22-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-1R		
Lab Sample ID:	JD30293-7	**Date Sampled:**	08/19/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G79168.D	1	08/25/21 06:55	CP	08/24/21 18:00	OP35043	G6G2779
Run #2							

	Initial Volume	Final Volume
Run #1	235 ml	2.0 ml
Run #2		

Pesticide RCP List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0085	ug/l	
15972-60-8	Alachlor	ND	0.085	ug/l	
319-84-6	alpha-BHC	ND	0.0085	ug/l	
319-85-7	beta-BHC	ND	0.0085	ug/l	
319-86-8	delta-BHC	ND	0.0085	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0085	ug/l	
12789-03-6	Chlordane	ND	0.43	ug/l	
60-57-1	Dieldrin	ND	0.0085	ug/l	
72-54-8	4,4'-DDD	ND	0.0085	ug/l	
72-55-9	4,4'-DDE	ND	0.0085	ug/l	
50-29-3	4,4'-DDT	ND	0.0085	ug/l	
72-20-8	Endrin	ND	0.0085	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0085	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0085	ug/l	
53494-70-5	Endrin ketone	ND	0.0085	ug/l	
959-98-8	Endosulfan-I	ND	0.0085	ug/l	
33213-65-9	Endosulfan-II	ND	0.0085	ug/l	
76-44-8	Heptachlor	ND	0.0085	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0085	ug/l	
72-43-5	Methoxychlor	ND	0.017	ug/l	
8001-35-2	Toxaphene	ND	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	98%		10-165%
877-09-8	Tetrachloro-m-xylene	93%		10-165%
2051-24-3	Decachlorobiphenyl	66%		28-161%
2051-24-3	Decachlorobiphenyl	73%		28-161%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-1R		
Lab Sample ID:	JD30293-7	**Date Sampled:**	08/19/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX2470109.D	1	08/25/21 19:19	CP	08/24/21 18:00	OP35044	GXX7554
Run #2							

	Initial Volume	Final Volume
Run #1	235 ml	2.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.43	ug/l	
11104-28-2	Aroclor 1221	ND	0.43	ug/l	
11141-16-5	Aroclor 1232	ND	0.43	ug/l	
53469-21-9	Aroclor 1242	ND	0.43	ug/l	
12672-29-6	Aroclor 1248	ND	0.43	ug/l	
11097-69-1	Aroclor 1254	ND	0.43	ug/l	
11096-82-5	Aroclor 1260	ND	0.43	ug/l	
11100-14-4	Aroclor 1268	ND	0.43	ug/l	
37324-23-5	Aroclor 1262	ND	0.43	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	100%		10-155%
877-09-8	Tetrachloro-m-xylene	92%		10-155%
2051-24-3	Decachlorobiphenyl	69%		10-151%
2051-24-3	Decachlorobiphenyl	66%		10-151%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-1R		
Lab Sample ID:	JD30293-7	**Date Sampled:**	08/19/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	CT-ETPH SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	8Z40170.D	1	08/26/21 06:09	CP	08/25/21 14:00	OP35042	G8Z1733
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.11	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	64%		31-122%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-1R		
Lab Sample ID:	JD30293-7	**Date Sampled:**	08/19/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
		Percent Solids:	n/a
Project:	43 Hempstead Street, New London, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Arsenic [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Barium [a]	60.2	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Beryllium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Cadmium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Chromium [a]	4.6	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Copper [a]	5.4	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Lead [a]	43.7	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	08/25/21	08/25/21	LM	SW846 7470A [2]	SW846 7470A [4]
Nickel [a]	2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Selenium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Silver [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Thallium [a]	< 2.0	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Vanadium [a]	5.7	2.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]
Zinc [a]	19.9	4.0	ug/l	2	08/30/21	08/31/21	AFL	SW846 6020B [1]	SW846 3010A [3]

(1) Instrument QC Batch: F:MA17992
(2) Instrument QC Batch: MA51026
(3) Prep QC Batch: F:MP39459
(4) Prep QC Batch: MP28251

(a) Analysis performed at SGS Orlando, FL.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD30293-8	**Date Sampled:**	08/19/21
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4D112138.D	1	08/27/21 18:00	EH	n/a	n/a	V4D4993
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane [a]	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD30293-8	**Date Sampled:**	08/19/21
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Compound	Result	RL	Units	Q
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		85-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	JD30293-8	**Date Sampled:**	08/19/21
Matrix:	AQ - Trip Blank Water	**Date Received:**	08/19/21
Method:	SW846 8260D	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

VOA RCP List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	98%		80-121%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	94%		80-120%

(a) Associated CCV outside of control limits low.

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

Parameter Certification Exceptions

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Alachlor	15972-60-8	**SW846 8081B**	AQ	SGS is not certified for this parameter.[a]

(a) Analyte is in applied status with NJDEP for this reference method.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.

GW
TB

CHAIN OF CUSTODY

SGS

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-02-FORM-Standard COC

Page 1 of 1

FED-EX Tracking # 9304 4370 9887
Bottle Order Control # TF-08321-146
SGS Quote #
SGS Job # JD30293

Client / Reporting Information

Company Name: Nobis
Street Address: 585 Middlesex St
City: Lowell State: MA Zip: 01851
Project Contact: JBrunelle@nobis-group.com E-mail:
Phone #: 603 508 0084
Sampler(s) Name(s): AE, MC Phone #: 516 674 4272

Project Information

Project Name: 43 Hempstead
Street: 43 Hempstead
City: New London State: CT
Project #: 93203.15
Client Purchase Order #:
Project Manager: Jeff Brunelle
Attention:

Billing Information (if different from Report to)
Company Name: Same
Street Address:
City State Zip

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	VOCs	ETPH	PAH Sim	Pesticides	PCB Sc	RCP Metals + Hg						LAB USE ONLY
1	MW-3	•	8/18/21	1100	MC	G	GW	12	3		1		8				X	X	X	X	X	X						E39
2	FD-01	•		800	MC			12									X	X	X	X	X	X						A32
3	MW-2	•	8	1200	AE			12									X	X	X	X	X	X						V132
4	MW-5	•		1415	MC			12									X	X	X	X	X	X						5
5	MW-6	★		1410	AE			3x6	9		3		24				X	X	X	X	X	X						
6	MW-4	•	8/19/21	1015	MC			12	3		1		8				X	X	X	X	X	X						
7	MW-1R	•	8/19/21	1015	AE			12	1		1		1				X	X	X	X	X	X						
8	Trip Blank		8/4/21	800				2	2								X											

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days* INITIAL ASESSMENT KGB
- [ ] 2 Business Days*
- [ ] 1 Business Day* LABEL VERIFICATION
- [ ] Other

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria_____
- [ ] CT RCP Criteria_____
- [ ] State Forms
- [ ] EDD Format _____
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

MW-6 MS/MSD
6x 250mL NP Ext
★ 18x250mL NP Ext
SGS-ACCUTEST MARLBOR 8/19

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1 [signature]	8/19/21 1350	1 [signature]	2 [signature]	8/19/21 1730	2 FedEx
3 [signature]	8-20-21 10:00	3 [signature]	4		4
5		5			

Custody Seal # 02687 02688 02689 02690 — ☐ Intact ☐ Not intact

Preserved where applicable ☐ Absent — Therm. ID: — On ice ☒ — Cooler Temp. °C 3.1 4.1 CTP 3.8 4.3

JD30293: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JD30293 **Client:** NOBIS ENGINEERING, INC. **Project:** GW: 43 HEMPSTEAD STREET, NEW LONDON

Date / Time Received: 8/19/2021 5:30:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.1); Cooler 2: (4.1); Cooler 3: (3.8); Cooler 4: (4.3);

Cooler Temps (Corrected) °C: Cooler 1: (3.1); Cooler 2: (4.1); Cooler 3: (3.8); Cooler 4: (4.3);

Cooler Security	Y	or N		Y	or N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	or N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:		
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	4	

Quality Control Preservation	Y	or N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	or N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	or N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	or N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify) _____ _____

Comments

SM089-03
Rev. Date 12/7/17

JD30293: Chain of Custody
Page 2 of 2

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **SGS North America Inc.** **Client:** **Nobis Engineering, Inc.**

Project Location: **43 Hempstead Street, New London, CT** **Project Number:** **93203.15 / 1000**

Sampling Date(s): **8/18/2021**

Laboratory Sample ID(s): JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7, JD30293-8, JD30293-5S, JD30293-5D

Methods: CT-ETPH, SW846 6020B, SW846 7470A, SW846 8081B, SW846 8082A, SW846 8260D, SW846 8270E BY SIM

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

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

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

Authorized Signature: Position: General Manager

Printed Name: Mike Earp Date: 9/1/2021

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD30293

43 Hempstead Street, New London, CT
Project No: 93203.15

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD30293-1 MW-3	Collected: 18-AUG-21 11:00 By: MC		Received: 19-AUG-21 By: MK			
JD30293-1	SW846 8270E BY SIM	25-AUG-21 02:02	CS	23-AUG-21	NW	BLV8270SIMPAH
JD30293-1	SW846 8081B	25-AUG-21 03:21	CP	24-AUG-21	JL	P8081RCP
JD30293-1	SW846 7470A	25-AUG-21 14:21	LM	25-AUG-21	LM	HG
JD30293-1	SW846 8082A	25-AUG-21 16:43	CP	24-AUG-21	JL	P8082RCP
JD30293-1	CT-ETPH	26-AUG-21 01:03	CP	25-AUG-21	JL	BCTTPH
JD30293-1	SW846 8260D	27-AUG-21 19:56	EH			V8260RCP
JD30293-1	SW846 6020B	31-AUG-21 10:21	AFL	30-AUG-21	AFL	AGMS,ASMS,BAMS,BEMS,CDMS, CRMS,CUMS,NIMS,PBMS,SBMS, SEMS,TLMS,VMS,ZNMS
JD30293-2 FD-01	Collected: 18-AUG-21 08:00 By: MC		Received: 19-AUG-21 By: MK			
JD30293-2	SW846 8270E BY SIM	25-AUG-21 02:25	CS	23-AUG-21	NW	BLV8270SIMPAH
JD30293-2	SW846 8081B	25-AUG-21 03:39	CP	24-AUG-21	JL	P8081RCP
JD30293-2	SW846 7470A	25-AUG-21 14:22	LM	25-AUG-21	LM	HG
JD30293-2	SW846 8082A	25-AUG-21 18:10	CP	24-AUG-21	JL	P8082RCP
JD30293-2	CT-ETPH	26-AUG-21 01:41	CP	25-AUG-21	JL	BCTTPH
JD30293-2	SW846 8260D	27-AUG-21 20:24	EH			V8260RCP
JD30293-2	SW846 6020B	31-AUG-21 10:25	AFL	30-AUG-21	AFL	AGMS,ASMS,BAMS,BEMS,CDMS, CRMS,CUMS,NIMS,PBMS,SBMS, SEMS,TLMS,VMS,ZNMS
JD30293-3 MW-2	Collected: 18-AUG-21 12:00 By: AE		Received: 19-AUG-21 By: MK			
JD30293-3	SW846 8270E BY SIM	25-AUG-21 02:48	CS	23-AUG-21	NW	BLV8270SIMPAH
JD30293-3	SW846 8081B	25-AUG-21 03:57	CP	24-AUG-21	JL	P8081RCP
JD30293-3	SW846 7470A	25-AUG-21 14:24	LM	25-AUG-21	LM	HG
JD30293-3	SW846 8082A	25-AUG-21 18:27	CP	24-AUG-21	JL	P8082RCP
JD30293-3	CT-ETPH	26-AUG-21 02:18	CP	25-AUG-21	JL	BCTTPH
JD30293-3	SW846 8260D	27-AUG-21 20:53	EH			V8260RCP
JD30293-3	SW846 6020B	31-AUG-21 10:29	AFL	30-AUG-21	AFL	AGMS,ASMS,BAMS,BEMS,CDMS, CRMS,CUMS,NIMS,PBMS,SBMS, SEMS,TLMS,VMS,ZNMS

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD30293

43 Hempstead Street, New London, CT
Project No: 93203.15

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD30293-4 MW-5	Collected: 18-AUG-21 14:15 By: MC		Received: 19-AUG-21 By: MK			
JD30293-4	SW846 8270E BY SIM	25-AUG-21 03:11	CS	23-AUG-21	NW	BLV8270SIMPAH
JD30293-4	SW846 8081B	25-AUG-21 04:14	CP	24-AUG-21	JL	P8081RCP
JD30293-4	SW846 7470A	25-AUG-21 14:25	LM	25-AUG-21	LM	HG
JD30293-4	SW846 8082A	25-AUG-21 18:44	CP	24-AUG-21	JL	P8082RCP
JD30293-4	CT-ETPH	26-AUG-21 02:57	CP	25-AUG-21	JL	BCTTPH
JD30293-4	SW846 8260D	27-AUG-21 21:22	EH			V8260RCP
JD30293-4	SW846 6020B	31-AUG-21 10:32	AFL	30-AUG-21	AFL	AGMS,ASMS,BAMS,BEMS,CDMS, CRMS,CUMS,NIMS,PBMS,SBMS, SEMS,TLMS,VMS,ZNMS
JD30293-5 MW-6	Collected: 18-AUG-21 14:10 By: AE		Received: 19-AUG-21 By: MK			
JD30293-5	SW846 8270E BY SIM	25-AUG-21 01:38	CS	23-AUG-21	NW	BLV8270SIMPAH
JD30293-5	SW846 8081B	25-AUG-21 04:32	CP	24-AUG-21	JL	P8081RCP
JD30293-5	SW846 8082A	25-AUG-21 12:25	CP	24-AUG-21	JL	P8082RCP
JD30293-5	SW846 7470A	25-AUG-21 13:55	LM	25-AUG-21	LM	HG
JD30293-5	SW846 8270E BY SIM	25-AUG-21 21:06	KLS	23-AUG-21	NW	BLV8270SIMPAH
JD30293-5	CT-ETPH	26-AUG-21 03:35	CP	25-AUG-21	JL	BCTTPH
JD30293-5	SW846 8260D	27-AUG-21 18:29	EH			V8260RCP
JD30293-5	SW846 6020B	31-AUG-21 09:29	AFL	30-AUG-21	AFL	AGMS,ASMS,BAMS,BEMS,CDMS, CRMS,CUMS,NIMS,PBMS,SBMS, SEMS,TLMS,VMS,ZNMS
JD30293-6 MW-4	Collected: 19-AUG-21 10:15 By: MC		Received: 19-AUG-21 By: MK			
JD30293-6	SW846 8270E BY SIM	25-AUG-21 03:34	CS	23-AUG-21	NW	BLV8270SIMPAH
JD30293-6	SW846 8081B	25-AUG-21 06:37	CP	24-AUG-21	JL	P8081RCP
JD30293-6	SW846 7470A	25-AUG-21 14:30	LM	25-AUG-21	LM	HG
JD30293-6	SW846 8082A	25-AUG-21 19:02	CP	24-AUG-21	JL	P8082RCP
JD30293-6	CT-ETPH	26-AUG-21 05:31	CP	25-AUG-21	JL	BCTTPH
JD30293-6	SW846 8260D	27-AUG-21 18:58	EH			V8260RCP
JD30293-6	SW846 6020B	31-AUG-21 10:36	AFL	30-AUG-21	AFL	AGMS,ASMS,BAMS,BEMS,CDMS, CRMS,CUMS,NIMS,PBMS,SBMS, SEMS,TLMS,VMS,ZNMS

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD30293

43 Hempstead Street, New London, CT
Project No: 93203.15

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD30293-7 MW-1R	Collected: 19-AUG-21 10:15 By: AE		Received: 19-AUG-21 By: MK			
JD30293-7	SW846 8270E BY SIM	25-AUG-21 03:57	CS	23-AUG-21	NW	BLV8270SIMPAH
JD30293-7	SW846 8081B	25-AUG-21 06:55	CP	24-AUG-21	JL	P8081RCP
JD30293-7	SW846 7470A	25-AUG-21 14:31	LM	25-AUG-21	LM	HG
JD30293-7	SW846 8082A	25-AUG-21 19:19	CP	24-AUG-21	JL	P8082RCP
JD30293-7	CT-ETPH	26-AUG-21 06:09	CP	25-AUG-21	JL	BCTTPH
JD30293-7	SW846 8260D	27-AUG-21 19:27	EH			V8260RCP
JD30293-7	SW846 6020B	31-AUG-21 10:40	AFL	30-AUG-21	AFL	AGMS,ASMS,BAMS,BEMS,CDMS, CRMS,CUMS,NIMS,PBMS,SBMS, SEMS,TLMS,VMS,ZNMS
JD30293-8 TRIP BLANK	Collected: 19-AUG-21 10:15 By:		Received: 19-AUG-21 By: MK			
JD30293-8	SW846 8260D	27-AUG-21 18:00	EH			V8260RCP

QC Evaluation: CT RCP Limits

Job Number: JD30293
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V4D4993	SW846 8260D						
V4D4993-BS	67-64-1	Acetone	BSP	REC	97	%	70-130
V4D4993-BS	107-13-1	Acrylonitrile	BSP	REC	100	%	70-130
V4D4993-BS	71-43-2	Benzene	BSP	REC	94	%	70-130
V4D4993-BS	108-86-1	Bromobenzene	BSP	REC	94	%	70-130
V4D4993-BS	75-27-4	Bromodichloromethane	BSP	REC	86	%	70-130
V4D4993-BS	75-25-2	Bromoform	BSP	REC	92	%	70-130
V4D4993-BS	74-83-9	Bromomethane	BSP	REC	76	%	70-130
V4D4993-BS	78-93-3	2-Butanone (MEK)	BSP	REC	107	%	70-130
V4D4993-BS	104-51-8	n-Butylbenzene	BSP	REC	91	%	70-130
V4D4993-BS	135-98-8	sec-Butylbenzene	BSP	REC	89	%	70-130
V4D4993-BS	98-06-6	tert-Butylbenzene	BSP	REC	93	%	70-130
V4D4993-BS	75-15-0	Carbon disulfide	BSP	REC	92	%	70-130
V4D4993-BS	56-23-5	Carbon tetrachloride	BSP	REC	87	%	70-130
V4D4993-BS	108-90-7	Chlorobenzene	BSP	REC	89	%	70-130
V4D4993-BS	75-00-3	Chloroethane	BSP	REC	92	%	70-130
V4D4993-BS	67-66-3	Chloroform	BSP	REC	85	%	70-130
V4D4993-BS	74-87-3	Chloromethane	BSP	REC	95	%	70-130
V4D4993-BS	95-49-8	o-Chlorotoluene	BSP	REC	95	%	70-130
V4D4993-BS	106-43-4	p-Chlorotoluene	BSP	REC	84	%	70-130
V4D4993-BS	96-12-8	1,2-Dibromo-3-chloropropane	BSP	REC	90	%	70-130
V4D4993-BS	124-48-1	Dibromochloromethane	BSP	REC	88	%	70-130
V4D4993-BS	106-93-4	1,2-Dibromoethane	BSP	REC	96	%	70-130
V4D4993-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	92	%	70-130
V4D4993-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	92	%	70-130
V4D4993-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	91	%	70-130
V4D4993-BS	110-57-6	trans-1,4-Dichloro-2-Butene	BSP	REC	86	%	70-130
V4D4993-BS	75-71-8	Dichlorodifluoromethane	BSP	REC	90	%	70-130
V4D4993-BS	75-34-3	1,1-Dichloroethane	BSP	REC	100	%	70-130
V4D4993-BS	107-06-2	1,2-Dichloroethane	BSP	REC	83	%	70-130
V4D4993-BS	75-35-4	1,1-Dichloroethene	BSP	REC	89	%	70-130
V4D4993-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	89	%	70-130
V4D4993-BS	156-60-5	trans-1,2-Dichloroethene	BSP	REC	89	%	70-130
V4D4993-BS	78-87-5	1,2-Dichloropropane	BSP	REC	96	%	70-130
V4D4993-BS	142-28-9	1,3-Dichloropropane	BSP	REC	85	%	70-130
V4D4993-BS	594-20-7	2,2-Dichloropropane	BSP	REC	84	%	70-130
V4D4993-BS	563-58-6	1,1-Dichloropropene	BSP	REC	90	%	70-130
V4D4993-BS	10061-01-5	cis-1,3-Dichloropropene	BSP	REC	92	%	70-130
V4D4993-BS	10061-02-6	trans-1,3-Dichloropropene	BSP	REC	89	%	70-130
V4D4993-BS	100-41-4	Ethylbenzene	BSP	REC	87	%	70-130
V4D4993-BS	76-13-1	Freon 113	BSP	REC	90	%	70-130
V4D4993-BS	87-68-3	Hexachlorobutadiene	BSP	REC	96	%	70-130
V4D4993-BS	591-78-6	2-Hexanone	BSP	REC	95	%	70-130

* Sample used for QC is not from job JD30293

QC Evaluation: CT RCP Limits

Job Number: JD30293
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V4D4993-BS	98-82-8	Isopropylbenzene	BSP	REC	90	%	70-130
V4D4993-BS	99-87-6	p-Isopropyltoluene	BSP	REC	91	%	70-130
V4D4993-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	92	%	70-130
V4D4993-BS	108-10-1	4-Methyl-2-pentanone(MIBK)	BSP	REC	90	%	70-130
V4D4993-BS	74-95-3	Methylene bromide	BSP	REC	88	%	70-130
V4D4993-BS	75-09-2	Methylene chloride	BSP	REC	95	%	70-130
V4D4993-BS	91-20-3	Naphthalene	BSP	REC	95	%	70-130
V4D4993-BS	103-65-1	n-Propylbenzene	BSP	REC	89	%	70-130
V4D4993-BS	100-42-5	Styrene	BSP	REC	93	%	70-130
V4D4993-BS	630-20-6	1,1,1,2-Tetrachloroethane	BSP	REC	93	%	70-130
V4D4993-BS	79-34-5	1,1,2,2-Tetrachloroethane	BSP	REC	93	%	70-130
V4D4993-BS	127-18-4	Tetrachloroethene	BSP	REC	91	%	70-130
V4D4993-BS	109-99-9	Tetrahydrofuran	BSP	REC	88	%	70-130
V4D4993-BS	108-88-3	Toluene	BSP	REC	90	%	70-130
V4D4993-BS	87-61-6	1,2,3-Trichlorobenzene	BSP	REC	100	%	70-130
V4D4993-BS	120-82-1	1,2,4-Trichlorobenzene	BSP	REC	102	%	70-130
V4D4993-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	87	%	70-130
V4D4993-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	94	%	70-130
V4D4993-BS	79-01-6	Trichloroethene	BSP	REC	86	%	70-130
V4D4993-BS	75-69-4	Trichlorofluoromethane	BSP	REC	83	%	70-130
V4D4993-BS	96-18-4	1,2,3-Trichloropropane	BSP	REC	90	%	70-130
V4D4993-BS	95-63-6	1,2,4-Trimethylbenzene	BSP	REC	89	%	70-130
V4D4993-BS	108-67-8	1,3,5-Trimethylbenzene	BSP	REC	89	%	70-130
V4D4993-BS	75-01-4	Vinyl chloride	BSP	REC	94	%	70-130
V4D4993-BS		m,p-Xylene	BSP	REC	89	%	70-130
V4D4993-BS	95-47-6	o-Xylene	BSP	REC	92	%	70-130
V4D4993-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	100	%	70-130
V4D4993-BS	2037-26-5	Toluene-D8	BSP	SURR	98	%	70-130
V4D4993-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	94	%	70-130
JD30293-5MS	67-64-1	Acetone	MS	REC	99	%	70-130
JD30293-5MS	107-13-1	Acrylonitrile	MS	REC	99	%	70-130
JD30293-5MS	71-43-2	Benzene	MS	REC	107	%	70-130
JD30293-5MS	108-86-1	Bromobenzene	MS	REC	101	%	70-130
JD30293-5MS	75-27-4	Bromodichloromethane	MS	REC	94	%	70-130
JD30293-5MS	75-25-2	Bromoform	MS	REC	96	%	70-130
JD30293-5MS	74-83-9	Bromomethane	MS	REC	91	%	70-130
JD30293-5MS	78-93-3	2-Butanone (MEK)	MS	REC	111	%	70-130
JD30293-5MS	104-51-8	n-Butylbenzene	MS	REC	107	%	70-130
JD30293-5MS	135-98-8	sec-Butylbenzene	MS	REC	101	%	70-130
JD30293-5MS	98-06-6	tert-Butylbenzene	MS	REC	103	%	70-130
JD30293-5MS	75-15-0	Carbon disulfide	MS	REC	104	%	70-130
JD30293-5MS	56-23-5	Carbon tetrachloride	MS	REC	101	%	70-130
JD30293-5MS	108-90-7	Chlorobenzene	MS	REC	99	%	70-130
JD30293-5MS	75-00-3	Chloroethane	MS	REC	104	%	70-130
JD30293-5MS	67-66-3	Chloroform	MS	REC	93	%	70-130

* Sample used for QC is not from job JD30293

QC Evaluation: CT RCP Limits

Job Number: JD30293
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD30293-5MS	74-87-3	Chloromethane	MS	REC	105	%	70-130
JD30293-5MS	95-49-8	o-Chlorotoluene	MS	REC	104	%	70-130
JD30293-5MS	106-43-4	p-Chlorotoluene	MS	REC	92	%	70-130
JD30293-5MS	96-12-8	1,2-Dibromo-3-chloropropane	MS	REC	100	%	70-130
JD30293-5MS	124-48-1	Dibromochloromethane	MS	REC	93	%	70-130
JD30293-5MS	106-93-4	1,2-Dibromoethane	MS	REC	83	%	70-130
JD30293-5MS	95-50-1	1,2-Dichlorobenzene	MS	REC	102	%	70-130
JD30293-5MS	541-73-1	1,3-Dichlorobenzene	MS	REC	100	%	70-130
JD30293-5MS	106-46-7	1,4-Dichlorobenzene	MS	REC	100	%	70-130
JD30293-5MS	110-57-6	trans-1,4-Dichloro-2-Butene	MS	REC	92	%	70-130
JD30293-5MS	75-71-8	Dichlorodifluoromethane	MS	REC	104	%	70-130
JD30293-5MS	75-34-3	1,1-Dichloroethane	MS	REC	111	%	70-130
JD30293-5MS	107-06-2	1,2-Dichloroethane	MS	REC	90	%	70-130
JD30293-5MS	75-35-4	1,1-Dichloroethene	MS	REC	102	%	70-130
JD30293-5MS	156-59-2	cis-1,2-Dichloroethene	MS	REC	98	%	70-130
JD30293-5MS	156-60-5	trans-1,2-Dichloroethene	MS	REC	101	%	70-130
JD30293-5MS	78-87-5	1,2-Dichloropropane	MS	REC	105	%	70-130
JD30293-5MS	142-28-9	1,3-Dichloropropane	MS	REC	90	%	70-130
JD30293-5MS	594-20-7	2,2-Dichloropropane	MS	REC	101	%	70-130
JD30293-5MS	563-58-6	1,1-Dichloropropene	MS	REC	106	%	70-130
JD30293-5MS	10061-01-5	cis-1,3-Dichloropropene	MS	REC	102	%	70-130
JD30293-5MS	10061-02-6	trans-1,3-Dichloropropene	MS	REC	95	%	70-130
JD30293-5MS	100-41-4	Ethylbenzene	MS	REC	99	%	70-130
JD30293-5MS	76-13-1	Freon 113	MS	REC	106	%	70-130
JD30293-5MS	87-68-3	Hexachlorobutadiene	MS	REC	117	%	70-130
JD30293-5MS	591-78-6	2-Hexanone	MS	REC	98	%	70-130
JD30293-5MS	98-82-8	Isopropylbenzene	MS	REC	101	%	70-130
JD30293-5MS	99-87-6	p-Isopropyltoluene	MS	REC	103	%	70-130
JD30293-5MS	1634-04-4	Methyl Tert Butyl Ether	MS	REC	97	%	70-130
JD30293-5MS	108-10-1	4-Methyl-2-pentanone(MIBK)	MS	REC	97	%	70-130
JD30293-5MS	74-95-3	Methylene bromide	MS	REC	93	%	70-130
JD30293-5MS	75-09-2	Methylene chloride	MS	REC	102	%	70-130
JD30293-5MS	91-20-3	Naphthalene	MS	REC	115	%	70-130
JD30293-5MS	103-65-1	n-Propylbenzene	MS	REC	100	%	70-130
JD30293-5MS	100-42-5	Styrene	MS	REC	102	%	70-130
JD30293-5MS	630-20-6	1,1,1,2-Tetrachloroethane	MS	REC	103	%	70-130
JD30293-5MS	79-34-5	1,1,2,2-Tetrachloroethane	MS	REC	96	%	70-130
JD30293-5MS	127-18-4	Tetrachloroethene	MS	REC	104	%	70-130
JD30293-5MS	109-99-9	Tetrahydrofuran	MS	REC	93	%	70-130
JD30293-5MS	108-88-3	Toluene	MS	REC	100	%	70-130
JD30293-5MS	87-61-6	1,2,3-Trichlorobenzene	MS	REC	116	%	70-130
JD30293-5MS	120-82-1	1,2,4-Trichlorobenzene	MS	REC	120	%	70-130
JD30293-5MS	71-55-6	1,1,1-Trichloroethane	MS	REC	102	%	70-130
JD30293-5MS	79-00-5	1,1,2-Trichloroethane	MS	REC	98	%	70-130
JD30293-5MS	79-01-6	Trichloroethene	MS	REC	99	%	70-130

* Sample used for QC is not from job JD30293

QC Evaluation: CT RCP Limits

Job Number: JD30293
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD30293-5MS	75-69-4	Trichlorofluoromethane	MS	REC	98	%	70-130
JD30293-5MS	96-18-4	1,2,3-Trichloropropane	MS	REC	96	%	70-130
JD30293-5MS	95-63-6	1,2,4-Trimethylbenzene	MS	REC	99	%	70-130
JD30293-5MS	108-67-8	1,3,5-Trimethylbenzene	MS	REC	99	%	70-130
JD30293-5MS	75-01-4	Vinyl chloride	MS	REC	106	%	70-130
JD30293-5MS		m,p-Xylene	MS	REC	102	%	70-130
JD30293-5MS	95-47-6	o-Xylene	MS	REC	103	%	70-130
JD30293-5MS	1868-53-7	Dibromofluoromethane	MS	SURR	99	%	70-130
JD30293-5MS	2037-26-5	Toluene-D8	MS	SURR	97	%	70-130
JD30293-5MS	460-00-4	4-Bromofluorobenzene	MS	SURR	93	%	70-130
JD30293-5MSD	67-64-1	Acetone	MSD	REC	94	%	70-130
JD30293-5MSD	67-64-1	Acetone	MSD	RPD	6	%	30
JD30293-5MSD	107-13-1	Acrylonitrile	MSD	REC	100	%	70-130
JD30293-5MSD	107-13-1	Acrylonitrile	MSD	RPD	1	%	30
JD30293-5MSD	71-43-2	Benzene	MSD	REC	98	%	70-130
JD30293-5MSD	71-43-2	Benzene	MSD	RPD	9	%	30
JD30293-5MSD	108-86-1	Bromobenzene	MSD	REC	92	%	70-130
JD30293-5MSD	108-86-1	Bromobenzene	MSD	RPD	9	%	30
JD30293-5MSD	75-27-4	Bromodichloromethane	MSD	REC	86	%	70-130
JD30293-5MSD	75-27-4	Bromodichloromethane	MSD	RPD	9	%	30
JD30293-5MSD	75-25-2	Bromoform	MSD	REC	90	%	70-130
JD30293-5MSD	75-25-2	Bromoform	MSD	RPD	7	%	30
JD30293-5MSD	74-83-9	Bromomethane	MSD	REC	100	%	70-130
JD30293-5MSD	74-83-9	Bromomethane	MSD	RPD	10	%	30
JD30293-5MSD	78-93-3	2-Butanone (MEK)	MSD	REC	105	%	70-130
JD30293-5MSD	78-93-3	2-Butanone (MEK)	MSD	RPD	5	%	30
JD30293-5MSD	104-51-8	n-Butylbenzene	MSD	REC	97	%	70-130
JD30293-5MSD	104-51-8	n-Butylbenzene	MSD	RPD	10	%	30
JD30293-5MSD	135-98-8	sec-Butylbenzene	MSD	REC	94	%	70-130
JD30293-5MSD	135-98-8	sec-Butylbenzene	MSD	RPD	8	%	30
JD30293-5MSD	98-06-6	tert-Butylbenzene	MSD	REC	97	%	70-130
JD30293-5MSD	98-06-6	tert-Butylbenzene	MSD	RPD	6	%	30
JD30293-5MSD	75-15-0	Carbon disulfide	MSD	REC	96	%	70-130
JD30293-5MSD	75-15-0	Carbon disulfide	MSD	RPD	8	%	30
JD30293-5MSD	56-23-5	Carbon tetrachloride	MSD	REC	93	%	70-130
JD30293-5MSD	56-23-5	Carbon tetrachloride	MSD	RPD	8	%	30
JD30293-5MSD	108-90-7	Chlorobenzene	MSD	REC	91	%	70-130
JD30293-5MSD	108-90-7	Chlorobenzene	MSD	RPD	8	%	30
JD30293-5MSD	75-00-3	Chloroethane	MSD	REC	114	%	70-130
JD30293-5MSD	75-00-3	Chloroethane	MSD	RPD	10	%	30
JD30293-5MSD	67-66-3	Chloroform	MSD	REC	86	%	70-130
JD30293-5MSD	67-66-3	Chloroform	MSD	RPD	8	%	30
JD30293-5MSD	74-87-3	Chloromethane	MSD	REC	113	%	70-130
JD30293-5MSD	74-87-3	Chloromethane	MSD	RPD	8	%	30
JD30293-5MSD	95-49-8	o-Chlorotoluene	MSD	REC	96	%	70-130

* Sample used for QC is not from job JD30293

QC Evaluation: CT RCP Limits

Job Number: JD30293
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD30293-5MSD	95-49-8	o-Chlorotoluene	MSD	RPD	8	%	30
JD30293-5MSD	106-43-4	p-Chlorotoluene	MSD	REC	84	%	70-130
JD30293-5MSD	106-43-4	p-Chlorotoluene	MSD	RPD	9	%	30
JD30293-5MSD	96-12-8	1,2-Dibromo-3-chloropropane	MSD	REC	87	%	70-130
JD30293-5MSD	96-12-8	1,2-Dibromo-3-chloropropane	MSD	RPD	14	%	30
JD30293-5MSD	124-48-1	Dibromochloromethane	MSD	REC	86	%	70-130
JD30293-5MSD	124-48-1	Dibromochloromethane	MSD	RPD	7	%	30
JD30293-5MSD	106-93-4	1,2-Dibromoethane	MSD	REC	78	%	70-130
JD30293-5MSD	106-93-4	1,2-Dibromoethane	MSD	RPD	6	%	30
JD30293-5MSD	95-50-1	1,2-Dichlorobenzene	MSD	REC	92	%	70-130
JD30293-5MSD	95-50-1	1,2-Dichlorobenzene	MSD	RPD	11 [a]	%	30
JD30293-5MSD	541-73-1	1,3-Dichlorobenzene	MSD	REC	93	%	70-130
JD30293-5MSD	541-73-1	1,3-Dichlorobenzene	MSD	RPD	8	%	30
JD30293-5MSD	106-46-7	1,4-Dichlorobenzene	MSD	REC	91	%	70-130
JD30293-5MSD	106-46-7	1,4-Dichlorobenzene	MSD	RPD	9	%	30
JD30293-5MSD	110-57-6	trans-1,4-Dichloro-2-Butene	MSD	REC	83	%	70-130
JD30293-5MSD	110-57-6	trans-1,4-Dichloro-2-Butene	MSD	RPD	11	%	30
JD30293-5MSD	75-71-8	Dichlorodifluoromethane	MSD	REC	110	%	70-130
JD30293-5MSD	75-71-8	Dichlorodifluoromethane	MSD	RPD	6	%	30
JD30293-5MSD	75-34-3	1,1-Dichloroethane	MSD	REC	104	%	70-130
JD30293-5MSD	75-34-3	1,1-Dichloroethane	MSD	RPD	7	%	30
JD30293-5MSD	107-06-2	1,2-Dichloroethane	MSD	REC	83	%	70-130
JD30293-5MSD	107-06-2	1,2-Dichloroethane	MSD	RPD	9	%	30
JD30293-5MSD	75-35-4	1,1-Dichloroethene	MSD	REC	95	%	70-130
JD30293-5MSD	75-35-4	1,1-Dichloroethene	MSD	RPD	7	%	30
JD30293-5MSD	156-59-2	cis-1,2-Dichloroethene	MSD	REC	90	%	70-130
JD30293-5MSD	156-59-2	cis-1,2-Dichloroethene	MSD	RPD	8	%	30
JD30293-5MSD	156-60-5	trans-1,2-Dichloroethene	MSD	REC	92	%	70-130
JD30293-5MSD	156-60-5	trans-1,2-Dichloroethene	MSD	RPD	10	%	30
JD30293-5MSD	78-87-5	1,2-Dichloropropane	MSD	REC	100	%	70-130
JD30293-5MSD	78-87-5	1,2-Dichloropropane	MSD	RPD	5	%	30
JD30293-5MSD	142-28-9	1,3-Dichloropropane	MSD	REC	84	%	70-130
JD30293-5MSD	142-28-9	1,3-Dichloropropane	MSD	RPD	6	%	30
JD30293-5MSD	594-20-7	2,2-Dichloropropane	MSD	REC	92	%	70-130
JD30293-5MSD	594-20-7	2,2-Dichloropropane	MSD	RPD	8	%	30
JD30293-5MSD	563-58-6	1,1-Dichloropropene	MSD	REC	99	%	70-130
JD30293-5MSD	563-58-6	1,1-Dichloropropene	MSD	RPD	7	%	30
JD30293-5MSD	10061-01-5	cis-1,3-Dichloropropene	MSD	REC	96	%	70-130
JD30293-5MSD	10061-01-5	cis-1,3-Dichloropropene	MSD	RPD	6	%	30
JD30293-5MSD	10061-02-6	trans-1,3-Dichloropropene	MSD	REC	89	%	70-130
JD30293-5MSD	10061-02-6	trans-1,3-Dichloropropene	MSD	RPD	6	%	30
JD30293-5MSD	100-41-4	Ethylbenzene	MSD	REC	92	%	70-130
JD30293-5MSD	100-41-4	Ethylbenzene	MSD	RPD	7	%	30
JD30293-5MSD	76-13-1	Freon 113	MSD	REC	97	%	70-130
JD30293-5MSD	76-13-1	Freon 113	MSD	RPD	9	%	30

* Sample used for QC is not from job JD30293

QC Evaluation: CT RCP Limits

Job Number: JD30293
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD30293-5MSD	87-68-3	Hexachlorobutadiene	MSD	REC	103	%	70-130
JD30293-5MSD	87-68-3	Hexachlorobutadiene	MSD	RPD	12	%	30
JD30293-5MSD	591-78-6	2-Hexanone	MSD	REC	94	%	70-130
JD30293-5MSD	591-78-6	2-Hexanone	MSD	RPD	4	%	30
JD30293-5MSD	98-82-8	Isopropylbenzene	MSD	REC	95	%	70-130
JD30293-5MSD	98-82-8	Isopropylbenzene	MSD	RPD	6	%	30
JD30293-5MSD	99-87-6	p-Isopropyltoluene	MSD	REC	95	%	70-130
JD30293-5MSD	99-87-6	p-Isopropyltoluene	MSD	RPD	8	%	30
JD30293-5MSD	1634-04-4	Methyl Tert Butyl Ether	MSD	REC	90	%	70-130
JD30293-5MSD	1634-04-4	Methyl Tert Butyl Ether	MSD	RPD	8	%	30
JD30293-5MSD	108-10-1	4-Methyl-2-pentanone(MIBK)	MSD	REC	91	%	70-130
JD30293-5MSD	108-10-1	4-Methyl-2-pentanone(MIBK)	MSD	RPD	6	%	30
JD30293-5MSD	74-95-3	Methylene bromide	MSD	REC	87	%	70-130
JD30293-5MSD	74-95-3	Methylene bromide	MSD	RPD	7	%	30
JD30293-5MSD	75-09-2	Methylene chloride	MSD	REC	94	%	70-130
JD30293-5MSD	75-09-2	Methylene chloride	MSD	RPD	8	%	30
JD30293-5MSD	91-20-3	Naphthalene	MSD	REC	102	%	70-130
JD30293-5MSD	91-20-3	Naphthalene	MSD	RPD	8	%	30
JD30293-5MSD	103-65-1	n-Propylbenzene	MSD	REC	92	%	70-130
JD30293-5MSD	103-65-1	n-Propylbenzene	MSD	RPD	9	%	30
JD30293-5MSD	100-42-5	Styrene	MSD	REC	95	%	70-130
JD30293-5MSD	100-42-5	Styrene	MSD	RPD	7	%	30
JD30293-5MSD	630-20-6	1,1,1,2-Tetrachloroethane	MSD	REC	95	%	70-130
JD30293-5MSD	630-20-6	1,1,1,2-Tetrachloroethane	MSD	RPD	8	%	30
JD30293-5MSD	79-34-5	1,1,2,2-Tetrachloroethane	MSD	REC	87	%	70-130
JD30293-5MSD	79-34-5	1,1,2,2-Tetrachloroethane	MSD	RPD	10	%	30
JD30293-5MSD	127-18-4	Tetrachloroethene	MSD	REC	97	%	70-130
JD30293-5MSD	127-18-4	Tetrachloroethene	MSD	RPD	6	%	30
JD30293-5MSD	109-99-9	Tetrahydrofuran	MSD	REC	88	%	70-130
JD30293-5MSD	109-99-9	Tetrahydrofuran	MSD	RPD	6	%	30
JD30293-5MSD	108-88-3	Toluene	MSD	REC	95	%	70-130
JD30293-5MSD	108-88-3	Toluene	MSD	RPD	6	%	30
JD30293-5MSD	87-61-6	1,2,3-Trichlorobenzene	MSD	REC	106	%	70-130
JD30293-5MSD	87-61-6	1,2,3-Trichlorobenzene	MSD	RPD	9	%	30
JD30293-5MSD	120-82-1	1,2,4-Trichlorobenzene	MSD	REC	109	%	70-130
JD30293-5MSD	120-82-1	1,2,4-Trichlorobenzene	MSD	RPD	10	%	30
JD30293-5MSD	71-55-6	1,1,1-Trichloroethane	MSD	REC	93	%	70-130
JD30293-5MSD	71-55-6	1,1,1-Trichloroethane	MSD	RPD	9	%	30
JD30293-5MSD	79-00-5	1,1,2-Trichloroethane	MSD	REC	93	%	70-130
JD30293-5MSD	79-00-5	1,1,2-Trichloroethane	MSD	RPD	5	%	30
JD30293-5MSD	79-01-6	Trichloroethene	MSD	REC	92	%	70-130
JD30293-5MSD	79-01-6	Trichloroethene	MSD	RPD	7	%	30
JD30293-5MSD	75-69-4	Trichlorofluoromethane	MSD	REC	104	%	70-130
JD30293-5MSD	75-69-4	Trichlorofluoromethane	MSD	RPD	7	%	30
JD30293-5MSD	96-18-4	1,2,3-Trichloropropane	MSD	REC	85	%	70-130

* Sample used for QC is not from job JD30293

QC Evaluation: CT RCP Limits

Job Number: JD30293
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD30293-5MSD	96-18-4	1,2,3-Trichloropropane	MSD	RPD	12	%	30
JD30293-5MSD	95-63-6	1,2,4-Trimethylbenzene	MSD	REC	91	%	70-130
JD30293-5MSD	95-63-6	1,2,4-Trimethylbenzene	MSD	RPD	8	%	30
JD30293-5MSD	108-67-8	1,3,5-Trimethylbenzene	MSD	REC	90	%	70-130
JD30293-5MSD	108-67-8	1,3,5-Trimethylbenzene	MSD	RPD	9	%	30
JD30293-5MSD	75-01-4	Vinyl chloride	MSD	REC	115	%	70-130
JD30293-5MSD	75-01-4	Vinyl chloride	MSD	RPD	8	%	30
JD30293-5MSD		m,p-Xylene	MSD	REC	94	%	70-130
JD30293-5MSD		m,p-Xylene	MSD	RPD	8	%	30
JD30293-5MSD	95-47-6	o-Xylene	MSD	REC	95	%	70-130
JD30293-5MSD	95-47-6	o-Xylene	MSD	RPD	8	%	30
JD30293-5MSD	1868-53-7	Dibromofluoromethane	MSD	SURR	100	%	70-130
JD30293-5MSD	2037-26-5	Toluene-D8	MSD	SURR	99	%	70-130
JD30293-5MSD	460-00-4	4-Bromofluorobenzene	MSD	SURR	92	%	70-130
V4D4993-MB	1868-53-7	Dibromofluoromethane	MB	SURR	100	%	70-130
V4D4993-MB	2037-26-5	Toluene-D8	MB	SURR	103	%	70-130
V4D4993-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	93	%	70-130
JD30293-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	100	%	70-130
JD30293-1	2037-26-5	Toluene-D8	SAMP	SURR	99	%	70-130
JD30293-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	90	%	70-130
JD30293-2	1868-53-7	Dibromofluoromethane	SAMP	SURR	99	%	70-130
JD30293-2	2037-26-5	Toluene-D8	SAMP	SURR	98	%	70-130
JD30293-2	460-00-4	4-Bromofluorobenzene	SAMP	SURR	93	%	70-130
JD30293-3	1868-53-7	Dibromofluoromethane	SAMP	SURR	99	%	70-130
JD30293-3	2037-26-5	Toluene-D8	SAMP	SURR	97	%	70-130
JD30293-3	460-00-4	4-Bromofluorobenzene	SAMP	SURR	92	%	70-130
JD30293-4	1868-53-7	Dibromofluoromethane	SAMP	SURR	100	%	70-130
JD30293-4	2037-26-5	Toluene-D8	SAMP	SURR	98	%	70-130
JD30293-4	460-00-4	4-Bromofluorobenzene	SAMP	SURR	93	%	70-130
JD30293-5	1868-53-7	Dibromofluoromethane	SAMP	SURR	101	%	70-130
JD30293-5	2037-26-5	Toluene-D8	SAMP	SURR	101	%	70-130
JD30293-5	460-00-4	4-Bromofluorobenzene	SAMP	SURR	93	%	70-130
JD30293-6	1868-53-7	Dibromofluoromethane	SAMP	SURR	100	%	70-130
JD30293-6	2037-26-5	Toluene-D8	SAMP	SURR	99	%	70-130
JD30293-6	460-00-4	4-Bromofluorobenzene	SAMP	SURR	92	%	70-130
JD30293-7	1868-53-7	Dibromofluoromethane	SAMP	SURR	100	%	70-130
JD30293-7	2037-26-5	Toluene-D8	SAMP	SURR	98	%	70-130
JD30293-7	460-00-4	4-Bromofluorobenzene	SAMP	SURR	95	%	70-130
JD30293-8	1868-53-7	Dibromofluoromethane	SAMP	SURR	99	%	70-130
JD30293-8	2037-26-5	Toluene-D8	SAMP	SURR	101	%	70-130
JD30293-8	460-00-4	4-Bromofluorobenzene	SAMP	SURR	94	%	70-130
OP35038A	SW846 8270E BY SIM						
OP35038A-BS12	83-32-9	Acenaphthene	BSP	REC	78	%	40-140

* Sample used for QC is not from job JD30293

QC Evaluation: CT RCP Limits

Job Number: JD30293
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP35038A-BS12	208-96-8	Acenaphthylene	BSP	REC	75	%	40-140
OP35038A-BS12	120-12-7	Anthracene	BSP	REC	86	%	40-140
OP35038A-BS12	56-55-3	Benzo(a)anthracene	BSP	REC	108	%	40-140
OP35038A-BS12	50-32-8	Benzo(a)pyrene	BSP	REC	78	%	40-140
OP35038A-BS12	205-99-2	Benzo(b)fluoranthene	BSP	REC	105	%	40-140
OP35038A-BS12	191-24-2	Benzo(g,h,i)perylene	BSP	REC	92	%	40-140
OP35038A-BS12	207-08-9	Benzo(k)fluoranthene	BSP	REC	80	%	40-140
OP35038A-BS12	218-01-9	Chrysene	BSP	REC	92	%	40-140
OP35038A-BS12	53-70-3	Dibenzo(a,h)anthracene	BSP	REC	96	%	40-140
OP35038A-BS12	206-44-0	Fluoranthene	BSP	REC	73	%	40-140
OP35038A-BS12	86-73-7	Fluorene	BSP	REC	81	%	40-140
OP35038A-BS12	193-39-5	Indeno(1,2,3-cd)pyrene	BSP	REC	96	%	40-140
OP35038A-BS12	91-20-3	Naphthalene	BSP	REC	82	%	40-140
OP35038A-BS12	85-01-8	Phenanthrene	BSP	REC	82	%	40-140
OP35038A-BS12	129-00-0	Pyrene	BSP	REC	86	%	40-140
OP35038A-BS12	4165-60-0	Nitrobenzene-d5	BSP	SURR	93	%	30-130
OP35038A-BS12	321-60-8	2-Fluorobiphenyl	BSP	SURR	78	%	30-130
OP35038A-BS12	1718-51-0	Terphenyl-d14	BSP	SURR	87	%	30-130
OP35038A-BSD12	83-32-9	Acenaphthene	BSD	REC	89	%	40-140
OP35038A-BSD12	83-32-9	Acenaphthene	BSD	RPD	12	%	20
OP35038A-BSD12	208-96-8	Acenaphthylene	BSD	REC	86	%	40-140
OP35038A-BSD12	208-96-8	Acenaphthylene	BSD	RPD	13	%	20
OP35038A-BSD12	120-12-7	Anthracene	BSD	REC	106	%	40-140
OP35038A-BSD12	120-12-7	Anthracene	BSD	RPD	21	%	20
OP35038A-BSD12	56-55-3	Benzo(a)anthracene	BSD	REC	120	%	40-140
OP35038A-BSD12	56-55-3	Benzo(a)anthracene	BSD	RPD	11	%	20
OP35038A-BSD12	50-32-8	Benzo(a)pyrene	BSD	REC	85	%	40-140
OP35038A-BSD12	50-32-8	Benzo(a)pyrene	BSD	RPD	9	%	20
OP35038A-BSD12	205-99-2	Benzo(b)fluoranthene	BSD	REC	106	%	40-140
OP35038A-BSD12	205-99-2	Benzo(b)fluoranthene	BSD	RPD	1	%	20
OP35038A-BSD12	191-24-2	Benzo(g,h,i)perylene	BSD	REC	102	%	40-140
OP35038A-BSD12	191-24-2	Benzo(g,h,i)perylene	BSD	RPD	11	%	20
OP35038A-BSD12	207-08-9	Benzo(k)fluoranthene	BSD	REC	96	%	40-140
OP35038A-BSD12	207-08-9	Benzo(k)fluoranthene	BSD	RPD	18	%	20
OP35038A-BSD12	218-01-9	Chrysene	BSD	REC	100	%	40-140
OP35038A-BSD12	218-01-9	Chrysene	BSD	RPD	9	%	20
OP35038A-BSD12	53-70-3	Dibenzo(a,h)anthracene	BSD	REC	107	%	40-140
OP35038A-BSD12	53-70-3	Dibenzo(a,h)anthracene	BSD	RPD	11	%	20
OP35038A-BSD12	206-44-0	Fluoranthene	BSD	REC	80	%	40-140
OP35038A-BSD12	206-44-0	Fluoranthene	BSD	RPD	9	%	20
OP35038A-BSD12	86-73-7	Fluorene	BSD	REC	93	%	40-140
OP35038A-BSD12	86-73-7	Fluorene	BSD	RPD	14	%	20
OP35038A-BSD12	193-39-5	Indeno(1,2,3-cd)pyrene	BSD	REC	105	%	40-140
OP35038A-BSD12	193-39-5	Indeno(1,2,3-cd)pyrene	BSD	RPD	10	%	20
OP35038A-BSD12	91-20-3	Naphthalene	BSD	REC	85	%	40-140

* Sample used for QC is not from job JD30293

QC Evaluation: CT RCP Limits

Job Number: JD30293
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP35038A-BSD12	91-20-3	Naphthalene	BSD	RPD	4	%	20
OP35038A-BSD12	85-01-8	Phenanthrene	BSD	REC	91	%	40-140
OP35038A-BSD12	85-01-8	Phenanthrene	BSD	RPD	10	%	20
OP35038A-BSD12	129-00-0	Pyrene	BSD	REC	93	%	40-140
OP35038A-BSD12	129-00-0	Pyrene	BSD	RPD	8	%	20
OP35038A-BSD12	4165-60-0	Nitrobenzene-d5	BSD	SURR	93	%	30-130
OP35038A-BSD12	321-60-8	2-Fluorobiphenyl	BSD	SURR	84	%	30-130
OP35038A-BSD12	1718-51-0	Terphenyl-d14	BSD	SURR	94	%	30-130
OP35038A-MSA	83-32-9	Acenaphthene	MS	REC	83	%	40-140
OP35038A-MSA	208-96-8	Acenaphthylene	MS	REC	89	%	40-140
OP35038A-MSA	120-12-7	Anthracene	MS	REC	90	%	40-140
OP35038A-MSA	56-55-3	Benzo(a)anthracene	MS	REC	114	%	40-140
OP35038A-MSA	50-32-8	Benzo(a)pyrene	MS	REC	79	%	40-140
OP35038A-MSA	205-99-2	Benzo(b)fluoranthene	MS	REC	103	%	40-140
OP35038A-MSA	191-24-2	Benzo(g,h,i)perylene	MS	REC	85	%	40-140
OP35038A-MSA	207-08-9	Benzo(k)fluoranthene	MS	REC	84	%	40-140
OP35038A-MSA	218-01-9	Chrysene	MS	REC	94	%	40-140
OP35038A-MSA	53-70-3	Dibenzo(a,h)anthracene	MS	REC	81	%	40-140
OP35038A-MSA	206-44-0	Fluoranthene	MS	REC	76	%	40-140
OP35038A-MSA	86-73-7	Fluorene	MS	REC	85	%	40-140
OP35038A-MSA	193-39-5	Indeno(1,2,3-cd)pyrene	MS	REC	86	%	40-140
OP35038A-MSA	91-20-3	Naphthalene	MS	REC	63	%	40-140
OP35038A-MSA	85-01-8	Phenanthrene	MS	REC	87	%	40-140
OP35038A-MSA	129-00-0	Pyrene	MS	REC	93	%	40-140
OP35038A-MSA	4165-60-0	Nitrobenzene-d5	MS	SURR	94	%	30-130
OP35038A-MSA	321-60-8	2-Fluorobiphenyl	MS	SURR	83	%	30-130
OP35038A-MSA	1718-51-0	Terphenyl-d14	MS	SURR	84	%	30-130
OP35038A-MSDA	83-32-9	Acenaphthene	MSD	REC	70	%	40-140
OP35038A-MSDA	83-32-9	Acenaphthene	MSD	RPD	12	%	20
OP35038A-MSDA	208-96-8	Acenaphthylene	MSD	REC	69	%	40-140
OP35038A-MSDA	208-96-8	Acenaphthylene	MSD	RPD	14	%	20
OP35038A-MSDA	120-12-7	Anthracene	MSD	REC	91	%	40-140
OP35038A-MSDA	120-12-7	Anthracene	MSD	RPD	2	%	20
OP35038A-MSDA	56-55-3	Benzo(a)anthracene	MSD	REC	103	%	40-140
OP35038A-MSDA	56-55-3	Benzo(a)anthracene	MSD	RPD	14	%	20
OP35038A-MSDA	50-32-8	Benzo(a)pyrene	MSD	REC	72	%	40-140
OP35038A-MSDA	50-32-8	Benzo(a)pyrene	MSD	RPD	13	%	20
OP35038A-MSDA	205-99-2	Benzo(b)fluoranthene	MSD	REC	93	%	40-140
OP35038A-MSDA	205-99-2	Benzo(b)fluoranthene	MSD	RPD	15	%	20
OP35038A-MSDA	191-24-2	Benzo(g,h,i)perylene	MSD	REC	77	%	40-140
OP35038A-MSDA	191-24-2	Benzo(g,h,i)perylene	MSD	RPD	13	%	20
OP35038A-MSDA	207-08-9	Benzo(k)fluoranthene	MSD	REC	78	%	40-140
OP35038A-MSDA	207-08-9	Benzo(k)fluoranthene	MSD	RPD	11	%	20
OP35038A-MSDA	218-01-9	Chrysene	MSD	REC	86	%	40-140
OP35038A-MSDA	218-01-9	Chrysene	MSD	RPD	12	%	20

* Sample used for QC is not from job JD30293

QC Evaluation: CT RCP Limits

Job Number: JD30293
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP35038A-MSDA	53-70-3	Dibenzo(a,h)anthracene	MSD	REC	76	%	40-140
OP35038A-MSDA	53-70-3	Dibenzo(a,h)anthracene	MSD	RPD	11	%	20
OP35038A-MSDA	206-44-0	Fluoranthene	MSD	REC	68	%	40-140
OP35038A-MSDA	206-44-0	Fluoranthene	MSD	RPD	11	%	20
OP35038A-MSDA	86-73-7	Fluorene	MSD	REC	66	%	40-140
OP35038A-MSDA	86-73-7	Fluorene	MSD	RPD	15	%	20
OP35038A-MSDA	193-39-5	Indeno(1,2,3-cd)pyrene	MSD	REC	79	%	40-140
OP35038A-MSDA	193-39-5	Indeno(1,2,3-cd)pyrene	MSD	RPD	13	%	20
OP35038A-MSDA	91-20-3	Naphthalene	MSD	REC	-52 [b]	%	40-140
OP35038A-MSDA	91-20-3	Naphthalene	MSD	RPD	9	%	20
OP35038A-MSDA	85-01-8	Phenanthrene	MSD	REC	59	%	40-140
OP35038A-MSDA	85-01-8	Phenanthrene	MSD	RPD	16	%	20
OP35038A-MSDA	129-00-0	Pyrene	MSD	REC	86	%	40-140
OP35038A-MSDA	129-00-0	Pyrene	MSD	RPD	10	%	20
OP35038A-MSDA	4165-60-0	Nitrobenzene-d5	MSD	SURR	88	%	30-130
OP35038A-MSDA	321-60-8	2-Fluorobiphenyl	MSD	SURR	75	%	30-130
OP35038A-MSDA	1718-51-0	Terphenyl-d14	MSD	SURR	75	%	30-130
OP35038A-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	74	%	30-130
OP35038A-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	87	%	30-130
OP35038A-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	75	%	30-130
OP35038A-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	74	%	30-130
OP35038A-MB1	1718-51-0	Terphenyl-d14	MB	SURR	94	%	30-130
OP35038A-MB1	1718-51-0	Terphenyl-d14	MB	SURR	85	%	30-130
JD30293-1	4165-60-0	Nitrobenzene-d5	SAMP	SURR	78	%	30-130
JD30293-1	321-60-8	2-Fluorobiphenyl	SAMP	SURR	71	%	30-130
JD30293-1	1718-51-0	Terphenyl-d14	SAMP	SURR	74	%	30-130
JD30293-2	4165-60-0	Nitrobenzene-d5	SAMP	SURR	81	%	30-130
JD30293-2	321-60-8	2-Fluorobiphenyl	SAMP	SURR	73	%	30-130
JD30293-2	1718-51-0	Terphenyl-d14	SAMP	SURR	69	%	30-130
JD30293-3	4165-60-0	Nitrobenzene-d5	SAMP	SURR	86	%	30-130
JD30293-3	321-60-8	2-Fluorobiphenyl	SAMP	SURR	77	%	30-130
JD30293-3	1718-51-0	Terphenyl-d14	SAMP	SURR	79	%	30-130
JD30293-4	4165-60-0	Nitrobenzene-d5	SAMP	SURR	88	%	30-130
JD30293-4	321-60-8	2-Fluorobiphenyl	SAMP	SURR	82	%	30-130
JD30293-4	1718-51-0	Terphenyl-d14	SAMP	SURR	85	%	30-130
JD30293-5	4165-60-0	Nitrobenzene-d5	SAMP	SURR	57	%	30-130
JD30293-5	4165-60-0	Nitrobenzene-d5	SAMP	SURR	89	%	30-130
JD30293-5	321-60-8	2-Fluorobiphenyl	SAMP	SURR	50	%	30-130
JD30293-5	321-60-8	2-Fluorobiphenyl	SAMP	SURR	77	%	30-130
JD30293-5	1718-51-0	Terphenyl-d14	SAMP	SURR	53	%	30-130
JD30293-5	1718-51-0	Terphenyl-d14	SAMP	SURR	81	%	30-130
JD30293-6	4165-60-0	Nitrobenzene-d5	SAMP	SURR	71	%	30-130
JD30293-6	321-60-8	2-Fluorobiphenyl	SAMP	SURR	65	%	30-130
JD30293-6	1718-51-0	Terphenyl-d14	SAMP	SURR	71	%	30-130
JD30293-7	4165-60-0	Nitrobenzene-d5	SAMP	SURR	76	%	30-130

* Sample used for QC is not from job JD30293

QC Evaluation: CT RCP Limits

Job Number: JD30293
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD30293-7	321-60-8	2-Fluorobiphenyl	SAMP	SURR	70	%	30-130
JD30293-7	1718-51-0	Terphenyl-d14	SAMP	SURR	83	%	30-130
OP35043	SW846 8081B						
OP35043-BS1	309-00-2	Aldrin	BSP	REC	100	%	40-140
OP35043-BS1	15972-60-8	Alachlor	BSP	REC	110	%	40-140
OP35043-BS1	319-84-6	alpha-BHC	BSP	REC	105	%	40-140
OP35043-BS1	319-85-7	beta-BHC	BSP	REC	120	%	40-140
OP35043-BS1	319-86-8	delta-BHC	BSP	REC	115	%	40-140
OP35043-BS1	58-89-9	gamma-BHC (Lindane)	BSP	REC	110	%	40-140
OP35043-BS1	60-57-1	Dieldrin	BSP	REC	115	%	40-140
OP35043-BS1	72-54-8	4,4'-DDD	BSP	REC	110	%	40-140
OP35043-BS1	72-55-9	4,4'-DDE	BSP	REC	105	%	40-140
OP35043-BS1	50-29-3	4,4'-DDT	BSP	REC	120	%	40-140
OP35043-BS1	72-20-8	Endrin	BSP	REC	120	%	40-140
OP35043-BS1	1031-07-8	Endosulfan sulfate	BSP	REC	115	%	40-140
OP35043-BS1	7421-93-4	Endrin aldehyde	BSP	REC	115	%	40-140
OP35043-BS1	53494-70-5	Endrin ketone	BSP	REC	120	%	40-140
OP35043-BS1	959-98-8	Endosulfan-I	BSP	REC	110	%	40-140
OP35043-BS1	33213-65-9	Endosulfan-II	BSP	REC	120	%	40-140
OP35043-BS1	76-44-8	Heptachlor	BSP	REC	115	%	40-140
OP35043-BS1	1024-57-3	Heptachlor epoxide	BSP	REC	115	%	40-140
OP35043-BS1	72-43-5	Methoxychlor	BSP	REC	125 [c]	%	40-140
OP35043-BS1	877-09-8	Tetrachloro-m-xylene (sig#1)	BSP	SURR	98	%	30-150
OP35043-BS1	877-09-8	Tetrachloro-m-xylene (sig#2)	BSP	SURR	92	%	30-150
OP35043-BS1	2051-24-3	Decachlorobiphenyl (sig#1)	BSP	SURR	59	%	30-150
OP35043-BS1	2051-24-3	Decachlorobiphenyl (sig#2)	BSP	SURR	65	%	30-150
OP35043-BSD	309-00-2	Aldrin	BSD	REC	80	%	40-140
OP35043-BSD	309-00-2	Aldrin	BSD	RPD	22	%	20
OP35043-BSD	15972-60-8	Alachlor	BSD	REC	140	%	40-140
OP35043-BSD	319-84-6	alpha-BHC	BSD	REC	90	%	40-140
OP35043-BSD	319-84-6	alpha-BHC	BSD	RPD	15	%	20
OP35043-BSD	319-85-7	beta-BHC	BSD	REC	105	%	40-140
OP35043-BSD	319-85-7	beta-BHC	BSD	RPD	13	%	20
OP35043-BSD	319-86-8	delta-BHC	BSD	REC	100	%	40-140
OP35043-BSD	319-86-8	delta-BHC	BSD	RPD	14	%	20
OP35043-BSD	58-89-9	gamma-BHC (Lindane)	BSD	REC	90	%	40-140
OP35043-BSD	58-89-9	gamma-BHC (Lindane)	BSD	RPD	20	%	20
OP35043-BSD	60-57-1	Dieldrin	BSD	REC	100	%	40-140
OP35043-BSD	60-57-1	Dieldrin	BSD	RPD	14	%	20
OP35043-BSD	72-54-8	4,4'-DDD	BSD	REC	105	%	40-140
OP35043-BSD	72-54-8	4,4'-DDD	BSD	RPD	5	%	20
OP35043-BSD	72-55-9	4,4'-DDE	BSD	REC	90	%	40-140
OP35043-BSD	72-55-9	4,4'-DDE	BSD	RPD	15	%	20

* Sample used for QC is not from job JD30293

QC Evaluation: CT RCP Limits

Job Number: JD30293
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP35043-BSD	50-29-3	4,4'-DDT	BSD	REC	100	%	40-140
OP35043-BSD	50-29-3	4,4'-DDT	BSD	RPD	18	%	20
OP35043-BSD	72-20-8	Endrin	BSD	REC	105	%	40-140
OP35043-BSD	72-20-8	Endrin	BSD	RPD	13	%	20
OP35043-BSD	1031-07-8	Endosulfan sulfate	BSD	REC	100	%	40-140
OP35043-BSD	1031-07-8	Endosulfan sulfate	BSD	RPD	14	%	20
OP35043-BSD	7421-93-4	Endrin aldehyde	BSD	REC	95	%	40-140
OP35043-BSD	7421-93-4	Endrin aldehyde	BSD	RPD	19	%	20
OP35043-BSD	53494-70-5	Endrin ketone	BSD	REC	110	%	40-140
OP35043-BSD	53494-70-5	Endrin ketone	BSD	RPD	9	%	20
OP35043-BSD	959-98-8	Endosulfan-I	BSD	REC	95	%	40-140
OP35043-BSD	959-98-8	Endosulfan-I	BSD	RPD	15	%	20
OP35043-BSD	33213-65-9	Endosulfan-II	BSD	REC	100	%	40-140
OP35043-BSD	33213-65-9	Endosulfan-II	BSD	RPD	14	%	20
OP35043-BSD	76-44-8	Heptachlor	BSD	REC	90	%	40-140
OP35043-BSD	76-44-8	Heptachlor	BSD	RPD	24	%	20
OP35043-BSD	1024-57-3	Heptachlor epoxide	BSD	REC	95	%	40-140
OP35043-BSD	1024-57-3	Heptachlor epoxide	BSD	RPD	19	%	20
OP35043-BSD	72-43-5	Methoxychlor	BSD	REC	110 [c]	%	40-140
OP35043-BSD	72-43-5	Methoxychlor	BSD	RPD	13 [c]	%	20
OP35043-BSD	877-09-8	Tetrachloro-m-xylene (sig#1)	BSD	SURR	80	%	30-150
OP35043-BSD	877-09-8	Tetrachloro-m-xylene (sig#2)	BSD	SURR	74	%	30-150
OP35043-BSD	2051-24-3	Decachlorobiphenyl (sig#1)	BSD	SURR	53	%	30-150
OP35043-BSD	2051-24-3	Decachlorobiphenyl (sig#2)	BSD	SURR	61	%	30-150
OP35043-MS	309-00-2	Aldrin	MS	REC	78	%	30-150
OP35043-MS	15972-60-8	Alachlor	MS	REC	206 [a]	%	30-150
OP35043-MS	319-84-6	alpha-BHC	MS	REC	103	%	30-150
OP35043-MS	319-85-7	beta-BHC	MS	REC	108	%	30-150
OP35043-MS	319-86-8	delta-BHC	MS	REC	103	%	30-150
OP35043-MS	58-89-9	gamma-BHC (Lindane)	MS	REC	103	%	30-150
OP35043-MS	60-57-1	Dieldrin	MS	REC	118	%	30-150
OP35043-MS	72-54-8	4,4'-DDD	MS	REC	113	%	30-150
OP35043-MS	72-55-9	4,4'-DDE	MS	REC	93	%	30-150
OP35043-MS	50-29-3	4,4'-DDT	MS	REC	118	%	30-150
OP35043-MS	72-20-8	Endrin	MS	REC	108	%	30-150
OP35043-MS	1031-07-8	Endosulfan sulfate	MS	REC	171	%	30-150
OP35043-MS	7421-93-4	Endrin aldehyde	MS	REC	113	%	30-150
OP35043-MS	53494-70-5	Endrin ketone	MS	REC	181	%	30-150
OP35043-MS	959-98-8	Endosulfan-I	MS	REC	103	%	30-150
OP35043-MS	33213-65-9	Endosulfan-II	MS	REC	113	%	30-150
OP35043-MS	76-44-8	Heptachlor	MS	REC	93	%	30-150
OP35043-MS	1024-57-3	Heptachlor epoxide	MS	REC	93	%	30-150
OP35043-MS	72-43-5	Methoxychlor	MS	REC	113	%	30-150
OP35043-MS	877-09-8	Tetrachloro-m-xylene (sig#1)	MS	SURR	97	%	30-150
OP35043-MS	877-09-8	Tetrachloro-m-xylene (sig#2)	MS	SURR	91	%	30-150

* Sample used for QC is not from job JD30293

QC Evaluation: CT RCP Limits

Job Number: JD30293
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP35043-MS	2051-24-3	Decachlorobiphenyl (sig#1)	MS	SURR	69	%	30-150
OP35043-MS	2051-24-3	Decachlorobiphenyl (sig#2)	MS	SURR	85	%	30-150
OP35043-MSD	309-00-2	Aldrin	MSD	REC	78	%	30-150
OP35043-MSD	309-00-2	Aldrin	MSD	RPD	0	%	30
OP35043-MSD	15972-60-8	Alachlor	MSD	REC	157	%	30-150
OP35043-MSD	15972-60-8	Alachlor	MSD	RPD	27	%	30
OP35043-MSD	319-84-6	alpha-BHC	MSD	REC	108	%	30-150
OP35043-MSD	319-84-6	alpha-BHC	MSD	RPD	5	%	30
OP35043-MSD	319-85-7	beta-BHC	MSD	REC	83	%	30-150
OP35043-MSD	319-85-7	beta-BHC	MSD	RPD	26	%	30
OP35043-MSD	319-86-8	delta-BHC	MSD	REC	113	%	30-150
OP35043-MSD	319-86-8	delta-BHC	MSD	RPD	9	%	30
OP35043-MSD	58-89-9	gamma-BHC (Lindane)	MSD	REC	108	%	30-150
OP35043-MSD	58-89-9	gamma-BHC (Lindane)	MSD	RPD	5	%	30
OP35043-MSD	12789-03-6	Chlordane	MSD	RPD	0	%	30
OP35043-MSD	60-57-1	Dieldrin	MSD	REC	113	%	30-150
OP35043-MSD	60-57-1	Dieldrin	MSD	RPD	4	%	30
OP35043-MSD	72-54-8	4,4'-DDD	MSD	REC	108	%	30-150
OP35043-MSD	72-54-8	4,4'-DDD	MSD	RPD	4	%	30
OP35043-MSD	72-55-9	4,4'-DDE	MSD	REC	103	%	30-150
OP35043-MSD	72-55-9	4,4'-DDE	MSD	RPD	10	%	30
OP35043-MSD	50-29-3	4,4'-DDT	MSD	REC	127	%	30-150
OP35043-MSD	50-29-3	4,4'-DDT	MSD	RPD	8	%	30
OP35043-MSD	72-20-8	Endrin	MSD	REC	127	%	30-150
OP35043-MSD	72-20-8	Endrin	MSD	RPD	17	%	30
OP35043-MSD	1031-07-8	Endosulfan sulfate	MSD	REC	118	%	30-150
OP35043-MSD	1031-07-8	Endosulfan sulfate	MSD	RPD	37	%	30
OP35043-MSD	7421-93-4	Endrin aldehyde	MSD	REC	122	%	30-150
OP35043-MSD	7421-93-4	Endrin aldehyde	MSD	RPD	8	%	30
OP35043-MSD	53494-70-5	Endrin ketone	MSD	REC	137	%	30-150
OP35043-MSD	53494-70-5	Endrin ketone	MSD	RPD	28	%	30
OP35043-MSD	959-98-8	Endosulfan-I	MSD	REC	108	%	30-150
OP35043-MSD	959-98-8	Endosulfan-I	MSD	RPD	5	%	30
OP35043-MSD	33213-65-9	Endosulfan-II	MSD	REC	118	%	30-150
OP35043-MSD	33213-65-9	Endosulfan-II	MSD	RPD	4	%	30
OP35043-MSD	76-44-8	Heptachlor	MSD	REC	93	%	30-150
OP35043-MSD	76-44-8	Heptachlor	MSD	RPD	0	%	30
OP35043-MSD	1024-57-3	Heptachlor epoxide	MSD	REC	98	%	30-150
OP35043-MSD	1024-57-3	Heptachlor epoxide	MSD	RPD	5	%	30
OP35043-MSD	72-43-5	Methoxychlor	MSD	REC	137	%	30-150
OP35043-MSD	72-43-5	Methoxychlor	MSD	RPD	20	%	30
OP35043-MSD	8001-35-2	Toxaphene	MSD	RPD	0	%	30
OP35043-MSD	877-09-8	Tetrachloro-m-xylene (sig#1)	MSD	SURR	100	%	30-150
OP35043-MSD	877-09-8	Tetrachloro-m-xylene (sig#2)	MSD	SURR	93	%	30-150
OP35043-MSD	2051-24-3	Decachlorobiphenyl (sig#1)	MSD	SURR	81	%	30-150

* Sample used for QC is not from job JD30293

QC Evaluation: CT RCP Limits

Job Number: JD30293
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP35043-MSD	2051-24-3	Decachlorobiphenyl (sig#2)	MSD	SURR	87	%	30-150
OP35043-MB1	877-09-8	Tetrachloro-m-xylene (sig#1)	MB	SURR	82	%	30-150
OP35043-MB1	877-09-8	Tetrachloro-m-xylene (sig#2)	MB	SURR	83	%	30-150
OP35043-MB1	2051-24-3	Decachlorobiphenyl (sig#1)	MB	SURR	66	%	30-150
OP35043-MB1	2051-24-3	Decachlorobiphenyl (sig#2)	MB	SURR	72	%	30-150
JD30293-1	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	104	%	30-150
JD30293-1	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	100	%	30-150
JD30293-1	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	55	%	30-150
JD30293-1	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	68	%	30-150
JD30293-2	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	108	%	30-150
JD30293-2	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	99	%	30-150
JD30293-2	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	58	%	30-150
JD30293-2	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	57	%	30-150
JD30293-3	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	106	%	30-150
JD30293-3	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	96	%	30-150
JD30293-3	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	73	%	30-150
JD30293-3	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	75	%	30-150
JD30293-4	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	106	%	30-150
JD30293-4	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	101	%	30-150
JD30293-4	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	67	%	30-150
JD30293-4	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	68	%	30-150
JD30293-5	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	99	%	30-150
JD30293-5	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	95	%	30-150
JD30293-5	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	84	%	30-150
JD30293-5	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	91	%	30-150
JD30293-6	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	110	%	30-150
JD30293-6	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	103	%	30-150
JD30293-6	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	97	%	30-150
JD30293-6	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	99	%	30-150
JD30293-7	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	98	%	30-150
JD30293-7	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	93	%	30-150
JD30293-7	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	66	%	30-150
JD30293-7	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	73	%	30-150
OP35044	SW846 8082A						
OP35044-BS1	12674-11-2	Aroclor 1016	BSP	REC	100	%	40-140
OP35044-BS1	11096-82-5	Aroclor 1260	BSP	REC	100	%	40-140
OP35044-BS1	877-09-8	Tetrachloro-m-xylene (sig#1)	BSP	SURR	94	%	30-150
OP35044-BS1	877-09-8	Tetrachloro-m-xylene (sig#2)	BSP	SURR	84	%	30-150
OP35044-BS1	2051-24-3	Decachlorobiphenyl (sig#1)	BSP	SURR	82	%	30-150
OP35044-BS1	2051-24-3	Decachlorobiphenyl (sig#2)	BSP	SURR	75	%	30-150
OP35044-BSD	12674-11-2	Aroclor 1016	BSD	REC	100	%	40-140
OP35044-BSD	12674-11-2	Aroclor 1016	BSD	RPD	0	%	20
OP35044-BSD	11104-28-2	Aroclor 1221	BSD	RPD	0	%	20

* Sample used for QC is not from job JD30293

QC Evaluation: CT RCP Limits

Job Number: JD30293
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP35044-BSD	11141-16-5	Aroclor 1232	BSD	RPD	0	%	20
OP35044-BSD	53469-21-9	Aroclor 1242	BSD	RPD	0	%	20
OP35044-BSD	12672-29-6	Aroclor 1248	BSD	RPD	0	%	20
OP35044-BSD	11097-69-1	Aroclor 1254	BSD	RPD	0	%	20
OP35044-BSD	11096-82-5	Aroclor 1260	BSD	REC	100	%	40-140
OP35044-BSD	11096-82-5	Aroclor 1260	BSD	RPD	0	%	20
OP35044-BSD	11100-14-4	Aroclor 1268	BSD	RPD	0	%	20
OP35044-BSD	37324-23-5	Aroclor 1262	BSD	RPD	0	%	20
OP35044-BSD	877-09-8	Tetrachloro-m-xylene (sig#1)	BSD	SURR	100	%	30-150
OP35044-BSD	877-09-8	Tetrachloro-m-xylene (sig#2)	BSD	SURR	88	%	30-150
OP35044-BSD	2051-24-3	Decachlorobiphenyl (sig#1)	BSD	SURR	66	%	30-150
OP35044-BSD	2051-24-3	Decachlorobiphenyl (sig#2)	BSD	SURR	73	%	30-150
OP35044-MS	12674-11-2	Aroclor 1016	MS	REC	92	%	40-140
OP35044-MS	11096-82-5	Aroclor 1260	MS	REC	86	%	40-140
OP35044-MS	877-09-8	Tetrachloro-m-xylene (sig#1)	MS	SURR	92	%	30-150
OP35044-MS	877-09-8	Tetrachloro-m-xylene (sig#2)	MS	SURR	93	%	30-150
OP35044-MS	2051-24-3	Decachlorobiphenyl (sig#1)	MS	SURR	71	%	30-150
OP35044-MS	2051-24-3	Decachlorobiphenyl (sig#2)	MS	SURR	73	%	30-150
OP35044-MSD	12674-11-2	Aroclor 1016	MSD	REC	98	%	40-140
OP35044-MSD	12674-11-2	Aroclor 1016	MSD	RPD	6	%	50
OP35044-MSD	11104-28-2	Aroclor 1221	MSD	RPD	0	%	50
OP35044-MSD	11141-16-5	Aroclor 1232	MSD	RPD	0	%	50
OP35044-MSD	53469-21-9	Aroclor 1242	MSD	RPD	0	%	50
OP35044-MSD	12672-29-6	Aroclor 1248	MSD	RPD	0	%	50
OP35044-MSD	11097-69-1	Aroclor 1254	MSD	RPD	0	%	50
OP35044-MSD	11096-82-5	Aroclor 1260	MSD	REC	104	%	40-140
OP35044-MSD	11096-82-5	Aroclor 1260	MSD	RPD	19	%	50
OP35044-MSD	11100-14-4	Aroclor 1268	MSD	RPD	0	%	50
OP35044-MSD	37324-23-5	Aroclor 1262	MSD	RPD	0	%	50
OP35044-MSD	877-09-8	Tetrachloro-m-xylene (sig#1)	MSD	SURR	104	%	30-150
OP35044-MSD	877-09-8	Tetrachloro-m-xylene (sig#2)	MSD	SURR	100	%	30-150
OP35044-MSD	2051-24-3	Decachlorobiphenyl (sig#1)	MSD	SURR	83	%	30-150
OP35044-MSD	2051-24-3	Decachlorobiphenyl (sig#2)	MSD	SURR	84	%	30-150
OP35044-MB1	877-09-8	Tetrachloro-m-xylene (sig#1)	MB	SURR	91	%	30-150
OP35044-MB1	877-09-8	Tetrachloro-m-xylene (sig#2)	MB	SURR	85	%	30-150
OP35044-MB1	2051-24-3	Decachlorobiphenyl (sig#1)	MB	SURR	59	%	30-150
OP35044-MB1	2051-24-3	Decachlorobiphenyl (sig#2)	MB	SURR	54	%	30-150
JD30293-1	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	103	%	30-150
JD30293-1	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	97	%	30-150
JD30293-1	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	55	%	30-150
JD30293-1	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	53	%	30-150
JD30293-2	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	103	%	30-150
JD30293-2	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	100	%	30-150
JD30293-2	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	59	%	30-150
JD30293-2	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	53	%	30-150

* Sample used for QC is not from job JD30293

QC Evaluation: CT RCP Limits

Job Number: JD30293
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD30293-3	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	92	%	30-150
JD30293-3	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	91	%	30-150
JD30293-3	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	69	%	30-150
JD30293-3	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	64	%	30-150
JD30293-4	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	109	%	30-150
JD30293-4	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	101	%	30-150
JD30293-4	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	68	%	30-150
JD30293-4	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	64	%	30-150
JD30293-5	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	92	%	30-150
JD30293-5	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	90	%	30-150
JD30293-5	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	78	%	30-150
JD30293-5	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	78	%	30-150
JD30293-6	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	109	%	30-150
JD30293-6	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	101	%	30-150
JD30293-6	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	94	%	30-150
JD30293-6	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	86	%	30-150
JD30293-7	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	100	%	30-150
JD30293-7	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	92	%	30-150
JD30293-7	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	69	%	30-150
JD30293-7	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	66	%	30-150

(a) Outside control limits due to matrix interference.
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.

* Sample used for QC is not from job JD30293

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D4993-MB	4D112129.D	1	08/27/21	EH	n/a	n/a	V4D4993

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7, JD30293-8

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	10	ug/l	
107-13-1	Acrylonitrile	ND	10	ug/l	
71-43-2	Benzene	ND	0.50	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	ug/l	
104-51-8	n-Butylbenzene	ND	2.0	ug/l	
135-98-8	sec-Butylbenzene	ND	2.0	ug/l	
98-06-6	tert-Butylbenzene	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	2.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
74-87-3	Chloromethane	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	2.0	ug/l	
106-43-4	p-Chlorotoluene	ND	2.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	ug/l	
110-57-6	trans-1,4-Dichloro-2-Butene	ND	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D4993-MB	4D112129.D	1	08/27/21	EH	n/a	n/a	V4D4993

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7, JD30293-8

CAS No.	Compound	Result	RL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
76-13-1	Freon 113	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	2.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	ug/l	
109-99-9	Tetrahydrofuran	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
79-01-6	Trichloroethene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

Method Blank Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D4993-MB	4D112129.D	1	08/27/21	EH	n/a	n/a	V4D4993

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7, JD30293-8

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	85-118%
17060-07-0	1,2-Dichloroethane-D4	96%	80-121%
2037-26-5	Toluene-D8	103%	80-120%
460-00-4	4-Bromofluorobenzene	93%	80-120%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D4993-BS	4D112127.D	1	08/27/21	EH	n/a	n/a	V4D4993

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7, JD30293-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	562	543	97	63-137
107-13-1	Acrylonitrile	50	50.1	100	73-134
71-43-2	Benzene	50	46.9	94	78-117
108-86-1	Bromobenzene	50	47.2	94	82-121
75-27-4	Bromodichloromethane	50	43.1	86	83-123
75-25-2	Bromoform	50	46.0	92	80-140
74-83-9	Bromomethane	50	37.8	76	26-167
78-93-3	2-Butanone (MEK)	562	601	107	73-135
104-51-8	n-Butylbenzene	50	45.7	91	78-126
135-98-8	sec-Butylbenzene	50	44.5	89	78-122
98-06-6	tert-Butylbenzene	50	46.5	93	77-122
75-15-0	Carbon disulfide	50	45.9	92	60-131
56-23-5	Carbon tetrachloride	50	43.6	87	75-127
108-90-7	Chlorobenzene	50	44.5	89	83-115
75-00-3	Chloroethane	50	46.0	92	61-135
67-66-3	Chloroform	50	42.4	85	76-118
74-87-3	Chloromethane	50	47.5	95	46-144
95-49-8	o-Chlorotoluene	50	47.4	95	80-120
106-43-4	p-Chlorotoluene	50	42.1	84	80-117
96-12-8	1,2-Dibromo-3-chloropropane	50	45.2	90	75-135
124-48-1	Dibromochloromethane	50	44.2	88	84-128
106-93-4	1,2-Dibromoethane	50	48.1	96	82-129
95-50-1	1,2-Dichlorobenzene	50	46.1	92	85-117
541-73-1	1,3-Dichlorobenzene	50	46.1	92	83-116
106-46-7	1,4-Dichlorobenzene	50	45.6	91	82-115
110-57-6	trans-1,4-Dichloro-2-Butene	50	43.0	86	49-146
75-71-8	Dichlorodifluoromethane	50	45.2	90	49-153
75-34-3	1,1-Dichloroethane	50	50.2	100	75-122
107-06-2	1,2-Dichloroethane	50	41.3	83	74-116
75-35-4	1,1-Dichloroethene	50	44.5	89	68-129
156-59-2	cis-1,2-Dichloroethene	50	44.5	89	78-120
156-60-5	trans-1,2-Dichloroethene	50	44.5	89	74-125
78-87-5	1,2-Dichloropropane	50	48.2	96	80-120
142-28-9	1,3-Dichloropropane	50	42.6	85	82-116
594-20-7	2,2-Dichloropropane	50	41.8	84	70-128
563-58-6	1,1-Dichloropropene	50	45.1	90	75-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D4993-BS	4D112127.D	1	08/27/21	EH	n/a	n/a	V4D4993

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7, JD30293-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	50	46.2	92	84-123
10061-02-6	trans-1,3-Dichloropropene	50	44.6	89	84-124
100-41-4	Ethylbenzene	50	43.6	87	80-115
76-13-1	Freon 113	50	45.1	90	66-136
87-68-3	Hexachlorobutadiene	50	48.2	96	68-137
591-78-6	2-Hexanone	562	532	95	74-132
98-82-8	Isopropylbenzene	50	45.1	90	79-120
99-87-6	p-Isopropyltoluene	50	45.3	91	80-122
1634-04-4	Methyl Tert Butyl Ether	50	45.8	92	77-124
108-10-1	4-Methyl-2-pentanone(MIBK)	562	508	90	77-129
74-95-3	Methylene bromide	50	43.8	88	83-121
75-09-2	Methylene chloride	50	47.4	95	74-125
91-20-3	Naphthalene	50	47.3	95	73-138
103-65-1	n-Propylbenzene	50	44.7	89	78-117
100-42-5	Styrene	50	46.4	93	83-122
630-20-6	1,1,1,2-Tetrachloroethane	50	46.5	93	82-125
79-34-5	1,1,2,2-Tetrachloroethane	50	46.5	93	78-122
127-18-4	Tetrachloroethene	50	45.6	91	75-125
109-99-9	Tetrahydrofuran	50	44.0	88	69-129
108-88-3	Toluene	50	45.1	90	80-115
87-61-6	1,2,3-Trichlorobenzene	50	49.8	100	73-140
120-82-1	1,2,4-Trichlorobenzene	50	50.9	102	77-137
71-55-6	1,1,1-Trichloroethane	50	43.5	87	77-124
79-00-5	1,1,2-Trichloroethane	50	47.1	94	83-118
79-01-6	Trichloroethene	50	43.2	86	80-123
75-69-4	Trichlorofluoromethane	50	41.5	83	71-134
96-18-4	1,2,3-Trichloropropane	50	45.0	90	80-121
95-63-6	1,2,4-Trimethylbenzene	50	44.6	89	81-119
108-67-8	1,3,5-Trimethylbenzene	50	44.5	89	79-120
75-01-4	Vinyl chloride	50	46.9	94	56-138
	m,p-Xylene	100	89.3	89	81-118
95-47-6	o-Xylene	50	46.0	92	81-119

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V4D4993-BS	4D112127.D	1	08/27/21	EH	n/a	n/a	V4D4993

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7, JD30293-8

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	85-118%
17060-07-0	1,2-Dichloroethane-D4	94%	80-121%
2037-26-5	Toluene-D8	98%	80-120%
460-00-4	4-Bromofluorobenzene	94%	80-120%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD30293-5MS	4D112132.D	1	08/27/21	EH	n/a	n/a	V4D4993
JD30293-5MSD	4D112133.D	1	08/27/21	EH	n/a	n/a	V4D4993
JD30293-5	4D112139.D	1	08/27/21	EH	n/a	n/a	V4D4993

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7, JD30293-8

CAS No.	Compound	JD30293-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		562	559	99	562	526	94	6	52-133/18
107-13-1	Acrylonitrile	ND		50	49.6	99	50	49.9	100	1	61-132/17
71-43-2	Benzene	ND		50	53.6	107	50	49.2	98	9	55-129/11
108-86-1	Bromobenzene	ND		50	50.4	101	50	46.0	92	9	73-120/11
75-27-4	Bromodichloromethane	ND		50	46.8	94	50	42.9	86	9	74-123/11
75-25-2	Bromoform	ND		50	48.1	96	50	44.8	90	7	69-135/12
74-83-9	Bromomethane	ND		50	45.4	91	50	50.0	100	10	11-167/43
78-93-3	2-Butanone (MEK)	ND		562	623	111	562	591	105	5	64-131/15
104-51-8	n-Butylbenzene	ND		50	53.6	107	50	48.7	97	10	69-130/11
135-98-8	sec-Butylbenzene	ND		50	50.6	101	50	46.9	94	8	70-125/12
98-06-6	tert-Butylbenzene	ND		50	51.3	103	50	48.3	97	6	68-125/12
75-15-0	Carbon disulfide	ND		50	51.9	104	50	47.9	96	8	54-137/15
56-23-5	Carbon tetrachloride	ND		50	50.3	101	50	46.6	93	8	68-132/11
108-90-7	Chlorobenzene	ND		50	49.4	99	50	45.6	91	8	71-119/10
75-00-3	Chloroethane	ND		50	51.8	104	50	57.0	114	10	50-146/18
67-66-3	Chloroform	ND		50	46.6	93	50	43.1	86	8	67-120/11
74-87-3	Chloromethane	ND		50	52.3	105	50	56.7	113	8	42-146/17
95-49-8	o-Chlorotoluene	ND		50	52.2	104	50	48.2	96	8	71-120/12
106-43-4	p-Chlorotoluene	ND		50	46.0	92	50	42.1	84	9	71-117/11
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	50.0	100	50	43.4	87	14	65-130/15
124-48-1	Dibromochloromethane	ND		50	46.3	93	50	43.2	86	7	74-125/10
106-93-4	1,2-Dibromoethane	ND		50	41.4	83	50	39.0	78	6	74-125/9
95-50-1	1,2-Dichlorobenzene	ND		50	51.0	102	50	45.8	92	11* [a]	73-117/10
541-73-1	1,3-Dichlorobenzene	ND		50	50.2	100	50	46.3	93	8	73-117/10
106-46-7	1,4-Dichlorobenzene	ND		50	49.9	100	50	45.5	91	9	70-117/10
110-57-6	trans-1,4-Dichloro-2-Butene	ND		50	46.2	92	50	41.5	83	11	31-143/26
75-71-8	Dichlorodifluoromethane	ND		50	51.8	104	50	54.9	110	6	46-169/17
75-34-3	1,1-Dichloroethane	ND		50	55.7	111	50	51.9	104	7	66-124/13
107-06-2	1,2-Dichloroethane	ND		50	45.2	90	50	41.3	83	9	66-115/10
75-35-4	1,1-Dichloroethene	ND		50	51.0	102	50	47.6	95	7	60-136/15
156-59-2	cis-1,2-Dichloroethene	ND		50	48.9	98	50	45.2	90	8	55-133/12
156-60-5	trans-1,2-Dichloroethene	ND		50	50.6	101	50	45.9	92	10	67-127/13
78-87-5	1,2-Dichloropropane	ND		50	52.5	105	50	50.1	100	5	72-120/11
142-28-9	1,3-Dichloropropane	ND		50	45.0	90	50	42.2	84	6	72-115/10
594-20-7	2,2-Dichloropropane	ND		50	50.3	101	50	46.2	92	8	61-133/12
563-58-6	1,1-Dichloropropene	ND		50	52.8	106	50	49.3	99	7	68-127/12

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD30293-5MS	4D112132.D	1	08/27/21	EH	n/a	n/a	V4D4993
JD30293-5MSD	4D112133.D	1	08/27/21	EH	n/a	n/a	V4D4993
JD30293-5	4D112139.D	1	08/27/21	EH	n/a	n/a	V4D4993

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7, JD30293-8

CAS No.	Compound	JD30293-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		50	50.9	102	50	47.9	96	6	75-123/12
10061-02-6	trans-1,3-Dichloropropene	ND		50	47.6	95	50	44.7	89	6	73-122/11
100-41-4	Ethylbenzene	ND		50	49.6	99	50	46.2	92	7	44-136/10
76-13-1	Freon 113	ND		50	53.0	106	50	48.4	97	9	61-148/15
87-68-3	Hexachlorobutadiene	ND		50	58.4	117	50	51.7	103	12	55-143/15
591-78-6	2-Hexanone	ND		562	550	98	562	529	94	4	64-129/13
98-82-8	Isopropylbenzene	ND		50	50.6	101	50	47.6	95	6	71-122/11
99-87-6	p-Isopropyltoluene	ND		50	51.3	103	50	47.3	95	8	72-124/11
1634-04-4	Methyl Tert Butyl Ether	ND		50	48.3	97	50	44.8	90	8	64-122/11
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		562	543	97	562	511	91	6	68-128/13
74-95-3	Methylene bromide	ND		50	46.4	93	50	43.4	87	7	74-118/10
75-09-2	Methylene chloride	ND		50	51.0	102	50	47.1	94	8	65-126/13
91-20-3	Naphthalene	23.1		50	80.4	115	50	74.2	102	8	58-140/16
103-65-1	n-Propylbenzene	ND		50	50.1	100	50	45.9	92	9	64-123/11
100-42-5	Styrene	ND		50	51.1	102	50	47.6	95	7	73-124/11
630-20-6	1,1,1,2-Tetrachloroethane	ND		50	51.3	103	50	47.3	95	8	74-123/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	48.1	96	50	43.5	87	10	68-120/15
127-18-4	Tetrachloroethene	ND		50	51.8	104	50	48.6	97	6	61-134/11
109-99-9	Tetrahydrofuran	ND		50	46.6	93	50	43.9	88	6	58-127/17
108-88-3	Toluene	ND		50	50.1	100	50	47.3	95	6	54-130/11
87-61-6	1,2,3-Trichlorobenzene	ND		50	57.9	116	50	53.0	106	9	64-135/15
120-82-1	1,2,4-Trichlorobenzene	ND		50	60.2	120	50	54.4	109	10	67-134/14
71-55-6	1,1,1-Trichloroethane	ND		50	51.1	102	50	46.6	93	9	66-130/12
79-00-5	1,1,2-Trichloroethane	ND		50	49.0	98	50	46.6	93	5	73-117/11
79-01-6	Trichloroethene	ND		50	49.4	99	50	46.1	92	7	56-139/11
75-69-4	Trichlorofluoromethane	ND		50	48.8	98	50	52.2	104	7	63-150/16
96-18-4	1,2,3-Trichloropropane	ND		50	47.8	96	50	42.4	85	12	71-118/12
95-63-6	1,2,4-Trimethylbenzene	ND		50	49.4	99	50	45.5	91	8	45-139/11
108-67-8	1,3,5-Trimethylbenzene	ND		50	49.6	99	50	45.2	90	9	60-128/12
75-01-4	Vinyl chloride	ND		50	53.2	106	50	57.5	115	8	48-148/17
	m,p-Xylene	ND		100	102	102	100	93.9	94	8	42-140/10
95-47-6	o-Xylene	ND		50	51.4	103	50	47.5	95	8	54-133/11

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD30293-5MS	4D112132.D	1	08/27/21	EH	n/a	n/a	V4D4993
JD30293-5MSD	4D112133.D	1	08/27/21	EH	n/a	n/a	V4D4993
JD30293-5	4D112139.D	1	08/27/21	EH	n/a	n/a	V4D4993

The QC reported here applies to the following samples: **Method:** SW846 8260D

JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7, JD30293-8

CAS No.	Surrogate Recoveries	MS	MSD	JD30293-5	Limits
1868-53-7	Dibromofluoromethane	99%	100%	101%	85-118%
17060-07-0	1,2-Dichloroethane-D4	95%	94%	101%	80-121%
2037-26-5	Toluene-D8	97%	99%	101%	80-120%
460-00-4	4-Bromofluorobenzene	93%	92%	93%	80-120%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std: V4D4993-CC4892 **Injection Date:** 08/27/21
Lab File ID: 4D112125.D **Injection Time:** 11:28
Instrument ID: GCMS4D **Method:** SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	519662	8.63	708944	11.11	958430	12.00	718110	14.90	302999	17.00
Upper Limit [a]	1039324	9.13	1417888	11.61	1916860	12.50	1436220	15.40	605998	17.50
Lower Limit [b]	259831	8.13	354472	10.61	479215	11.50	359055	14.40	151500	16.50

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
V4D4992-BS2	498345	8.63	666310	11.11	911173	12.00	692280	14.90	294114	17.00
V4D4993-BS	498345	8.63	666310	11.11	911173	12.00	692280	14.90	294114	17.00
V4D4992-MB2	561586	8.62	771321	11.11	1018317	12.00	753535	14.90	315386	17.00
V4D4993-MB	561586	8.62	771321	11.11	1018317	12.00	753535	14.90	315386	17.00
JD30176-22DUP	515184	8.62	667162	11.11	896837	12.00	657490	14.90	271276	17.00
JD30176-23MS	442032	8.63	584464	11.11	801804	12.00	612946	14.90	264397	17.00
JD30293-5MS	519637	8.63	672718	11.11	914444	12.00	706079	14.90	301967	17.00
JD30293-5MSD	613904	8.63	767695	11.11	1051869	12.00	791507	14.90	348712	17.00
ZZZZZZ	682029	8.62	851059	11.11	1163969	12.00	886297	14.90	374381	17.00
ZZZZZZ	644162	8.62	799077	11.11	1092037	12.00	825294	14.90	345667	17.00
ZZZZZZ	555010	8.62	728303	11.11	968159	12.00	730795	14.90	308730	17.00
JD30293-8	497582	8.63	655788	11.11	883564	12.00	651035	14.90	274821	17.00
JD30293-5	443032	8.63	581152	11.11	768676	12.00	578253	14.90	250993	17.00
JD30293-6	419008	8.62	545173	11.11	732126	12.00	556678	14.90	243373	17.00
JD30293-7	379241	8.62	518027	11.11	695928	12.00	536737	14.90	224249	17.00
JD30293-1	349423	8.62	495096	11.11	655155	12.00	503045	14.90	224156	17.00
JD30293-2	336110	8.62	471787	11.11	628204	12.00	486097	14.90	209523	17.00
JD30293-3	319573	8.62	453047	11.11	601281	12.00	465116	14.90	208699	17.00
JD30293-4	314181	8.62	443622	11.11	587592	12.00	454242	14.90	200313	17.00
ZZZZZZ	316561	8.62	451283	11.11	591584	12.00	455400	14.90	194906	17.00
ZZZZZZ	305761	8.62	435884	11.11	564208	12.00	435065	14.90	188911	17.00
ZZZZZZ	283578	8.63	419048	11.11	558939	12.00	430010	14.90	178370	17.00
ZZZZZZ	283937	8.62	414637	11.11	546561	12.00	417392	14.90	177381	17.00

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: SW846 8260D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JD30293-1	4D112142.D	100	103	99	90
JD30293-2	4D112143.D	99	105	98	93
JD30293-3	4D112144.D	99	105	97	92
JD30293-4	4D112145.D	100	105	98	93
JD30293-5	4D112139.D	101	101	101	93
JD30293-6	4D112140.D	100	102	99	92
JD30293-7	4D112141.D	100	103	98	95
JD30293-8	4D112138.D	99	98	101	94
JD30293-5MS	4D112132.D	99	95	97	93
JD30293-5MSD	4D112133.D	100	94	99	92
V4D4993-BS	4D112127.D	100	94	98	94
V4D4993-MB	4D112129.D	100	96	103	93

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	85-118%
S2 = 1,2-Dichloroethane-D4	80-121%
S3 = Toluene-D8	80-120%
S4 = 4-Bromofluorobenzene	80-120%

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35038A-MB1	4P47147.D	1	08/24/21	CS	08/23/21	OP35038A	E4P2476

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.080	ug/l	
208-96-8	Acenaphthylene	ND	0.080	ug/l	
120-12-7	Anthracene	ND	0.080	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.040	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.040	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.040	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.080	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.080	ug/l	
218-01-9	Chrysene	ND	0.080	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.080	ug/l	
206-44-0	Fluoranthene	ND	0.080	ug/l	
86-73-7	Fluorene	ND	0.080	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.080	ug/l	
91-20-3	Naphthalene	ND	0.080	ug/l	
85-01-8	Phenanthrene	ND	0.080	ug/l	
129-00-0	Pyrene	ND	0.080	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	87%	29-124%
321-60-8	2-Fluorobiphenyl	75%	23-122%
1718-51-0	Terphenyl-d14	85%	22-130%

Method Blank Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35038A-MB1	3P94778.D	1	08/25/21	CS	08/23/21	OP35038A	E3P4474

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.080	ug/l	
208-96-8	Acenaphthylene	ND	0.080	ug/l	
120-12-7	Anthracene	ND	0.080	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.040	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.040	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.040	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.080	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.080	ug/l	
218-01-9	Chrysene	ND	0.080	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.080	ug/l	
206-44-0	Fluoranthene	ND	0.080	ug/l	
86-73-7	Fluorene	1.76	0.080	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.080	ug/l	
91-20-3	Naphthalene	ND	0.080	ug/l	
85-01-8	Phenanthrene	ND	0.080	ug/l	
129-00-0	Pyrene	ND	0.080	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	74%	29-124%
321-60-8	2-Fluorobiphenyl	74%	23-122%
1718-51-0	Terphenyl-d14	94%	22-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35038A-BS12	4P47148.D	1	08/25/21	CS	08/23/21	OP35038A	E4P2476
OP35038A-BSD12	4P47149.D	1	08/25/21	CS	08/23/21	OP35038A	E4P2476

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	0.8	0.627	78	0.708	89	12	31-135/38
208-96-8	Acenaphthylene	0.8	0.603	75	0.689	86	13	28-130/42
120-12-7	Anthracene	0.8	0.684	86	0.845	106	21	40-125/32
56-55-3	Benzo(a)anthracene	0.8	0.861	108	0.959	120	11	38-132/31
50-32-8	Benzo(a)pyrene	0.8	0.622	78	0.678	85	9	31-110/37
205-99-2	Benzo(b)fluoranthene	0.8	0.840	105	0.851	106	1	31-113/37
191-24-2	Benzo(g,h,i)perylene	0.8	0.736	92	0.819	102	11	18-110/54
207-08-9	Benzo(k)fluoranthene	0.8	0.643	80	0.767	96	18	31-119/43
218-01-9	Chrysene	0.8	0.732	92	0.801	100	9	43-119/33
53-70-3	Dibenzo(a,h)anthracene	0.8	0.771	96	0.859	107	11	20-112/50
206-44-0	Fluoranthene	0.8	0.581	73	0.637	80	9	48-118/27
86-73-7	Fluorene	0.8	0.645	81	0.740	93	14	42-123/34
193-39-5	Indeno(1,2,3-cd)pyrene	0.8	0.764	96	0.843	105	10	18-113/49
91-20-3	Naphthalene	0.8	0.656	82	0.682	85	4	30-114/40
85-01-8	Phenanthrene	0.8	0.655	82	0.725	91	10	45-125/31
129-00-0	Pyrene	0.8	0.690	86	0.746	93	8	48-125/29

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
4165-60-0	Nitrobenzene-d5	93%	93%	29-124%
321-60-8	2-Fluorobiphenyl	78%	84%	23-122%
1718-51-0	Terphenyl-d14	87%	94%	22-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35038A-MSA	4P47150.D	1	08/25/21	CS	08/23/21	OP35038A	E4P2476
OP35038A-MSDA	4P47151.D	1	08/25/21	CS	08/23/21	OP35038A	E4P2476
JD30293-5	4P47152.D	1	08/25/21	CS	08/23/21	OP35038A	E4P2476
JD30293-5	4P47215.D	10	08/25/21	KLS	08/23/21	OP35038A	E4P2478

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7

CAS No.	Compound	JD30293-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	0.523		0.8	1.19	83	0.769	1.06	70	12	22-149/33
208-96-8	Acenaphthylene	0.639		0.8	1.35	89	0.769	1.17	69	14	20-146/36
120-12-7	Anthracene	0.231		0.8	0.950	90	0.769	0.928	91	2	28-144/32
56-55-3	Benzo(a)anthracene	0.0267		0.8	0.941	114	0.769	0.819	103	14	27-144/36
50-32-8	Benzo(a)pyrene	ND		0.8	0.631	79	0.769	0.556	72	13	21-113/41
205-99-2	Benzo(b)fluoranthene	ND		0.8	0.827	103	0.769	0.713	93	15	21-123/41
191-24-2	Benzo(g,h,i)perylene	ND		0.8	0.676	85	0.769	0.595	77	13	10-113/48
207-08-9	Benzo(k)fluoranthene	ND		0.8	0.668	84	0.769	0.597	78	11	23-122/42
218-01-9	Chrysene	ND		0.8	0.749	94	0.769	0.661	86	12	31-128/34
53-70-3	Dibenzo(a,h)anthracene	ND		0.8	0.651	81	0.769	0.584	76	11	12-114/47
206-44-0	Fluoranthene	0.198		0.8	0.809	76	0.769	0.723	68	11	34-134/32
86-73-7	Fluorene	0.572		0.8	1.25	85	0.769	1.08	66	15	32-138/33
193-39-5	Indeno(1,2,3-cd)pyrene	ND		0.8	0.691	86	0.769	0.607	79	13	11-116/49
91-20-3	Naphthalene	7.28 [b]		0.8	10.5	63	0.769	9.60	-52* [a]	9	13-141/33
85-01-8	Phenanthrene	0.946		0.8	1.64	87	0.769	1.40	59	16	33-139/31
129-00-0	Pyrene	0.170		0.8	0.913	93	0.769	0.828	86	10	35-142/33

CAS No.	Surrogate Recoveries	MS	MSD	JD30293-5	JD30293-5	Limits
4165-60-0	Nitrobenzene-d5	94%	88%	89%	57%	29-124%
321-60-8	2-Fluorobiphenyl	83%	75%	77%	50%	23-122%
1718-51-0	Terphenyl-d14	84%	75%	81%	53%	22-130%

(a) Outside control limits due to high level in sample relative to spike amount.
(b) Result is from Run #2.

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	E3P4474-CC4467	**Injection Date:**	08/25/21
Lab File ID:	3P94777.D	**Injection Time:**	05:43
Instrument ID:	GCMS3P	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	95594	7.04	120606	8.50	162186	10.63	47795	13.31
Upper Limit [a]	191188	7.54	241212	9.00	324372	11.13	95590	13.81
Lower Limit [b]	47797	6.54	60303	8.00	81093	10.13	23898	12.81

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP35038A-MB1	82799	7.04	109077	8.50	137169	10.63	35151	13.31
ZZZZZZ	76238	7.04	93688	8.50	129287	10.63	41353	13.31
ZZZZZZ	80140	7.04	99303	8.50	135624	10.63	43553	13.31
ZZZZZZ	77980	7.04	93250	8.50	128234	10.63	39719	13.31
ZZZZZZ	85172	7.03	108475	8.50	154198	10.63	58268	13.31
ZZZZZZ	81701	7.03	100693	8.50	145515	10.63	60848	13.31
ZZZZZZ	87904	7.04	108787	8.50	149235	10.63	53473	13.31
ZZZZZZ	77901	7.03	96806	8.50	132309	10.63	41037	13.31
ZZZZZZ	82580	7.03	102557	8.50	138156	10.63	46141	13.31
ZZZZZZ	90153	7.03	110315	8.50	154336	10.63	112016*	13.31

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	E4P2476-CC2469	**Injection Date:**	08/24/21
Lab File ID:	4P47146.D	**Injection Time:**	22:31
Instrument ID:	GCMS4P	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	54144	6.57	78161	8.02	137277	10.12	93239	12.75
Upper Limit [a]	108288	7.07	156322	8.52	274554	10.62	186478	13.25
Lower Limit [b]	27072	6.07	39081	7.52	68639	9.62	46620	12.25

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP35038A-MB1	54847	6.56	77707	8.02	134877	10.12	96600	12.75
OP35038A-BS12	55552	6.56	80786	8.02	139597	10.12	94167	12.75
OP35038A-BSD12	57949	6.56	81940	8.02	142120	10.12	97699	12.75
OP35038A-MSA	60608	6.56	87029	8.02	150068	10.12	97044	12.75
OP35038A-MSDA	60063	6.56	88819	8.02	149711	10.12	97279	12.75
JD30293-5	59930	6.56	86430	8.02	145504	10.12	95833	12.75
JD30293-1	58906	6.56	81416	8.02	141005	10.12	92801	12.75
JD30293-2	56950	6.56	78990	8.02	134786	10.12	93311	12.75
JD30293-3	55797	6.56	76918	8.02	133288	10.12	91137	12.75
JD30293-4	56228	6.56	77667	8.02	130853	10.12	89857	12.75
JD30293-6	56458	6.56	77064	8.02	133211	10.12	90832	12.75
JD30293-7	55859	6.56	76825	8.02	130103	10.12	89078	12.75

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	E4P2478-CC2469	**Injection Date:**	08/25/21
Lab File ID:	4P47197.D	**Injection Time:**	13:58
Instrument ID:	GCMS4P	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	92236	6.55	137496	8.01	241577	10.11	160247	12.75
Upper Limit [a]	184472	7.05	274992	8.51	483154	10.61	320494	13.25
Lower Limit [b]	46118	6.05	68748	7.51	120789	9.61	80124	12.25

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
ZZZZZZ	97308	6.55	143001	8.01	246116	10.11	150320	12.75
ZZZZZZ	73821	6.55	97369	8.01	152457	10.11	98993	12.75
ZZZZZZ	86125	6.56	88444	8.06	184046	10.11	122681	12.75
ZZZZZZ	93596	6.56	135896	8.01	222586	10.11	128241	12.74
ZZZZZZ	104953	6.56	152634	8.01	250218	10.11	133864	12.75
ZZZZZZ	97831	6.55	141551	8.01	243606	10.11	149805	12.74
ZZZZZZ	96885	6.56	135649	8.01	238521	10.11	141422	12.74
ZZZZZZ	95882	6.56	132661	8.01	234904	10.11	140094	12.74
ZZZZZZ	93873	6.56	137271	8.01	222876	10.11	142159	12.74
ZZZZZZ	100529	6.55	144920	8.01	238799	10.11	145721	12.74
ZZZZZZ	124961	6.56	164714	8.01	253836	10.11	149788	12.75
ZZZZZZ	113306	6.55	155412	8.01	247391	10.11	145109	12.74
ZZZZZZ	95298	6.55	138606	8.01	228050	10.11	136932	12.74
ZZZZZZ	125915	6.56	163433	8.01	262421	10.11	154475	12.74
ZZZZZZ	101925	6.55	154993	8.01	256677	10.11	153444	12.74
ZZZZZZ	134210	6.57	145171	8.02	197267	10.12	126764	12.75
JD30293-5	103991	6.55	154354	8.01	241534	10.11	158948	12.74
ZZZZZZ	90158	6.55	123582	8.01	183822	10.11	111781	12.74

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: SW846 8270E BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JD30293-1	4P47153.D	78	71	74
JD30293-2	4P47154.D	81	73	69
JD30293-3	4P47155.D	86	77	79
JD30293-4	4P47156.D	88	82	85
JD30293-5	4P47215.D	57	50	53
JD30293-5	4P47152.D	89	77	81
JD30293-6	4P47157.D	71	65	71
JD30293-7	4P47158.D	76	70	83
OP35038A-BS12	4P47148.D	93	78	87
OP35038A-BSD12	4P47149.D	93	84	94
OP35038A-MB1	4P47147.D	87	75	85
OP35038A-MB1	3P94778.D	74	74	94
OP35038A-MSA	4P47150.D	94	83	84
OP35038A-MSDA	4P47151.D	88	75	75

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	29-124%
S2 = 2-Fluorobiphenyl	23-122%
S3 = Terphenyl-d14	22-130%

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- DDT/Endrin Breakdown Checks
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35042-MB1	8Z40192.D	1	08/27/21	RK	08/25/21	OP35042	G8Z1735

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7

CAS No.	Compound	Result	RL	Units	Q
	CT-DRO (C9-C36)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	61%	31-122%

8.1.1

8

Method Blank Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35043-MB1	6G79150.D	1	08/25/21	CP	08/24/21	OP35043	G6G2779

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.0080	ug/l	
15972-60-8	Alachlor	ND	0.080	ug/l	
319-84-6	alpha-BHC	ND	0.0080	ug/l	
319-85-7	beta-BHC	ND	0.0080	ug/l	
319-86-8	delta-BHC	ND	0.0080	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.0080	ug/l	
12789-03-6	Chlordane	ND	0.40	ug/l	
60-57-1	Dieldrin	ND	0.0080	ug/l	
72-54-8	4,4'-DDD	ND	0.0080	ug/l	
72-55-9	4,4'-DDE	ND	0.0080	ug/l	
50-29-3	4,4'-DDT	ND	0.0080	ug/l	
72-20-8	Endrin	ND	0.0080	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.0080	ug/l	
7421-93-4	Endrin aldehyde	ND	0.0080	ug/l	
53494-70-5	Endrin ketone	ND	0.0080	ug/l	
959-98-8	Endosulfan-I	ND	0.0080	ug/l	
33213-65-9	Endosulfan-II	ND	0.0080	ug/l	
76-44-8	Heptachlor	ND	0.0080	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.0080	ug/l	
72-43-5	Methoxychlor	ND	0.016	ug/l	
8001-35-2	Toxaphene	ND	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	82%	10-165%
877-09-8	Tetrachloro-m-xylene	83%	10-165%
2051-24-3	Decachlorobiphenyl	66%	28-161%
2051-24-3	Decachlorobiphenyl	72%	28-161%

Method Blank Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35044-MB1	XX2470076.D	1	08/25/21	CP	08/24/21	OP35044	GXX7554

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.40	ug/l	
11104-28-2	Aroclor 1221	ND	0.40	ug/l	
11141-16-5	Aroclor 1232	ND	0.40	ug/l	
53469-21-9	Aroclor 1242	ND	0.40	ug/l	
12672-29-6	Aroclor 1248	ND	0.40	ug/l	
11097-69-1	Aroclor 1254	ND	0.40	ug/l	
11096-82-5	Aroclor 1260	ND	0.40	ug/l	
11100-14-4	Aroclor 1268	ND	0.40	ug/l	
37324-23-5	Aroclor 1262	ND	0.40	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	91%	10-155%
877-09-8	Tetrachloro-m-xylene	85%	10-155%
2051-24-3	Decachlorobiphenyl	59%	10-151%
2051-24-3	Decachlorobiphenyl	54%	10-151%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35042-BS1	8Z40193.D	1	08/28/21	RK	08/25/21	OP35042	G8Z1735
OP35042-BSD	8Z40194.D	1	08/28/21	RK	08/25/21	OP35042	G8Z1735

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	CT-DRO (C9-C36)	0.8	0.896	112	0.869	109	3	32-122/51

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	74%	71%	31-122%

8.2.1

8

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35043-BS1	6G79151.D	1	08/25/21	CP	08/24/21	OP35043	G6G2779
OP35043-BSD	6G79152.D	1	08/25/21	CP	08/24/21	OP35043	G6G2779

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	0.2	0.20	100	0.16	80	22	10-180/75
15972-60-8	Alachlor	0.2	0.22	110	0.28	140	24	15-170/74
319-84-6	alpha-BHC	0.2	0.21	105	0.18	90	15	11-182/79
319-85-7	beta-BHC	0.2	0.24	120	0.21	105	13	14-178/70
319-86-8	delta-BHC	0.2	0.23	115	0.20	100	14	10-171/72
58-89-9	gamma-BHC (Lindane)	0.2	0.22	110	0.18	90	20	13-181/71
60-57-1	Dieldrin	0.2	0.23	115	0.20	100	14	14-179/69
72-54-8	4,4'-DDD	0.2	0.22	110	0.21	105	5	11-173/73
72-55-9	4,4'-DDE	0.2	0.21	105	0.18	90	15	10-170/81
50-29-3	4,4'-DDT	0.2	0.24	120	0.20	100	18	15-168/80
72-20-8	Endrin	0.2	0.24	120	0.21	105	13	10-193/86
1031-07-8	Endosulfan sulfate	0.2	0.23	115	0.20	100	14	12-165/78
7421-93-4	Endrin aldehyde	0.2	0.23	115	0.19	95	19	18-158/83
53494-70-5	Endrin ketone	0.2	0.24	120	0.22	110	9	13-175/88
959-98-8	Endosulfan-I	0.2	0.22	110	0.19	95	15	16-175/80
33213-65-9	Endosulfan-II	0.2	0.24	120	0.20	100	14	10-176/80
76-44-8	Heptachlor	0.2	0.23	115	0.18	90	24	14-172/71
1024-57-3	Heptachlor epoxide	0.2	0.23	115	0.19	95	19	13-178/69
72-43-5	Methoxychlor	0.2	0.25	125 [a]	0.22	110 [a]	13 [a]	10-171/89

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	98%	80%	10-165%
877-09-8	Tetrachloro-m-xylene	92%	74%	10-165%
2051-24-3	Decachlorobiphenyl	59%	53%	28-161%
2051-24-3	Decachlorobiphenyl	65%	61%	28-161%

(a) Reported from the 2nd signal. The %D of the CCV on the 1st signal exceeds the method criteria of 20%, so it being used for confirmation only.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35044-BS1	XX2470077.D	1	08/25/21	CP	08/24/21	OP35044	GXX7554
OP35044-BSD	XX2470173.D	1	08/26/21	TC	08/24/21	OP35044	GXX7556

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	1.6	1.6	100	1.6	100	0	29-158/53
11104-28-2	Aroclor 1221		ND		ND		nc	50-150/30
11141-16-5	Aroclor 1232		ND		ND		nc	50-150/30
53469-21-9	Aroclor 1242		ND		ND		nc	50-150/30
12672-29-6	Aroclor 1248		ND		ND		nc	50-150/30
11097-69-1	Aroclor 1254		ND		ND		nc	50-150/30
11096-82-5	Aroclor 1260	1.6	1.6	100	1.6	100	0	27-162/56
11100-14-4	Aroclor 1268		ND		ND		nc	50-150/30
37324-23-5	Aroclor 1262		ND		ND		nc	50-150/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	94%	100%	10-155%
877-09-8	Tetrachloro-m-xylene	84%	88%	10-155%
2051-24-3	Decachlorobiphenyl	82%	66%	10-151%
2051-24-3	Decachlorobiphenyl	75%	73%	10-151%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35042-MS	8Z40167.D	1	08/26/21	CP	08/25/21	OP35042	G8Z1733
OP35042-MSD	8Z40168.D	1	08/26/21	CP	08/25/21	OP35042	G8Z1733
JD30293-5	8Z40166.D	1	08/26/21	CP	08/25/21	OP35042	G8Z1733

The QC reported here applies to the following samples: **Method:** CT-ETPH

JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7

CAS No.	Compound	JD30293-5 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	CT-DRO (C9-C36)	ND		0.884	1.31	148	0.825	0.980	119	29	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JD30293-5	Limits
84-15-1	o-Terphenyl	68%	68%	71%	31-122%

8.3.1

8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35043-MS	6G79161.D	1	08/25/21	CP	08/24/21	OP35043	G6G2779
OP35043-MSD	6G79162.D	1	08/25/21	CP	08/24/21	OP35043	G6G2779
JD30293-5	6G79160.D	1	08/25/21	CP	08/24/21	OP35043	G6G2779

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7

CAS No.	Compound	JD30293-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
309-00-2	Aldrin	ND		0.204	0.16	78	0.204	0.16	78	0	10-200/61
15972-60-8	Alachlor	ND		0.204	0.42	206* [a]	0.204	0.32	157	27	10-200/68
319-84-6	alpha-BHC	ND		0.204	0.21	103	0.204	0.22	108	5	10-200/54
319-85-7	beta-BHC	ND		0.204	0.22	108	0.204	0.17	83	26	10-200/56
319-86-8	delta-BHC	ND		0.204	0.21	103	0.204	0.23	113	9	10-200/69
58-89-9	gamma-BHC (Lindane)	ND		0.204	0.21	103	0.204	0.22	108	5	10-200/56
12789-03-6	Chlordane	ND			ND			ND		nc	81-123/30
60-57-1	Dieldrin	ND		0.204	0.24	118	0.204	0.23	113	4	10-200/60
72-54-8	4,4'-DDD	ND		0.204	0.23	113	0.204	0.22	108	4	10-200/68
72-55-9	4,4'-DDE	ND		0.204	0.19	93	0.204	0.21	103	10	10-200/58
50-29-3	4,4'-DDT	ND		0.204	0.24	118	0.204	0.26	127	8	10-200/57
72-20-8	Endrin	ND		0.204	0.22	108	0.204	0.26	127	17	10-200/61
1031-07-8	Endosulfan sulfate	ND		0.204	0.35	171	0.204	0.24	118	37	10-200/58
7421-93-4	Endrin aldehyde	ND		0.204	0.23	113	0.204	0.25	122	8	10-200/62
53494-70-5	Endrin ketone	ND		0.204	0.37	181	0.204	0.28	137	28	10-200/58
959-98-8	Endosulfan-I	ND		0.204	0.21	103	0.204	0.22	108	5	10-200/111
33213-65-9	Endosulfan-II	ND		0.204	0.23	113	0.204	0.24	118	4	10-200/63
76-44-8	Heptachlor	ND		0.204	0.19	93	0.204	0.19	93	0	10-200/65
1024-57-3	Heptachlor epoxide	ND		0.204	0.19	93	0.204	0.20	98	5	10-200/66
72-43-5	Methoxychlor	ND		0.204	0.23	113	0.204	0.28	137	20	10-200/109
8001-35-2	Toxaphene	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JD30293-5	Limits
877-09-8	Tetrachloro-m-xylene	97%	100%	99%	10-165%
877-09-8	Tetrachloro-m-xylene	91%	93%	95%	10-165%
2051-24-3	Decachlorobiphenyl	69%	81%	84%	28-161%
2051-24-3	Decachlorobiphenyl	85%	87%	91%	28-161%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35044-MS	XX2470086.D	1	08/25/21	CP	08/24/21	OP35044	GXX7554
OP35044-MSD	XX2470087.D	1	08/25/21	CP	08/24/21	OP35044	GXX7554
JD30293-5	XX2470085.D	1	08/25/21	CP	08/24/21	OP35044	GXX7554

The QC reported here applies to the following samples: **Method:** SW846 8082A

JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7

CAS No.	Compound	JD30293-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND		1.63	1.5	92	1.63	1.6	98	6	10-204/64
11104-28-2	Aroclor 1221	ND			ND			ND		nc	50-150/30
11141-16-5	Aroclor 1232	ND			ND			ND		nc	50-150/8
53469-21-9	Aroclor 1242	ND			ND			ND		nc	50-150/12
12672-29-6	Aroclor 1248	ND			ND			ND		nc	50-150/55
11097-69-1	Aroclor 1254	ND			ND			ND		nc	50-150/19
11096-82-5	Aroclor 1260	ND		1.63	1.4	86	1.63	1.7	104	19	10-191/51
11100-14-4	Aroclor 1268	ND			ND			ND		nc	50-150/30
37324-23-5	Aroclor 1262	ND			ND			ND		nc	50-150/30

CAS No.	Surrogate Recoveries	MS	MSD	JD30293-5	Limits
877-09-8	Tetrachloro-m-xylene	92%	104%	92%	10-155%
877-09-8	Tetrachloro-m-xylene	93%	100%	90%	10-155%
2051-24-3	Decachlorobiphenyl	71%	83%	78%	10-151%
2051-24-3	Decachlorobiphenyl	73%	84%	78%	10-151%

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	G6G2779-CC2739	**Injection Date:**	08/24/21
Lab File ID:	6G79144.D	**Injection Time:**	22:44
Instrument ID:	GC6G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	447479502	2.18	704802204	1.83
Upper Limit [a]	894959004	2.68	1409604408	2.33
Lower Limit [b]	223739751	1.68	352401102	1.33

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP35045A-MB1	409613983	2.18	607673732	1.83
OP35045A-BS1	474625715	2.18	725778546	1.83
OP35045A-BSD	441117518	2.18	717898725	1.83
ZZZZZZ	445513821	2.18	725246339	1.83
OP35043-MB1	425930676	2.18	678077136	1.83
OP35043-BS1	433942049	2.18	705666310	1.83
OP35043-BSD	462634422	2.18	731809378	1.83
ZZZZZZ	413303439	2.18	767661082	1.83
ZZZZZZ	290841610	2.18	461926996	1.83
ZZZZZZ	568520954	2.18	896293180	1.83
JD30293-1	442076542	2.18	692341504	1.83
JD30293-2	463129639	2.18	722571240	1.83
JD30293-3	454949508	2.18	700200616	1.83
JD30293-4	475599468	2.18	737033312	1.83
JD30293-5	443724674	2.18	703995662	1.83
OP35043-MS	453347540	2.18	701094177	1.83
OP35043-MSD	448305702	2.18	694137093	1.83

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	G6G2779-CC2739	**Injection Date:**	08/25/21
Lab File ID:	6G79165.D	**Injection Time:**	06:01
Instrument ID:	GC6G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	473858625	2.18	798252711	1.83
Upper Limit [a]	947717250	2.68	1596505422	2.33
Lower Limit [b]	236929313	1.68	399126356	1.33

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
JD30293-6	444744821	2.18	710832069	1.83
JD30293-7	470998858	2.18	750524322	1.83
ZZZZZZ	523785376	2.18	892467045	1.83
ZZZZZZ	464795024	2.18	867156155	1.83

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

DDT/Endrin Breakdown Check

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample:	G6G2739-DDT	**Injection Date:**	06/18/21
Lab File ID:	6G78514.D	**Injection Time:**	03:27
Instrument ID:	GC6G		

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	14125074	6213265
4,4'-DDE	18705711	10181979
4,4'-DDT	1195238245	620563455
DDT Breakdown [a]	2.7 %	2.6 %
Endrin aldehyde	0	0
Endrin ketone	6569129	4036389
Endrin	774861152	383466685
Endrin Breakdown [b]	0.8 %	1 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G6G2739-IC2739	6G78516A.D	06/18/21	04:31	01:04	Initial cal 1
G6G2739-IC2739	6G78517.D	06/18/21	04:49	01:22	Initial cal 2
G6G2739-IC2739	6G78518.D	06/18/21	05:07	01:41	Initial cal 5
G6G2739-IC2739	6G78519.D	06/18/21	05:26	01:59	Initial cal 10
G6G2739-ICC2739	6G78520.D	06/18/21	05:44	02:17	Initial cal 25
G6G2739-IC2739	6G78521.D	06/18/21	06:02	02:36	Initial cal 50
G6G2739-IC2739	6G78522.D	06/18/21	06:21	02:54	Initial cal 75
G6G2739-IC2739	6G78523.D	06/18/21	06:39	03:12	Initial cal 100
G6G2739-IC2739	6G78524.D	06/18/21	06:57	03:31	Initial cal 500
G6G2739-IC2739	6G78525.D	06/18/21	07:16	03:49	Initial cal 500
G6G2739-ICV2739	6G78526.D	06/18/21	07:34	04:07	Initial cal verification 25
G6G2739-ICV2739	6G78527.D	06/18/21	07:52	04:25	Initial cal verification 500
G6G2739-ICV2739	6G78528.D	06/18/21	08:10	04:44	Initial cal verification 500
G6G2739-ICV2739	6G78529.D	06/18/21	08:29	05:02	Initial cal verification 25
G6G2739-ICV2739	6G78530.D	06/18/21	08:47	05:20	Initial cal verification 25
G6G2740-CC2739	6G78531.D	06/18/21	09:05	05:39	Continuing cal 25
G6G2740-CC2739	6G78533.D	06/18/21	09:42	06:15	Continuing cal 50

DDT/Endrin Breakdown Check

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample: G6G2779-DDT
Lab File ID: 6G79143.D
Instrument ID: GC6G
Injection Date: 08/24/21
Injection Time: 22:26

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	17544805	7495520
4,4'-DDE	20271519	12495690
4,4'-DDT	1540665054	845043932
DDT Breakdown [a]	2.4 %	2.3 %
Endrin aldehyde	4755161	3421537
Endrin ketone	9284353	3264357
Endrin	954676174	491550085
Endrin Breakdown [b]	1.4 %	1.3 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G6G2779-CC2739	6G79144.D	08/24/21	22:44	00:18	Continuing cal 50
OP35045A-MB1	6G79146.D	08/25/21	00:09	01:43	Method Blank
OP35045A-BS1	6G79147.D	08/25/21	00:26	02:01	Blank Spike
OP35045A-BSD	6G79148.D	08/25/21	00:44	02:18	Blank Spike Duplicate
ZZZZZZ	6G79149.D	08/25/21	01:02	02:36	(unrelated sample)
OP35043-MB1	6G79150.D	08/25/21	01:35	03:09	Method Blank
OP35043-BS1	6G79151.D	08/25/21	01:53	03:27	Blank Spike
OP35043-BSD	6G79152.D	08/25/21	02:10	03:44	Blank Spike Duplicate
ZZZZZZ	6G79153.D	08/25/21	02:28	04:02	(unrelated sample)
ZZZZZZ	6G79154.D	08/25/21	02:45	04:20	(unrelated sample)
ZZZZZZ	6G79155.D	08/25/21	03:03	04:37	(unrelated sample)
JD30293-1	6G79156.D	08/25/21	03:21	04:55	MW-3
JD30293-2	6G79157.D	08/25/21	03:39	05:13	FD-01
JD30293-3	6G79158.D	08/25/21	03:57	05:31	MW-2
JD30293-4	6G79159.D	08/25/21	04:14	05:49	MW-5
JD30293-5	6G79160.D	08/25/21	04:32	06:06	MW-6
OP35043-MS	6G79161.D	08/25/21	04:50	06:24	Matrix Spike
OP35043-MSD	6G79162.D	08/25/21	05:08	06:42	Matrix Spike Duplicate
G6G2779-CC2739	6G79165.D	08/25/21	06:01	07:35	Continuing cal 25
JD30293-6	6G79167.D	08/25/21	06:37	08:11	MW-4
JD30293-7	6G79168.D	08/25/21	06:55	08:29	MW-1R
ZZZZZZ	6G79169.D	08/25/21	07:12	08:46	(unrelated sample)
ZZZZZZ	6G79170.D	08/25/21	07:30	09:04	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: SW846 8081B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD30293-1	6G79156.D	104	100	55	68
JD30293-2	6G79157.D	108	99	58	57
JD30293-3	6G79158.D	106	96	73	75
JD30293-4	6G79159.D	106	101	67	68
JD30293-5	6G79160.D	99	95	84	91
JD30293-6	6G79167.D	110	103	97	99
JD30293-7	6G79168.D	98	93	66	73
OP35043-BS1	6G79151.D	98	92	59	65
OP35043-BSD	6G79152.D	80	74	53	61
OP35043-MB1	6G79150.D	82	83	66	72
OP35043-MS	6G79161.D	97	91	69	85
OP35043-MSD	6G79162.D	100	93	81	87

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	10-165%
S2 = Decachlorobiphenyl	28-161%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

8.6.1

8

Surrogate Recovery Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: SW846 8082A **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD30293-1	XX2470100.D	103	97	55	53
JD30293-2	XX2470105.D	103	100	59	53
JD30293-3	XX2470106.D	92	91	69	64
JD30293-4	XX2470107.D	109	101	68	64
JD30293-5	XX2470085.D	92	90	78	78
JD30293-6	XX2470108.D	109	101	94	86
JD30293-7	XX2470109.D	100	92	69	66
OP35044-BS1	XX2470077.D	94	84	82	75
OP35044-BSD	XX2470173.D	100	88	66	73
OP35044-MB1	XX2470076.D	91	85	59	54
OP35044-MS	XX2470086.D	92	93	71	73
OP35044-MSD	XX2470087.D	104	100	83	84

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	10-155%
S2 = Decachlorobiphenyl	10-151%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Surrogate Recovery Summary

Job Number: JD30293
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: CT-ETPH **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]
JD30293-1	8Z40162.D	56
JD30293-2	8Z40163.D	46
JD30293-3	8Z40164.D	55
JD30293-4	8Z40165.D	62
JD30293-5	8Z40166.D	71
JD30293-6	8Z40169.D	69
JD30293-7	8Z40170.D	64
OP35042-BS1	8Z40193.D	74
OP35042-BSD	8Z40194.D	71
OP35042-MB1	8Z40192.D	61
OP35042-MS	8Z40167.D	68
OP35042-MSD	8Z40168.D	68

Surrogate Compounds	Recovery Limits
S1 = o-Terphenyl	31-122%

(a) Recovery from GC signal #1

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD30293
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28251
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 08/25/21

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.034	.095	0.069	<0.20

Associated samples MP28251: JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD30293
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28251
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 08/25/21

Metal	JD30293-5 Original	MS	Spikelot HGPW3	% Rec	QC Limits
Mercury	0.055	2.4	2	117.3	75-125

Associated samples MP28251: JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD30293
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28251
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 08/25/21

Metal	JD30293-5 Original	MSD	Spikelot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.055	2.5	2	122.3	4.1	20

Associated samples MP28251: JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD30293
Account: NEIMAL - Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

QC Batch ID: MP28251
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 08/25/21

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	1.8	2	90.0	80-120

Associated samples MP28251: JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

Misc. Forms

Custody Documents and Other Forms

(SGS Orlando, FL)

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

CHAIN OF CUSTODY

SGS

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480

FED-EX Tracking #:
Bottle Order Control #:
SGS Quote #:
SGS Job #: JD30293

Client / Reporting Information

Company Name: SGS North America Inc.
Street Address: 2235 Route 130
City: Dayton State: NJ Zip: 08810
Project Contact: Jadon.Schiller@sgs.com E-mail:
Phone #: 732-329-0200 Fax #:
Sampler(s) Name(s): MC Phone:

Project Information

Project Name: 43 Hempstead Street, New London, CT
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet): AGMS ,ASMS ,BAMS ,BEMS ,CDMS ,CRMS ,CUMS ,NIMS ,PBMS ,SBMS ,SEMS ,TLMS ,VMS ,ZNMS ,

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	AGMS ,ASMS ,BAMS ,BEMS ,CDMS ,CRMS ,CUMS ,NIMS ,PBMS ,SBMS ,SEMS ,TLMS ,VMS ,ZNMS ,	LAB USE ONLY
1	MW-3		8/18/21	11:00:00 AM	MC	AQ	1			1						X	
2	FD-01		8/18/21	8:00:00 AM	MC	AQ	1			1						X	
3	MW-2		8/18/21	12:00:00 PM	AE	AQ	1			1						X	
4	MW-5		8/18/21	2:15:00 PM	MC	AQ	1			1						X	
5	MW-6		8/18/21	2:10:00 PM	AE	AQ	1			1						X	
5D	MW-6		8/18/21	2:10:00 PM	AE	AQ	1			1						X	
5S	MW-6		8/18/21	2:10:00 PM	AE	AQ	1			1						X	
6	MW-4		8/19/21	10:15:00 AM	MC	AQ	1			1						X	
7	MW-1R		8/19/21	10:15:00 AM	AE	AQ	1			1						X	

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [X] other Due 9/2/2021

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [X] Other CTRCP

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Method 6020B
INITIAL ASSESSMENT
LABEL VERIFICATION

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	8/20/21 16:00	1 Fedex	2 Fedex	8/20/21	2 1450
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Intact / Not intact	Preserved where applicable / On Ice / Cooler Temp. 0.6

10.1 10

JD30293: Chain of Custody
Page 1 of 2
SGS Orlando, FL

SGS Sample Receipt Summary

Job Number: JD30293 **Client:** SGS NORTH AMERICA **Project:** 43 HEMPSTEAD STREET, NEW LONDON, CT

Date / Time Received: 8/27/2021 2:50:00 PM **Delivery Method:** FEDEX **Airbill #'s:** 925109057615

Therm ID: IR 1; **Therm CF:** 0.2; **# of Coolers:** 1

Cooler Temps (Raw Measured) °C: Cooler 1: (0.6);

Cooler Temps (Corrected) °C: Cooler 1: (0.8);

Cooler Information	Y	or	N
1. Custody Seals Present	☑		☐
2. Custody Seals Intact	☑		☐
3. Temp criteria achieved	☑		☐
4. Cooler temp verification	IR Gun		
5. Cooler media	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler	☐		☐	☑
2. Trip Blank listed on COC	☐		☐	☑
	W	**or**	**S**	**N/A**
3. Type Of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles	☑		☐	
2. Samples preserved properly	☑		☐	
3. Sufficient volume/containers recvd for analysis:	☑		☐	
4. Condition of sample	Intact			
5. Sample recvd within HT	☑		☐	
6. Dates/Times/IDs on COC match Sample Label	☑		☐	
7. VOCs have headspace	☐		☐	☑
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar received?	☐		☐	☑
12. Residual Chlorine Present?	☐		☐	☑

Misc. Information

Number of Encores: 25-Gram _____ 5-Gram _____ Number of 5035 Field Kits: _____ Number of Lab Filtered Metals: _____

Test Strip Lot #s: pH 0-3 230315 pH 10-12 219813A Other: (Specify) _____ _____

Residual Chlorine Test Strip Lot #: _____

Comments DID NOT RECEIVE SAMPLES 5D AND 5S.

SM001
Rev. Date 05/24/17

Technician: BRYANG Date: 8/27/2021 2:50:00 PM Reviewer: _____ Date: _____

10.1

10

JD30293: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

SGS Dayton, NJ

Job No: JD30293

NEIMAL: 43 Hempstead Street, New London, CT
Project No: 93203.15

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD30293-1 MW-3	Collected: 18-AUG-21 11:00 By: MC		Received: 19-AUG-21 By:			
JD30293-1	SW846 6020B	31-AUG-21 10:21	DM	30-AUG-21	JC	AGMS, ASMS, BAMS, BEMS, CDMS, CRMS, CUMS, NIMS, PBMS, SBMS, SEMS, TLMS, VMS, ZNMS
JD30293-2 FD-01	Collected: 18-AUG-21 08:00 By: MC		Received: 19-AUG-21 By:			
JD30293-2	SW846 6020B	31-AUG-21 10:25	DM	30-AUG-21	JC	AGMS, ASMS, BAMS, BEMS, CDMS, CRMS, CUMS, NIMS, PBMS, SBMS, SEMS, TLMS, VMS, ZNMS
JD30293-3 MW-2	Collected: 18-AUG-21 12:00 By: AE		Received: 19-AUG-21 By:			
JD30293-3	SW846 6020B	31-AUG-21 10:29	DM	30-AUG-21	JC	AGMS, ASMS, BAMS, BEMS, CDMS, CRMS, CUMS, NIMS, PBMS, SBMS, SEMS, TLMS, VMS, ZNMS
JD30293-4 MW-5	Collected: 18-AUG-21 14:15 By: MC		Received: 19-AUG-21 By:			
JD30293-4	SW846 6020B	31-AUG-21 10:32	DM	30-AUG-21	JC	AGMS, ASMS, BAMS, BEMS, CDMS, CRMS, CUMS, NIMS, PBMS, SBMS, SEMS, TLMS, VMS, ZNMS
JD30293-5 MW-6	Collected: 18-AUG-21 14:10 By: AE		Received: 19-AUG-21 By:			
JD30293-5	SW846 6020B	31-AUG-21 09:29	DM	30-AUG-21	JC	AGMS, ASMS, BAMS, BEMS, CDMS, CRMS, CUMS, NIMS, PBMS, SBMS, SEMS, TLMS, VMS, ZNMS
JD30293-6 MW-4	Collected: 19-AUG-21 10:15 By: MC		Received: 19-AUG-21 By:			

Internal Sample Tracking Chronicle

SGS Dayton, NJ

Job No: JD30293

NEIMAL: 43 Hempstead Street, New London, CT
Project No: 93203.15

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD30293-6	SW846 6020B	31-AUG-21 10:36	DM	30-AUG-21	JC	AGMS, ASMS, BAMS, BEMS, CDMS, CRMS, CUMS, NIMS, PBMS, SBMS, SEMS, TLMS, VMS, ZNMS
JD30293-7 MW-1R	Collected: 19-AUG-21 10:15 By: AE		Received: 19-AUG-21 By:			
JD30293-7	SW846 6020B	31-AUG-21 10:40	DM	30-AUG-21	JC	AGMS, ASMS, BAMS, BEMS, CDMS, CRMS, CUMS, NIMS, PBMS, SBMS, SEMS, TLMS, VMS, ZNMS

QC Evaluation: CT RCP Limits

Job Number: JD30293
Account: SGS Dayton, NJ
Project: NEIMAL: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No CT RCP Limits Found.

* Sample used for QC is not from job JD30293

Metals Analysis

QC Data Summaries

(SGS Orlando, FL)

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD30293
Account: ALNJ - SGS Dayton, NJ
Project: NEIMAL: 43 Hempstead Street, New London, CT

QC Batch ID: MP39459
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 08/30/21

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	8.7	22		
Antimony	2.0	.2	.2	0.036	<2.0
Arsenic	2.0	.2	.21	0.035	<2.0
Barium	2.0	.2	.2	0.0078	<2.0
Beryllium	2.0	.2	.2	0.11	<2.0
Cadmium	2.0	.2	.2	0.025	<2.0
Calcium	200	14	36		
Chromium	2.0	.2	.2	0.51	<2.0
Cobalt	2.0	.2	.2		
Copper	2.0	.2	.2	0.32	<2.0
Iron	200	16	23		
Lead	2.0	.2	.2	0.053	<2.0
Magnesium	200	10	19		
Manganese	2.0	.2	.2		
Molybdenum	2.0	.2	.39		
Nickel	2.0	.2	.2	-0.069	<2.0
Potassium	200	13	75		
Selenium	2.0	.22	.22	-0.049	<2.0
Silver	2.0	.2	.2	0.025	<2.0
Sodium	200	9.6	24		
Strontium	2.0	.2	.2		
Thallium	2.0	.2	.2	0.025	<2.0
Tin	2.0	.2	.2		
Titanium	2.0	.61	.88		
Vanadium	2.0	.2	.24	0.25	<2.0
Zinc	4.0	.58	1.7	0.79	<4.0

Associated samples MP39459: JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD30293
Account: ALNJ - SGS Dayton, NJ
Project: NEIMAL: 43 Hempstead Street, New London, CT

QC Batch ID: MP39459
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 08/30/21 08/30/21

Metal	JD30293-5 Original	DUP	RPD	QC Limits	JD30293-5 Original	MS	Spikelot MPICPMS1	% Rec	QC Limits
Aluminum									
Antimony	0.26	0.20	26.1 (a)	0-20	0.26	202	200	100.9	80-120
Arsenic	0.24	0.21	13.3	0-20	0.24	204	200	101.9	80-120
Barium	35.9	37.2	3.6	0-20	35.9	229	200	96.6	80-120
Beryllium	0.0	0.0	NC	0-20	0.0	222	200	111.0	80-120
Cadmium	0.0	0.0	NC	0-20	0.0	197	200	98.5	80-120
Calcium									
Chromium	0.83	0.81	2.4	0-20	0.83	200	200	99.6	80-120
Cobalt									
Copper	1.8	1.8	0.0	0-20	1.8	202	200	100.1	80-120
Iron									
Lead	0.0	0.0	NC	0-20	0.0	204	200	102.0	80-120
Magnesium									
Manganese									
Molybdenum									
Nickel	3.1	3.2	3.2	0-20	3.1	201	200	99.0	80-120
Potassium									
Selenium	1.4	1.4	0.0	0-20	1.4	185	200	91.8	80-120
Silver	0.0	0.0	NC	0-20	0.0	107	100	107.0	80-120
Sodium									
Strontium									
Thallium	0.0	0.0	NC	0-20	0.0	199	200	99.5	80-120
Tin									
Titanium									
Vanadium	0.54	0.56	3.6	0-20	0.54	197	200	98.2	80-120
Zinc	5.1	5.3	3.8	0-20	5.1	194	200	94.5	80-120

Associated samples MP39459: JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested
(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD30293
Account: ALNJ - SGS Dayton, NJ
Project: NEIMAL: 43 Hempstead Street, New London, CT

QC Batch ID: MP39459
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 08/30/21

Metal	JD30293-5 Original	MSD	Spikelot MPICPMS1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	0.26	214	200	106.9	5.8	20
Arsenic	0.24	214	200	106.9	4.8	20
Barium	35.9	244	200	104.1	6.3	20
Beryllium	0.0	227	200	113.5	2.2	20
Cadmium	0.0	204	200	102.0	3.5	20
Calcium						
Chromium	0.83	209	200	104.1	4.4	20
Cobalt						
Copper	1.8	210	200	104.1	3.9	20
Iron						
Lead	0.0	212	200	106.0	3.8	20
Magnesium						
Manganese						
Molybdenum						
Nickel	3.1	211	200	104.0	4.9	20
Potassium						
Selenium	1.4	192	200	95.3	3.7	20
Silver	0.0	111	100	111.0	3.7	20
Sodium						
Strontium						
Thallium	0.0	208	200	104.0	4.4	20
Tin						
Titanium						
Vanadium	0.54	206	200	102.7	4.5	20
Zinc	5.1	201	200	98.0	3.5	20

Associated samples MP39459: JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD30293
Account: ALNJ - SGS Dayton, NJ
Project: NEIMAL: 43 Hempstead Street, New London, CT

QC Batch ID: MP39459
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 08/30/21

Metal	BSP Result	Spikelot MPICPMS1	% Rec	QC Limits
Aluminum				
Antimony	201	200	100.5	80-120
Arsenic	202	200	101.0	80-120
Barium	194	200	97.0	80-120
Beryllium	207	200	103.5	80-120
Cadmium	196	200	98.0	80-120
Calcium				
Chromium	197	200	98.5	80-120
Cobalt				
Copper	202	200	101.0	80-120
Iron				
Lead	198	200	99.0	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	199	200	99.5	80-120
Potassium				
Selenium	182	200	91.0	80-120
Silver	105	100	105.0	80-120
Sodium				
Strontium				
Thallium	195	200	97.5	80-120
Tin				
Titanium				
Vanadium	192	200	96.0	80-120
Zinc	191	200	95.5	80-120

Associated samples MP39459: JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD30293
Account: ALNJ - SGS Dayton, NJ
Project: NEIMAL: 43 Hempstead Street, New London, CT

QC Batch ID: MP39459
Matrix Type: AQUEOUS

Methods: SW846 6020B
Units: ug/l

Prep Date: 08/30/21

Metal	JD30293-5 Original	SDL 2:10	%DIF	QC Limits
Aluminum				
Antimony	0.262	0.00	100.0(a)	0-10
Arsenic	0.237	0.00	100.0(a)	0-10
Barium	35.9	35.0	2.5	0-10
Beryllium	0.00	0.00	NC	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium				
Chromium	0.835	0.00	100.0(a)	0-10
Cobalt				
Copper	1.83	1.80	1.9	0-10
Iron				
Lead	0.00	0.00	NC	0-10
Magnesium				
Manganese				
Molybdenum				
Nickel	3.13	2.57	18.0 (a)	0-10
Potassium				
Selenium	1.44	1.30	9.5	0-10
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Vanadium	0.544	0.00	100.0(a)	0-10
Zinc	5.08	0.00	100.0(a)	0-10

Associated samples MP39459: JD30293-1, JD30293-2, JD30293-3, JD30293-4, JD30293-5, JD30293-6, JD30293-7

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Nobis Engineering, Inc.

43 Hempstead Street, New London, CT

93203.15

SGS Job Number: JD30293R

Sampling Dates: 08/18/21 - 08/19/21

Report to:

Nobis Engineering, Inc.
585 Middlesex Street
Lowell, MA 01851
jbrunelle@nobis-group.com; ARoy@nobis-group.com;
gglennon@nobis-group.com
ATTN: Jeff Brunelle

Total number of pages in report: **28**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary **3**
Section 2: Case Narrative/Conformance Summary **4**
Section 3: Summary of Hits **5**
Section 4: Sample Results **6**
4.1: JD30293-1R: MW-3 7
4.2: JD30293-2R: FD-01 8
4.3: JD30293-3R: MW-2 9
4.4: JD30293-4R: MW-5 10
4.5: JD30293-5R: MW-6 11
4.6: JD30293-6R: MW-4 12
4.7: JD30293-7R: MW-1R 13
Section 5: Misc. Forms **14**
5.1: Chain of Custody 15
5.2: RCP Form 19
5.3: Sample Tracking Chronicle 20
5.4: QC Evaluation: CT RCP Limits 21
Section 6: MS Semi-volatiles - QC Data Summaries **22**
6.1: Method Blank Summary 23
6.2: Blank Spike/Blank Spike Duplicate Summary 25
6.3: Internal Standard Area Summaries 26
6.4: Surrogate Recovery Summaries 28

SGS North America Inc.

Sample Summary

Nobis Engineering, Inc.

Job No: JD30293R

43 Hempstead Street, New London, CT
Project No: 93203.15

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD30293-1R	08/18/21	11:00	MC	08/19/21	AQ	Ground Water	MW-3
JD30293-2R	08/18/21	08:00	MC	08/19/21	AQ	Ground Water	FD-01
JD30293-3R	08/18/21	12:00	AE	08/19/21	AQ	Ground Water	MW-2
JD30293-4R	08/18/21	14:15	MC	08/19/21	AQ	Ground Water	MW-5
JD30293-5DR	08/18/21	14:10	AE	08/19/21	AQ	Water Dup/MSD	MW-6
JD30293-5R	08/18/21	14:10	AE	08/19/21	AQ	Ground Water	MW-6
JD30293-5SR	08/18/21	14:10	AE	08/19/21	AQ	Water Matrix Spike	MW-6
JD30293-6R	08/19/21	10:15	MC	08/19/21	AQ	Ground Water	MW-4
JD30293-7R	08/19/21	10:15	AE	08/19/21	AQ	Ground Water	MW-1R

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Nobis Engineering, Inc.	**Job No**	JD30293R
Site:	43 Hempstead Street, New London, CT	**Report Date**	10/14/2021 8:51:53 A

On 08/19/2021, 7 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 4.3 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD30293R was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: AQ **Batch ID:** OP35038A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Only report 2-Methylnaphthalene.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD30293R
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD30293-1R	**MW-3**					
2-Methylnaphthalene		33.7	0.37		ug/l	SW846 8270E BY SIM
JD30293-2R	**FD-01**					
2-Methylnaphthalene		27.2	0.36		ug/l	SW846 8270E BY SIM
JD30293-3R	**MW-2**					
2-Methylnaphthalene		57.3	0.38		ug/l	SW846 8270E BY SIM
JD30293-4R	**MW-5**					
2-Methylnaphthalene		38.1	0.36		ug/l	SW846 8270E BY SIM
JD30293-5R	**MW-6**					
2-Methylnaphthalene		937	0.40		ug/l	SW846 8270E BY SIM
JD30293-6R	**MW-4**					
2-Methylnaphthalene		35.6	0.37		ug/l	SW846 8270E BY SIM
JD30293-7R	**MW-1R**					
2-Methylnaphthalene		21.9	0.38		ug/l	SW846 8270E BY SIM

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JD30293-1R	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4P47153.D	1	08/25/21 02:02	CS	08/23/21 08:30	OP35038A	E4P2476
Run #2							

	Initial Volume	Final Volume
Run #1	270 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	33.7	0.37	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		21-121%
321-60-8	2-Fluorobiphenyl	71%		27-107%
1718-51-0	Terphenyl-d14	74%		25-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD30293-2R	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4P47154.D	1	08/25/21 02:25	CS	08/23/21 08:30	OP35038A	E4P2476
Run #2							

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	27.2	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	81%		21-121%
321-60-8	2-Fluorobiphenyl	73%		27-107%
1718-51-0	Terphenyl-d14	69%		25-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JD30293-3R	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4P47155.D	1	08/25/21 02:48	CS	08/23/21 08:30	OP35038A	E4P2476
Run #2							

	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	57.3	0.38	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	86%		21-121%
321-60-8	2-Fluorobiphenyl	77%		27-107%
1718-51-0	Terphenyl-d14	79%		25-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	JD30293-4R	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4P47156.D	1	08/25/21 03:11	CS	08/23/21 08:30	OP35038A	E4P2476
Run #2							

	Initial Volume	Final Volume
Run #1	280 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	38.1	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	88%		21-121%
321-60-8	2-Fluorobiphenyl	82%		27-107%
1718-51-0	Terphenyl-d14	85%		25-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	JD30293-5R	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4P47152.D	1	08/25/21 01:38	CS	08/23/21 08:30	OP35038A	E4P2476
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	937	0.40	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	89%		21-121%
321-60-8	2-Fluorobiphenyl	77%		27-107%
1718-51-0	Terphenyl-d14	81%		25-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	JD30293-6R	**Date Sampled:**	08/19/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4P47157.D	1	08/25/21 03:34	CS	08/23/21 08:30	OP35038A	E4P2476
Run #2							

	Initial Volume	Final Volume
Run #1	270 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	35.6	0.37	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		21-121%
321-60-8	2-Fluorobiphenyl	65%		27-107%
1718-51-0	Terphenyl-d14	71%		25-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-1R		
Lab Sample ID:	JD30293-7R	**Date Sampled:**	08/19/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4P47158.D	1	08/25/21 03:57	CS	08/23/21 08:30	OP35038A	E4P2476
Run #2							

	Initial Volume	Final Volume
Run #1	260 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	21.9	0.38	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		21-121%
321-60-8	2-Fluorobiphenyl	70%		27-107%
1718-51-0	Terphenyl-d14	83%		25-118%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

5

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

GW
TB

CHAIN OF CUSTODY

SGS

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-02-FORM-Standard COC

Page 1 of 1

FED-EX Tracking # 9304 4370 9887
Bottle Order Control # TF-08321-146
SGS Quote #
SGS Job # JD30293

Client / Reporting Information

Company Name: Nobis
Street Address: 585 Middlesex St
City: Lowell State: MA Zip: 01851
Project Contact: JBrunelle@nobis-group.com E-mail:
Phone #: 603 508 0084
Sampler(s) Name(s): AE, MC Phone #: 516 674 4272

Project Information

Project Name: 43 Hempstead
Street: 43 Hempstead
City: New London State: CT
Project #: 93203.15
Client Purchase Order #:
Project Manager: Jeff Brunelle
Billing Information (if different from Report to)
Company Name: Same
Street Address:
City State Zip
Attention:

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	VOCs	ETPH	PAH Sim	Pesticides	PCB Sc	RCP Metals + Hg					LAB USE ONLY
1	MW-3	•	8/18/21	1100	MC	G	GW	12	3		1		8				X	X	X	X	X	X					E39
2	FD-01	•		800	MC			12									X	X	X	X	X	X					A32
3	MW-2	•	8	1200	AE			12									X	X	X	X	X	X					V132
4	MW-5	•		1415	MC			12									X	X	X	X	X	X					5
5	MW-6	★		1410	AE			3x6	9		3		24				X	X	X	X	X	X					
6	MW-4	•	8/19/21	1015	MC			12	3		1		8				X	X	X	X	X	X					
7	MW-1R	•	8/19/21	1015	AE			12	1		1		1				X	X	X	X	X	X					
8	Trip Blank		8/4/21	800				2	2								X										

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

INITIAL ASESSMENT KGB
LABEL VERIFICATION

All data available via Lablink
* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria_____
- [ ] CT RCP Criteria_____
- [ ] State Forms
- [ ] EDD Format _____
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

MW-6 MS/MSD
6x 250mL NP Ext
★ 18x250mL NP Ext
SGS-ACCUTEST MARLBOR 8/19

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	8/19/21 1350	1	2	8/19/21 1730	2 FedEx
3	8-20-21 10:00	3	4		4
5		5			

Custody Seal # 02687 02688 02689 02690 ☐ Intact ☐ Not intact
Preserved where applicable ☐ Absent
Therm. ID:
On ice ☒
Cooler Temp. °C 3.1 4.1 CTP 3.8 4.3

JD30293R: Chain of Custody
Page 1 of 4

SGS Sample Receipt Summary

Job Number: JD30293 **Client:** NOBIS ENGINEERING, INC. **Project:** GW: 43 HEMPSTEAD STREET, NEW LONDON

Date / Time Received: 8/19/2021 5:30:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.1); Cooler 2: (4.1); Cooler 3: (3.8); Cooler 4: (4.3);

Cooler Temps (Corrected) °C: Cooler 1: (3.1); Cooler 2: (4.1); Cooler 3: (3.8); Cooler 4: (4.3);

Cooler Security	Y	or N		Y	or N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	or N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:		
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	4	

Quality Control Preservation	Y	or N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	or N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	or N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	or N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify) _____ _____

Comments

SM089-03
Rev. Date 12/7/17

JD30293R: Chain of Custody
Page 2 of 4

Job Change Order: JD30293

Requested Date:	10/11/2021	**Received Date:**	8/19/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	10/11/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	3

==========

Sample #: JD30293-1 thru 7

Dept:

TAT: 3

Change:
Please relog/retrieve for BR8270SIM2MNAP

==========

Above Changes Per: Gary Glennon **Date/Time:** 10/11/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

5.1 5

JD30293R: Chain of Custody
Page 3 of 4

Job Change Order: JD30293

Requested Date:	10/13/2021	**Received Date:**	8/19/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	10/13/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	7

==========

Sample #: JD30293-1 thru 7

Dept:

TAT: 7

Change:
Relog/retrieve for PR8081HEXCBNZ

==========

Above Changes Per: Gary Glennon **Date/Time:** 10/13/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

JD30293R: Chain of Custody
Page 4 of 4

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **SGS North America Inc.** **Client:** **Nobis Engineering, Inc.**

Project Location: **43 Hempstead Street, New London, CT** **Project Number:** **93203.15 / 1000**

Sampling Date(s): **8/18/2021**

Laboratory Sample ID(s): JD30293-1R, JD30293-2R, JD30293-3R, JD30293-4R, JD30293-5R, JD30293-5DR, JD30293-5SR, JD30293-6R, JD30293-7R

Methods: SW846 8270E BY SIM

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

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

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

Authorized Signature: Position: General Manager

Printed Name: Mike Earp Date: 10/14/2021

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD30293R

43 Hempstead Street, New London, CT
Project No: 93203.15

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD30293-1R MW-3	Collected: 18-AUG-21 11:00 By: MC		Received: 19-AUG-21 By: MK			
JD30293-1R	SW846 8270E BY SIM	25-AUG-21 02:02	CS	23-AUG-21	TG	BR8270SIM2MNAP
JD30293-2R FD-01	Collected: 18-AUG-21 08:00 By: MC		Received: 19-AUG-21 By: MK			
JD30293-2R	SW846 8270E BY SIM	25-AUG-21 02:25	CS	23-AUG-21	TG	BR8270SIM2MNAP
JD30293-3R MW-2	Collected: 18-AUG-21 12:00 By: AE		Received: 19-AUG-21 By: MK			
JD30293-3R	SW846 8270E BY SIM	25-AUG-21 02:48	CS	23-AUG-21	TG	BR8270SIM2MNAP
JD30293-4R MW-5	Collected: 18-AUG-21 14:15 By: MC		Received: 19-AUG-21 By: MK			
JD30293-4R	SW846 8270E BY SIM	25-AUG-21 03:11	CS	23-AUG-21	TG	BR8270SIM2MNAP
JD30293-5R MW-6	Collected: 18-AUG-21 14:10 By: AE		Received: 19-AUG-21 By: MK			
JD30293-5R	SW846 8270E BY SIM	25-AUG-21 01:38	CS	23-AUG-21	TG	BR8270SIM2MNAP
JD30293-6R MW-4	Collected: 19-AUG-21 10:15 By: MC		Received: 19-AUG-21 By: MK			
JD30293-6R	SW846 8270E BY SIM	25-AUG-21 03:34	CS	23-AUG-21	TG	BR8270SIM2MNAP
JD30293-7R MW-1R	Collected: 19-AUG-21 10:15 By: AE		Received: 19-AUG-21 By: MK			
JD30293-7R	SW846 8270E BY SIM	25-AUG-21 03:57	CS	23-AUG-21	TG	BR8270SIM2MNAP

QC Evaluation: CT RCP Limits

Job Number: JD30293R
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP35038A	SW846 8270E BY SIM						
OP35038A-BS12	91-57-6	2-Methylnaphthalene	BSP	REC	83	%	40-140
OP35038A-BS12	4165-60-0	Nitrobenzene-d5	BSP	SURR	93	%	30-130
OP35038A-BS12	321-60-8	2-Fluorobiphenyl	BSP	SURR	78	%	30-130
OP35038A-BS12	1718-51-0	Terphenyl-d14	BSP	SURR	87	%	30-130
OP35038A-BSD12	91-57-6	2-Methylnaphthalene	BSD	REC	89	%	40-140
OP35038A-BSD12	91-57-6	2-Methylnaphthalene	BSD	RPD	7	%	20
OP35038A-BSD12	4165-60-0	Nitrobenzene-d5	BSD	SURR	93	%	30-130
OP35038A-BSD12	321-60-8	2-Fluorobiphenyl	BSD	SURR	84	%	30-130
OP35038A-BSD12	1718-51-0	Terphenyl-d14	BSD	SURR	94	%	30-130
OP35038A-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	87	%	30-130
OP35038A-MB1	4165-60-0	Nitrobenzene-d5	MB	SURR	74	%	30-130
OP35038A-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	75	%	30-130
OP35038A-MB1	321-60-8	2-Fluorobiphenyl	MB	SURR	74	%	30-130
OP35038A-MB1	1718-51-0	Terphenyl-d14	MB	SURR	85	%	30-130
OP35038A-MB1	1718-51-0	Terphenyl-d14	MB	SURR	94	%	30-130
JD30293-1R	4165-60-0	Nitrobenzene-d5	SAMP	SURR	78	%	30-130
JD30293-1R	321-60-8	2-Fluorobiphenyl	SAMP	SURR	71	%	30-130
JD30293-1R	1718-51-0	Terphenyl-d14	SAMP	SURR	74	%	30-130
JD30293-2R	4165-60-0	Nitrobenzene-d5	SAMP	SURR	81	%	30-130
JD30293-2R	321-60-8	2-Fluorobiphenyl	SAMP	SURR	73	%	30-130
JD30293-2R	1718-51-0	Terphenyl-d14	SAMP	SURR	69	%	30-130
JD30293-3R	4165-60-0	Nitrobenzene-d5	SAMP	SURR	86	%	30-130
JD30293-3R	321-60-8	2-Fluorobiphenyl	SAMP	SURR	77	%	30-130
JD30293-3R	1718-51-0	Terphenyl-d14	SAMP	SURR	79	%	30-130
JD30293-4R	4165-60-0	Nitrobenzene-d5	SAMP	SURR	88	%	30-130
JD30293-4R	321-60-8	2-Fluorobiphenyl	SAMP	SURR	82	%	30-130
JD30293-4R	1718-51-0	Terphenyl-d14	SAMP	SURR	85	%	30-130
JD30293-5R	4165-60-0	Nitrobenzene-d5	SAMP	SURR	89	%	30-130
JD30293-5R	321-60-8	2-Fluorobiphenyl	SAMP	SURR	77	%	30-130
JD30293-5R	1718-51-0	Terphenyl-d14	SAMP	SURR	81	%	30-130
JD30293-6R	4165-60-0	Nitrobenzene-d5	SAMP	SURR	71	%	30-130
JD30293-6R	321-60-8	2-Fluorobiphenyl	SAMP	SURR	65	%	30-130
JD30293-6R	1718-51-0	Terphenyl-d14	SAMP	SURR	71	%	30-130
JD30293-7R	4165-60-0	Nitrobenzene-d5	SAMP	SURR	76	%	30-130
JD30293-7R	321-60-8	2-Fluorobiphenyl	SAMP	SURR	70	%	30-130
JD30293-7R	1718-51-0	Terphenyl-d14	SAMP	SURR	83	%	30-130

* Sample used for QC is not from job JD30293R

MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD30293R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35038A-MB1	4P47147.D	1	08/24/21	CS	08/23/21	OP35038A	E4P2476

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD30293-1R, JD30293-2R, JD30293-3R, JD30293-4R, JD30293-5R, JD30293-6R, JD30293-7R

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	ND	0.080	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	87%	29-124%
321-60-8	2-Fluorobiphenyl	75%	23-122%
1718-51-0	Terphenyl-d14	85%	22-130%

Method Blank Summary

Job Number: JD30293R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35038A-MB1	3P94778.D	1	08/25/21	CS	08/23/21	OP35038A	E3P4474

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD30293-1R, JD30293-2R, JD30293-3R, JD30293-4R, JD30293-5R, JD30293-6R, JD30293-7R

CAS No.	Compound	Result	RL	Units	Q
91-57-6	2-Methylnaphthalene	ND	0.080	ug/l	

CAS No.	Surrogate Recoveries		Limits
4165-60-0	Nitrobenzene-d5	74%	29-124%
321-60-8	2-Fluorobiphenyl	74%	23-122%
1718-51-0	Terphenyl-d14	94%	22-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD30293R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35038A-BS12	4P47148.D	1	08/25/21	CS	08/23/21	OP35038A	E4P2476
OP35038A-BSD12	4P47149.D	1	08/25/21	CS	08/23/21	OP35038A	E4P2476

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JD30293-1R, JD30293-2R, JD30293-3R, JD30293-4R, JD30293-5R, JD30293-6R, JD30293-7R

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
91-57-6	2-Methylnaphthalene	0.8	0.660	83	0.710	89	7	26-126/37

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
4165-60-0	Nitrobenzene-d5	93%	93%	29-124%
321-60-8	2-Fluorobiphenyl	78%	84%	23-122%
1718-51-0	Terphenyl-d14	87%	94%	22-130%

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD30293R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	E3P4474-CC4467	**Injection Date:**	08/25/21
Lab File ID:	3P94777.D	**Injection Time:**	05:43
Instrument ID:	GCMS3P	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	95594	7.04	120606	8.50	162186	10.63	47795	13.31
Upper Limit [a]	191188	7.54	241212	9.00	324372	11.13	95590	13.81
Lower Limit [b]	47797	6.54	60303	8.00	81093	10.13	23898	12.81

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP35038A-MB1	82799	7.04	109077	8.50	137169	10.63	35151	13.31
ZZZZZZ	76238	7.04	93688	8.50	129287	10.63	41353	13.31
ZZZZZZ	80140	7.04	99303	8.50	135624	10.63	43553	13.31
ZZZZZZ	77980	7.04	93250	8.50	128234	10.63	39719	13.31
ZZZZZZ	85172	7.03	108475	8.50	154198	10.63	58268	13.31
ZZZZZZ	81701	7.03	100693	8.50	145515	10.63	60848	13.31
ZZZZZZ	87904	7.04	108787	8.50	149235	10.63	53473	13.31
ZZZZZZ	77901	7.03	96806	8.50	132309	10.63	41037	13.31
ZZZZZZ	82580	7.03	102557	8.50	138156	10.63	46141	13.31
ZZZZZZ	90153	7.03	110315	8.50	154336	10.63	112016*	13.31

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD30293R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	E4P2476-CC2469	**Injection Date:**	08/24/21
Lab File ID:	4P47146.D	**Injection Time:**	22:31
Instrument ID:	GCMS4P	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	54144	6.57	78161	8.02	137277	10.12	93239	12.75
Upper Limit [a]	108288	7.07	156322	8.52	274554	10.62	186478	13.25
Lower Limit [b]	27072	6.07	39081	7.52	68639	9.62	46620	12.25

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP35038A-MB1	54847	6.56	77707	8.02	134877	10.12	96600	12.75
OP35038A-BS12	55552	6.56	80786	8.02	139597	10.12	94167	12.75
OP35038A-BSD12	57949	6.56	81940	8.02	142120	10.12	97699	12.75
OP35038A-MSA	60608	6.56	87029	8.02	150068	10.12	97044	12.75
OP35038A-MSDA	60063	6.56	88819	8.02	149711	10.12	97279	12.75
JD30293-5R	59930	6.56	86430	8.02	145504	10.12	95833	12.75
JD30293-5	59930	6.56	86430	8.02	145504	10.12	95833	12.75
JD30293-1R	58906	6.56	81416	8.02	141005	10.12	92801	12.75
ZZZZZZ	58906	6.56	81416	8.02	141005	10.12	92801	12.75
ZZZZZZ	56950	6.56	78990	8.02	134786	10.12	93311	12.75
JD30293-2R	56950	6.56	78990	8.02	134786	10.12	93311	12.75
JD30293-3R	55797	6.56	76918	8.02	133288	10.12	91137	12.75
ZZZZZZ	55797	6.56	76918	8.02	133288	10.12	91137	12.75
ZZZZZZ	56228	6.56	77667	8.02	130853	10.12	89857	12.75
JD30293-4R	56228	6.56	77667	8.02	130853	10.12	89857	12.75
ZZZZZZ	56458	6.56	77064	8.02	133211	10.12	90832	12.75
JD30293-6R	56458	6.56	77064	8.02	133211	10.12	90832	12.75
JD30293-7R	55859	6.56	76825	8.02	130103	10.12	89078	12.75
ZZZZZZ	55859	6.56	76825	8.02	130103	10.12	89078	12.75

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JD30293R
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: SW846 8270E BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JD30293-1R	4P47153.D	78	71	74
JD30293-2R	4P47154.D	81	73	69
JD30293-3R	4P47155.D	86	77	79
JD30293-4R	4P47156.D	88	82	85
JD30293-5R	4P47152.D	89	77	81
JD30293-6R	4P47157.D	71	65	71
JD30293-7R	4P47158.D	76	70	83

Surrogate Compounds	Recovery Limits
S1 = Nitrobenzene-d5	21-121%
S2 = 2-Fluorobiphenyl	27-107%
S3 = Terphenyl-d14	25-118%

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Nobis Engineering, Inc.

43 Hempstead Street, New London, CT

93203.15

SGS Job Number: JD30293T

Sampling Dates: 08/18/21 - 08/19/21

Report to:

Nobis Engineering, Inc.
585 Middlesex Street
Lowell, MA 01851
jbrunelle@nobis-group.com; ARoy@nobis-group.com;
gglennon@nobis-group.com
ATTN: Jeff Brunelle

Total number of pages in report: 32

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Mike Earp
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary **3**
Section 2: Case Narrative/Conformance Summary **4**
Section 3: Summary of Hits **5**
Section 4: Sample Results **6**
4.1: JD30293-1T: MW-3 7
4.2: JD30293-2T: FD-01 8
4.3: JD30293-3T: MW-2 9
4.4: JD30293-4T: MW-5 10
4.5: JD30293-5T: MW-6 11
4.6: JD30293-6T: MW-4 12
4.7: JD30293-7T: MW-1R 13
Section 5: Misc. Forms **14**
5.1: Chain of Custody 15
5.2: RCP Form 19
5.3: Sample Tracking Chronicle 20
5.4: QC Evaluation: CT RCP Limits 21
Section 6: GC/LC Semi-volatiles - QC Data Summaries **23**
6.1: Method Blank Summary 24
6.2: Blank Spike/Blank Spike Duplicate Summary 25
6.3: Matrix Spike/Matrix Spike Duplicate Summary 26
6.4: Internal Standard Area Summaries 27
6.5: DDT/Endrin Breakdown Checks 29
6.6: Surrogate Recovery Summaries 32

SGS North America Inc.

Sample Summary

Nobis Engineering, Inc.

Job No: JD30293T

43 Hempstead Street, New London, CT
Project No: 93203.15

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the RL

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD30293-1T	08/18/21	11:00	MC	08/19/21	AQ	Ground Water	MW-3
JD30293-2T	08/18/21	08:00	MC	08/19/21	AQ	Ground Water	FD-01
JD30293-3T	08/18/21	12:00	AE	08/19/21	AQ	Ground Water	MW-2
JD30293-4T	08/18/21	14:15	MC	08/19/21	AQ	Ground Water	MW-5
JD30293-5DT	08/18/21	14:10	AE	08/19/21	AQ	Water Dup/MSD	MW-6
JD30293-5ST	08/18/21	14:10	AE	08/19/21	AQ	Water Matrix Spike	MW-6
JD30293-5T	08/18/21	14:10	AE	08/19/21	AQ	Ground Water	MW-6
JD30293-6T	08/19/21	10:15	MC	08/19/21	AQ	Ground Water	MW-4
JD30293-7T	08/19/21	10:15	AE	08/19/21	AQ	Ground Water	MW-1R

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Nobis Engineering, Inc.	**Job No**	JD30293T
Site:	43 Hempstead Street, New London, CT	**Report Date**	10/26/2021 11:47:13 A

On 08/19/2021, 7 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 4.3 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD30293T was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

GC/LC Semi-volatiles By Method SW846 8081B

Matrix: AQ **Batch ID:** OP35043

- All samples were extracted within the recommended method holding time.
- Sample(s) JD30293-5TMS, JD30293-5TMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Only report Hexachlorobenzene.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD30293T
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD30293-1T	**MW-3**					
Hexachlorobenzene		0.012	0.0082		ug/l	SW846 8081B
JD30293-2T	**FD-01**					
Hexachlorobenzene		0.012	0.0078		ug/l	SW846 8081B
JD30293-3T	**MW-2**					
No hits reported in this sample.						
JD30293-4T	**MW-5**					
No hits reported in this sample.						
JD30293-5T	**MW-6**					
No hits reported in this sample.						
JD30293-6T	**MW-4**					
No hits reported in this sample.						
JD30293-7T	**MW-1R**					
Hexachlorobenzene		0.0088	0.0085		ug/l	SW846 8081B

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	JD30293-1T	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G79156.D	1	08/25/21 03:21	CP	08/24/21 18:00	OP35043	G6G2779
Run #2							

	Initial Volume	Final Volume
Run #1	245 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	0.012	0.0082	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	104%		10-165%
877-09-8	Tetrachloro-m-xylene	100%		10-165%
2051-24-3	Decachlorobiphenyl	55%		28-161%
2051-24-3	Decachlorobiphenyl	68%		28-161%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FD-01		
Lab Sample ID:	JD30293-2T	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G79157.D	1	08/25/21 03:39	CP	08/24/21 18:00	OP35043	G6G2779
Run #2							

	Initial Volume	Final Volume
Run #1	255 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	0.012	0.0078	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	108%		10-165%
877-09-8	Tetrachloro-m-xylene	99%		10-165%
2051-24-3	Decachlorobiphenyl	58%		28-161%
2051-24-3	Decachlorobiphenyl	57%		28-161%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JD30293-3T	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G79158.D	1	08/25/21 03:57	CP	08/24/21 18:00	OP35043	G6G2779
Run #2							

	Initial Volume	Final Volume
Run #1	240 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.0083	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	106%		10-165%
877-09-8	Tetrachloro-m-xylene	96%		10-165%
2051-24-3	Decachlorobiphenyl	73%		28-161%
2051-24-3	Decachlorobiphenyl	75%		28-161%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	JD30293-4T	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G79159.D	1	08/25/21 04:14	CP	08/24/21 18:00	OP35043	G6G2779
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	106%		10-165%
877-09-8	Tetrachloro-m-xylene	101%		10-165%
2051-24-3	Decachlorobiphenyl	67%		28-161%
2051-24-3	Decachlorobiphenyl	68%		28-161%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	JD30293-5T	**Date Sampled:**	08/18/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G79160.D	1	08/25/21 04:32	CP	08/24/21 18:00	OP35043	G6G2779
Run #2							

	Initial Volume	Final Volume
Run #1	235 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.0085	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		10-165%
877-09-8	Tetrachloro-m-xylene	95%		10-165%
2051-24-3	Decachlorobiphenyl	84%		28-161%
2051-24-3	Decachlorobiphenyl	91%		28-161%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	JD30293-6T	**Date Sampled:**	08/19/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G79167.D	1	08/25/21 06:37	CP	08/24/21 18:00	OP35043	G6G2779
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.0080	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	110%		10-165%
877-09-8	Tetrachloro-m-xylene	103%		10-165%
2051-24-3	Decachlorobiphenyl	97%		28-161%
2051-24-3	Decachlorobiphenyl	99%		28-161%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-1R		
Lab Sample ID:	JD30293-7T	**Date Sampled:**	08/19/21
Matrix:	AQ - Ground Water	**Date Received:**	08/19/21
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
Project:	43 Hempstead Street, New London, CT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G79168.D	1	08/25/21 06:55	CP	08/24/21 18:00	OP35043	G6G2779
Run #2							

	Initial Volume	Final Volume
Run #1	235 ml	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	0.0088	0.0085	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	98%		10-165%
877-09-8	Tetrachloro-m-xylene	93%		10-165%
2051-24-3	Decachlorobiphenyl	66%		28-161%
2051-24-3	Decachlorobiphenyl	73%		28-161%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

5

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

GW
TB

CHAIN OF CUSTODY

SGS

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-02-FORM-Standard COC

Page 1 of 1

FED-EX Tracking # 9304 4370 9887
Bottle Order Control # TF-08321-146
SGS Quote #
SGS Job # JD30293

Client / Reporting Information

Company Name: Nobis
Street Address: 585 Middlesex St
City: Lowell State: MA Zip: 01851
Project Contact: JBrunelle@nobis-group.com E-mail:
Phone #: 603 508 0084
Sampler(s) Name(s): AE, MC Phone #: 516 674 4272

Project Information

Project Name: 43 Hempstead
Street: 43 Hempstead
City: New London State: CT
Project #: 93203.15
Client Purchase Order #:
Project Manager: Jeff Brunelle
Attention:

Billing Information (if different from Report to)
Company Name: Same
Street Address:
City State Zip

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	VOCs	ETPH	PAH Sim	Pesticides	PCB Sc	RCP Metals + Hg						LAB USE ONLY
1	MW-3	•	8/18/21	1100	MC	G	GW	12	3		1		8				X	X	X	X	X	X						E39
2	FD-01	•		800	MC			12									X	X	X	X	X	X						A32
3	MW-2	•	8	1200	AE			12									X	X	X	X	X	X						V132
4	MW-5	•		1415	MC			12									X	X	X	X	X	X						5
5	MW-6	★		1410	AE			3x6	9		3		24				X	X	X	X	X	X						
6	MW-4	•	8/19/21	1015	MC			12	3		1		8				X	X	X	X	X	X						
7	MW-1R	•	8/19/21	1015	AE			12	1		1		1				X	X	X	X	X	X						
8	Trip Blank		8/4/21	800				2	2								X											

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

INITIAL ASESSMENT KGB
LABEL VERIFICATION

All data available via Lablink
* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria_____
- [ ] CT RCP Criteria_____
- [ ] State Forms
- [ ] EDD Format _____
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

MW-6 MS/MSD
6x 250mL NP Ext
★ 18x250mL NP Ext
SGS-ACCUTEST MARLBOR 8/19

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1 [signature]	8/19/21 1350	1 [signature]	2 [signature]	8/19/21 1730	2 FedEx
3 [signature]	8-20-21 10:00	3 [signature]	4		4
5		5			

Custody Seal # 02687 02688 02689 02690 — Intact / Not intact
Preserved where applicable — Absent
Therm. ID:
On ice
Cooler Temp. °C: 3.1 4.1 CTP 3.8 4.3

JD30293T: Chain of Custody
Page 1 of 4

SGS Sample Receipt Summary

Job Number: JD30293 **Client:** NOBIS ENGINEERING, INC. **Project:** GW: 43 HEMPSTEAD STREET, NEW LONDON

Date / Time Received: 8/19/2021 5:30:00 PM **Delivery Method:** **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.1); Cooler 2: (4.1); Cooler 3: (3.8); Cooler 4: (4.3);

Cooler Temps (Corrected) °C: Cooler 1: (3.1); Cooler 2: (4.1); Cooler 3: (3.8); Cooler 4: (4.3);

Cooler Security	Y	or N		Y	or N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	or N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:		
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	4	

Quality Control Preservation	Y	or N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	or N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	or N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	or N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Test Strip Lot #s: pH 1-12: 212820 pH 12+: 203117A Other: (Specify) _____ _____

Comments

SM089-03
Rev. Date 12/7/17

5.1

5

JD30293T: Chain of Custody
Page 2 of 4

Job Change Order: JD30293

Requested Date:	10/11/2021	**Received Date:**	8/19/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	10/11/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	3

==========

Sample #: JD30293-1 thru 7

Dept:

TAT: 3

Change:
Please relog/retrieve for BR8270SIM2MNAP

==========

Above Changes Per: Gary Glennon **Date/Time:** 10/11/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

5.1 5

JD30293T: Chain of Custody
Page 3 of 4

Job Change Order: JD30293

Requested Date:	10/13/2021	**Received Date:**	8/19/2021
Account Name:	Nobis Engineering, Inc.	**Due Date:**	10/13/2021
Project Description:	43 Hempstead Street, New London, CT	**Deliverable:**	CTRCP
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	7

==========

Sample #: JD30293-1 thru 7

Dept:

TAT: 7

Change:
Relog/retrieve for PR8081HEXCBNZ

==========

Above Changes Per: Gary Glennon **Date/Time:** 10/13/2021

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Page 1 of 1

5.1 5

JD30293T: Chain of Custody

Page 4 of 4

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **SGS North America Inc.** **Client:** **Nobis Engineering, Inc.**

Project Location: **43 Hempstead Street, New London, CT** **Project Number:** **93203.15 / 1000**

Sampling Date(s): **8/18/2021**

Laboratory Sample ID(s): JD30293-1T, JD30293-2T, JD30293-3T, JD30293-4T, JD30293-5T, JD30293-5DT, JD30293-5ST, JD30293-6T, JD30293-7T

Methods: SW846 8081B

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

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

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

Authorized Signature: Position: General Manager

Printed Name: Mike Earp Date: 10/26/2021

Internal Sample Tracking Chronicle

Nobis Engineering, Inc.

Job No: JD30293T

43 Hempstead Street, New London, CT
Project No: 93203.15

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD30293-1T MW-3	Collected: 18-AUG-21 11:00 By: MC		Received: 19-AUG-21 By: MK			
JD30293-1T	SW846 8081B	25-AUG-21 03:21	CP	24-AUG-21	EAL	PR8081HEXCBNZ
JD30293-2T FD-01	Collected: 18-AUG-21 08:00 By: MC		Received: 19-AUG-21 By: MK			
JD30293-2T	SW846 8081B	25-AUG-21 03:39	CP	24-AUG-21	EAL	PR8081HEXCBNZ
JD30293-3T MW-2	Collected: 18-AUG-21 12:00 By: AE		Received: 19-AUG-21 By: MK			
JD30293-3T	SW846 8081B	25-AUG-21 03:57	CP	24-AUG-21	EAL	PR8081HEXCBNZ
JD30293-4T MW-5	Collected: 18-AUG-21 14:15 By: MC		Received: 19-AUG-21 By: MK			
JD30293-4T	SW846 8081B	25-AUG-21 04:14	CP	24-AUG-21	EAL	PR8081HEXCBNZ
JD30293-5T MW-6	Collected: 18-AUG-21 14:10 By: AE		Received: 19-AUG-21 By: MK			
JD30293-5T	SW846 8081B	25-AUG-21 04:32	CP	24-AUG-21	EAL	PR8081HEXCBNZ
JD30293-6T MW-4	Collected: 19-AUG-21 10:15 By: MC		Received: 19-AUG-21 By: MK			
JD30293-6T	SW846 8081B	25-AUG-21 06:37	CP	24-AUG-21	EAL	PR8081HEXCBNZ
JD30293-7T MW-1R	Collected: 19-AUG-21 10:15 By: AE		Received: 19-AUG-21 By: MK			
JD30293-7T	SW846 8081B	25-AUG-21 06:55	CP	24-AUG-21	EAL	PR8081HEXCBNZ

QC Evaluation: CT RCP Limits

Job Number: JD30293T
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
OP35043	SW846 8081B						
OP35043-BS1	118-74-1	Hexachlorobenzene	BSP	REC	105	%	40-140
OP35043-BS1	877-09-8	Tetrachloro-m-xylene (sig#1)	BSP	SURR	98	%	30-150
OP35043-BS1	877-09-8	Tetrachloro-m-xylene (sig#2)	BSP	SURR	92	%	30-150
OP35043-BS1	2051-24-3	Decachlorobiphenyl (sig#1)	BSP	SURR	59	%	30-150
OP35043-BS1	2051-24-3	Decachlorobiphenyl (sig#2)	BSP	SURR	65	%	30-150
OP35043-BSD	118-74-1	Hexachlorobenzene	BSD	REC	100	%	40-140
OP35043-BSD	877-09-8	Tetrachloro-m-xylene (sig#1)	BSD	SURR	80	%	30-150
OP35043-BSD	877-09-8	Tetrachloro-m-xylene (sig#2)	BSD	SURR	74	%	30-150
OP35043-BSD	2051-24-3	Decachlorobiphenyl (sig#1)	BSD	SURR	53	%	30-150
OP35043-BSD	2051-24-3	Decachlorobiphenyl (sig#2)	BSD	SURR	61	%	30-150
OP35043-MS	118-74-1	Hexachlorobenzene	MS	REC	110	%	30-150
OP35043-MS	877-09-8	Tetrachloro-m-xylene (sig#1)	MS	SURR	97	%	30-150
OP35043-MS	877-09-8	Tetrachloro-m-xylene (sig#2)	MS	SURR	91	%	30-150
OP35043-MS	2051-24-3	Decachlorobiphenyl (sig#1)	MS	SURR	69	%	30-150
OP35043-MS	2051-24-3	Decachlorobiphenyl (sig#2)	MS	SURR	85	%	30-150
OP35043-MSD	118-74-1	Hexachlorobenzene	MSD	REC	85	%	30-150
OP35043-MSD	118-74-1	Hexachlorobenzene	MSD	RPD	24	%	30
OP35043-MSD	877-09-8	Tetrachloro-m-xylene (sig#1)	MSD	SURR	100	%	30-150
OP35043-MSD	877-09-8	Tetrachloro-m-xylene (sig#2)	MSD	SURR	93	%	30-150
OP35043-MSD	2051-24-3	Decachlorobiphenyl (sig#1)	MSD	SURR	81	%	30-150
OP35043-MSD	2051-24-3	Decachlorobiphenyl (sig#2)	MSD	SURR	87	%	30-150
OP35043-MB1	877-09-8	Tetrachloro-m-xylene (sig#1)	MB	SURR	82	%	30-150
OP35043-MB1	877-09-8	Tetrachloro-m-xylene (sig#2)	MB	SURR	83	%	30-150
OP35043-MB1	2051-24-3	Decachlorobiphenyl (sig#1)	MB	SURR	66	%	30-150
OP35043-MB1	2051-24-3	Decachlorobiphenyl (sig#2)	MB	SURR	72	%	30-150
JD30293-1T	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	104	%	30-150
JD30293-1T	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	100	%	30-150
JD30293-1T	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	55	%	30-150
JD30293-1T	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	68	%	30-150
JD30293-2T	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	108	%	30-150
JD30293-2T	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	99	%	30-150
JD30293-2T	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	58	%	30-150
JD30293-2T	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	57	%	30-150
JD30293-3T	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	106	%	30-150
JD30293-3T	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	96	%	30-150
JD30293-3T	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	73	%	30-150
JD30293-3T	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	75	%	30-150
JD30293-4T	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	106	%	30-150
JD30293-4T	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	101	%	30-150
JD30293-4T	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	67	%	30-150
JD30293-4T	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	68	%	30-150
JD30293-5T	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	99	%	30-150

* Sample used for QC is not from job JD30293T

QC Evaluation: CT RCP Limits

Job Number: JD30293T
Account: Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT
Collected: 08/18/21 thru 08/19/21

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
JD30293-5T	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	95	%	30-150
JD30293-5T	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	84	%	30-150
JD30293-5T	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	91	%	30-150
JD30293-6T	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	110	%	30-150
JD30293-6T	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	103	%	30-150
JD30293-6T	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	97	%	30-150
JD30293-6T	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	99	%	30-150
JD30293-7T	877-09-8	Tetrachloro-m-xylene (sig#1)	SAMP	SURR	98	%	30-150
JD30293-7T	877-09-8	Tetrachloro-m-xylene (sig#2)	SAMP	SURR	93	%	30-150
JD30293-7T	2051-24-3	Decachlorobiphenyl (sig#1)	SAMP	SURR	66	%	30-150
JD30293-7T	2051-24-3	Decachlorobiphenyl (sig#2)	SAMP	SURR	73	%	30-150

* Sample used for QC is not from job JD30293T

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- DDT/Endrin Breakdown Checks
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD30293T
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35043-MB1	6G79150.D	1	08/25/21	CP	08/24/21	OP35043	G6G2779

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD30293-1T, JD30293-2T, JD30293-3T, JD30293-4T, JD30293-5T, JD30293-6T, JD30293-7T

CAS No.	Compound	Result	RL	Units	Q
118-74-1	Hexachlorobenzene	ND	0.0080	ug/l	

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	82%	10-165%
877-09-8	Tetrachloro-m-xylene	83%	10-165%
2051-24-3	Decachlorobiphenyl	66%	28-161%
2051-24-3	Decachlorobiphenyl	72%	28-161%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD30293T
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35043-BS1	6G79151.D	1	08/25/21	CP	08/24/21	OP35043	G6G2779
OP35043-BSD	6G79152.D	1	08/25/21	CP	08/24/21	OP35043	G6G2779

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD30293-1T, JD30293-2T, JD30293-3T, JD30293-4T, JD30293-5T, JD30293-6T, JD30293-7T

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
118-74-1	Hexachlorobenzene	0.2	0.21	105	0.20	100	5	14-159/91

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	98%	80%	10-165%
877-09-8	Tetrachloro-m-xylene	92%	74%	10-165%
2051-24-3	Decachlorobiphenyl	59%	53%	28-161%
2051-24-3	Decachlorobiphenyl	65%	61%	28-161%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD30293T
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP35043-MS	6G79161.D	1	08/25/21	CP	08/24/21	OP35043	G6G2779
OP35043-MSD	6G79162.D	1	08/25/21	CP	08/24/21	OP35043	G6G2779
JD30293-5T	6G79160.D	1	08/25/21	CP	08/24/21	OP35043	G6G2779

The QC reported here applies to the following samples: **Method:** SW846 8081B

JD30293-1T, JD30293-2T, JD30293-3T, JD30293-4T, JD30293-5T, JD30293-6T, JD30293-7T

CAS No.	Compound	JD30293-5T ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
118-74-1	Hexachlorobenzene	0.0063		0.204	0.23	110	0.204	0.18	85	24	10-200/53

CAS No.	Surrogate Recoveries	MS	MSD	JD30293-5T	Limits
877-09-8	Tetrachloro-m-xylene	97%	100%	99%	10-165%
877-09-8	Tetrachloro-m-xylene	91%	93%	95%	10-165%
2051-24-3	Decachlorobiphenyl	69%	81%	84%	28-161%
2051-24-3	Decachlorobiphenyl	85%	87%	91%	28-161%

* = Outside of Control Limits.

Internal Standard Area Summary

Job Number: JD30293T
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	G6G2779-CC2739	**Injection Date:**	08/24/21
Lab File ID:	6G79144.D	**Injection Time:**	22:44
Instrument ID:	GC6G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	447479502	2.18	704802204	1.83
Upper Limit [a]	894959004	2.68	1409604408	2.33
Lower Limit [b]	223739751	1.68	352401102	1.33

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
OP35045A-MB1	409613983	2.18	607673732	1.83
OP35045A-BS1	474625715	2.18	725778546	1.83
OP35045A-BSD	441117518	2.18	717898725	1.83
ZZZZZZ	445513821	2.18	725246339	1.83
OP35043-MB1	425930676	2.18	678077136	1.83
OP35043-BS1	433942049	2.18	705666310	1.83
OP35043-BSD	462634422	2.18	731809378	1.83
ZZZZZZ	413303439	2.18	767661082	1.83
ZZZZZZ	290841610	2.18	461926996	1.83
ZZZZZZ	568520954	2.18	896293180	1.83
ZZZZZZ	442076542	2.18	692341504	1.83
JD30293-1T	442076542	2.18	692341504	1.83
JD30293-2T	463129639	2.18	722571240	1.83
ZZZZZZ	463129639	2.18	722571240	1.83
ZZZZZZ	454949508	2.18	700200616	1.83
JD30293-3T	454949508	2.18	700200616	1.83
JD30293-4T	475599468	2.18	737033312	1.83
ZZZZZZ	475599468	2.18	737033312	1.83
JD30293-5T	443724674	2.18	703995662	1.83
ZZZZZZ	443724674	2.18	703995662	1.83
OP35043-MS	453347540	2.18	701094177	1.83
OP35043-MSD	448305702	2.18	694137093	1.83

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JD30293T
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Check Std:	G6G2779-CC2739	**Injection Date:**	08/25/21
Lab File ID:	6G79165.D	**Injection Time:**	06:01
Instrument ID:	GC6G	**Method:**	SW846 8081B

	IS 1 AREA	RT	IS 2 AREA	RT
Check Std	473858625	2.18	798252711	1.83
Upper Limit [a]	947717250	2.68	1596505422	2.33
Lower Limit [b]	236929313	1.68	399126356	1.33

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
ZZZZZZ	444744821	2.18	710832069	1.83
JD30293-6T	444744821	2.18	710832069	1.83
ZZZZZZ	470998858	2.18	750524322	1.83
JD30293-7T	470998858	2.18	750524322	1.83
ZZZZZZ	523785376	2.18	892467045	1.83
ZZZZZZ	464795024	2.18	867156155	1.83

IS 1 = 1-Bromo-2-nitrobenzene (Signal #2)
IS 2 = 1-Bromo-2-nitrobenzene (Signal #1)

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

DDT/Endrin Breakdown Check

Job Number: JD30293T
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample: G6G2739-DDT
Lab File ID: 6G78514.D
Instrument ID: GC6G
Injection Date: 06/18/21
Injection Time: 03:27

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	14125074	6213265
4,4'-DDE	18705711	10181979
4,4'-DDT	1195238245	620563455
DDT Breakdown [a]	2.7 %	2.6 %
Endrin aldehyde	0	0
Endrin ketone	6569129	4036389
Endrin	774861152	383466685
Endrin Breakdown [b]	0.8 %	1 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G6G2739-IC2739	6G78516A.D	06/18/21	04:31	01:04	Initial cal 1
G6G2739-IC2739	6G78517.D	06/18/21	04:49	01:22	Initial cal 2
G6G2739-IC2739	6G78518.D	06/18/21	05:07	01:41	Initial cal 5
G6G2739-IC2739	6G78519.D	06/18/21	05:26	01:59	Initial cal 10
G6G2739-ICC2739	6G78520.D	06/18/21	05:44	02:17	Initial cal 25
G6G2739-IC2739	6G78521.D	06/18/21	06:02	02:36	Initial cal 50
G6G2739-IC2739	6G78522.D	06/18/21	06:21	02:54	Initial cal 75
G6G2739-IC2739	6G78523.D	06/18/21	06:39	03:12	Initial cal 100
G6G2739-IC2739	6G78524.D	06/18/21	06:57	03:31	Initial cal 500
G6G2739-IC2739	6G78525.D	06/18/21	07:16	03:49	Initial cal 500
G6G2739-ICV2739	6G78526.D	06/18/21	07:34	04:07	Initial cal verification 25
G6G2739-ICV2739	6G78527.D	06/18/21	07:52	04:25	Initial cal verification 500
G6G2739-ICV2739	6G78528.D	06/18/21	08:10	04:44	Initial cal verification 500
G6G2739-ICV2739	6G78529.D	06/18/21	08:29	05:02	Initial cal verification 25
G6G2739-ICV2739	6G78530.D	06/18/21	08:47	05:20	Initial cal verification 25
G6G2740-CC2739	6G78531.D	06/18/21	09:05	05:39	Continuing cal 25
G6G2740-CC2739	6G78533.D	06/18/21	09:42	06:15	Continuing cal 50

DDT/Endrin Breakdown Check

Job Number: JD30293T
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample: G6G2779-DDT
Lab File ID: 6G79143.D
Instrument ID: GC6G
Injection Date: 08/24/21
Injection Time: 22:26

Compound	Response Signal 1	Response Signal 2
4,4'-DDD	17544805	7495520
4,4'-DDE	20271519	12495690
4,4'-DDT	1540665054	845043932
DDT Breakdown [a]	2.4 %	2.3 %
Endrin aldehyde	4755161	3421537
Endrin ketone	9284353	3264357
Endrin	954676174	491550085
Endrin Breakdown [b]	1.4 %	1.3 %

(a) Calculated as: (DDD + DDE) / (DDD + DDE + DDT) x 100
(b) Calculated as: (Endrin Aldehyde + Endrin Ketone) / (Endrin Aldehyde + Endrin Ketone + Endrin) x 100

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
G6G2779-CC2739	6G79144.D	08/24/21	22:44	00:18	Continuing cal 50
OP35045A-MB1	6G79146.D	08/25/21	00:09	01:43	Method Blank
OP35045A-BS1	6G79147.D	08/25/21	00:26	02:01	Blank Spike
OP35045A-BSD	6G79148.D	08/25/21	00:44	02:18	Blank Spike Duplicate
ZZZZZZ	6G79149.D	08/25/21	01:02	02:36	(unrelated sample)
OP35043-MB1	6G79150.D	08/25/21	01:35	03:09	Method Blank
OP35043-BS1	6G79151.D	08/25/21	01:53	03:27	Blank Spike
OP35043-BSD	6G79152.D	08/25/21	02:10	03:44	Blank Spike Duplicate
ZZZZZZ	6G79153.D	08/25/21	02:28	04:02	(unrelated sample)
ZZZZZZ	6G79154.D	08/25/21	02:45	04:20	(unrelated sample)
ZZZZZZ	6G79155.D	08/25/21	03:03	04:37	(unrelated sample)
JD30293-1T	6G79156.D	08/25/21	03:21	04:55	MW-3
ZZZZZZ	6G79156.D	08/25/21	03:21	04:55	(unrelated sample)
ZZZZZZ	6G79157.D	08/25/21	03:39	05:13	(unrelated sample)
JD30293-2T	6G79157.D	08/25/21	03:39	05:13	FD-01
JD30293-3T	6G79158.D	08/25/21	03:57	05:31	MW-2
ZZZZZZ	6G79158.D	08/25/21	03:57	05:31	(unrelated sample)
JD30293-4T	6G79159.D	08/25/21	04:14	05:49	MW-5
ZZZZZZ	6G79159.D	08/25/21	04:14	05:49	(unrelated sample)
ZZZZZZ	6G79160.D	08/25/21	04:32	06:06	(unrelated sample)
JD30293-5T	6G79160.D	08/25/21	04:32	06:06	MW-6
OP35043-MS	6G79161.D	08/25/21	04:50	06:24	Matrix Spike
OP35043-MSD	6G79162.D	08/25/21	05:08	06:42	Matrix Spike Duplicate
G6G2779-CC2739	6G79165.D	08/25/21	06:01	07:35	Continuing cal 25

DDT/Endrin Breakdown Check

Job Number: JD30293T
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Sample: G6G2779-DDT
Lab File ID: 6G79143.D
Instrument ID: GC6G
Injection Date: 08/24/21
Injection Time: 22:26

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	6G79167.D	08/25/21	06:37	08:11	(unrelated sample)
JD30293-6T	6G79167.D	08/25/21	06:37	08:11	MW-4
ZZZZZZ	6G79168.D	08/25/21	06:55	08:29	(unrelated sample)
JD30293-7T	6G79168.D	08/25/21	06:55	08:29	MW-1R
ZZZZZZ	6G79169.D	08/25/21	07:12	08:46	(unrelated sample)
ZZZZZZ	6G79170.D	08/25/21	07:30	09:04	(unrelated sample)

Surrogate Recovery Summary

Job Number: JD30293T
Account: NEIMAL Nobis Engineering, Inc.
Project: 43 Hempstead Street, New London, CT

Method: SW846 8081B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]	S2 [a]	S2 [b]
JD30293-1T	6G79156.D	104	100	55	68
JD30293-2T	6G79157.D	108	99	58	57
JD30293-3T	6G79158.D	106	96	73	75
JD30293-4T	6G79159.D	106	101	67	68
JD30293-5T	6G79160.D	99	95	84	91
JD30293-6T	6G79167.D	110	103	97	99
JD30293-7T	6G79168.D	98	93	66	73
OP35043-BS1	6G79151.D	98	92	59	65
OP35043-BSD	6G79152.D	80	74	53	61
OP35043-MB1	6G79150.D	82	83	66	72
OP35043-MS	6G79161.D	97	91	69	85
OP35043-MSD	6G79162.D	100	93	81	87

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	10-165%
S2 = Decachlorobiphenyl	28-161%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2

Groundwater Sampling Logs

APPENDIX D

Low-Flow Field Log

Nobis
Engineering a Sustainable Future

Site Name: 43 Hempstead
Job Number: 93203.15
Sampler: AE

Date: 8/19/2021

Page: 1 of

Well ID: **MW-1R**
Sample ID:
Reviewed By:

Measurement Reference Point (MP): pvc (PVC, Casing, Ground, etc.)
Depth to GW: 10.16 (ft from MP)
Depth to Bottom: 17 (ft from MP)
Pump Intake Depth: 15 (ft from MP)
Well depth as installed: (ft bgs)
Screen interval (range): (ft bgs)

Purging start time: 853
Parameter stabalization (Y/N): Y
Two hour time limit reached (Y/N): n
Sample time: 1015
Total volume purged (gals): 2
Time at purge completion: 1100

Equipment Vendor:
Pump Type:
Turbidity Meter:
Serial #:
Multimeter:
Serial #:

Notes (Initial PID reading, SOP deviations, etc.):

Lab Analyses:
QC Info (Duplicate, MS/MSD)

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	oC	µS/cmc		mV	mg/L	NTU		
855		200	10.51	0.35	0.35								
900		140	10.90	0.39	0.74	18.50	463	6.37	180.2	2.33	99.7		
905		120	11.05	0.15	0.89	18.90	456	6.11	170.9	2.40	261		
910		120	11.05	0.00	0.89	18.90	449	6.00	159.8	2.39	282		Not Stable
915		120	11.05	0.00	0.89	18.90	448	5.96	146.6	2.33	359		Not Stable
920		120	11.05	0.00	0.89	18.90	444	5.95	134.6	2.36	259		Not Stable
925		120	11.05	0.00	0.89	18.80	444	5.94	122.3	2.36	282		Not Stable
930		120	11.12	0.07	0.96	19.30	443	5.95	110.6	2.39	260		Not Stable
935		120	11.12	0.00	0.96	19.20	445	5.96	103.8	2.35	246		Not Stable
940		120	11.12	0.00	0.96	18.90	445	5.96	98.7	2.35	204		Not Stable
945		120	11.12	0.00	0.96	19.30	444	5.96	94.9	2.36	178		Not Stable
950		120	11.12	0.00	0.96	19.40	444	5.96	91.9	2.29	152		Not Stable
955		120	11.12	0.00	0.96	19.20	443	5.97	89.6	2.31	119		Not Stable
1000		120	11.12	0.00	0.96	19.00	444	5.97	88.3	2.27	97.2		Not Stable
1005		120	11.12	0.00	0.96	18.70	446	5.97	86.9	2.25	126		Not Stable
1010		120	11.12	0.00	0.96	18.90	444	5.97	85.4	2.23	132		Not Stable
1015		120	11.12	0.00	0.96	18.90	445	5.98	84.1	2.26	119		Stable

SOP No: SA-003 Draft Revision: 4

Low-Flow Field Log

Nobis
Engineering a Sustainable Future

Site Name: 43 hempstead
Job Number: 93203.15
Sampler: AE

Date: 8/18/2021

Page: 1 of

Well ID: **MW-2**
Sample ID:
Reviewed By:

Measurement Reference Point (MP): pvc (PVC, Casing, Ground, etc.)
Depth to GW: 9.08 (ft from MP)
Depth to Bottom: (ft from MP)
Pump Intake Depth: (ft from MP)
Well depth as installed: (ft bgs)
Screen interval (range): (ft bgs)

Purging start time: `1050
Parameter stabalization (Y/N): Y
Two hour time limit reached (Y/N): N
Sample time: `1200
Total volume purged (gals): 2.5
Time at purge completion:

Equipment Vendor:
Pump Type:
Turbidity Meter:
Serial #:
Multimeter:
Serial #:

Notes (Initial PID reading, SOP deviations, etc.):

Lab Analyses:
QC Info (Duplicate, MS/MSD)

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	oC	µS/cmc		mV	mg/L	NTU		
		125	10.30	1.22	1.22							purged turbid water before hooking up to YSI	
1115		125	10.30	0.00	1.22	21.30	431	6.13	16.1	1.43	307		
1120		120	10.30	0.00	1.22	19.90	419	6.11	10.3	0.94	609		
1125		120	10.30	0.00	1.22	19.70	415	6.13	2.7	0.93	471		Not Stable
1130		120	10.30	0.00	1.22	19.30	407	6.11	-2.4	0.72	214		Not Stable
1135		120	10.35	0.05	1.27	19.10	404	6.13	-6.3	0.64	139		Not Stable
1140		120	10.35	0.00	1.27	19.00	403	6.13	-7.5	0.59	86.4		Not Stable
1145		120	10.35	0.00	1.27	18.80	402	6.13	-8.6	0.55	32.2		Not Stable
1150		120	10.38	0.03	1.30	19.00	402	6.12	-8.8	0.52	1.06		Not Stable
1155		120	10.38	0.00	1.30	19.00	405	6.12	-9.8	0.48	0.02		Not Stable
1200		120	10.38	0.00	1.30	18.80	403	6.11	-9.6	0.48	1.06		Stable

SOP No: SA-003 Draft Revision: 4

Low-Flow Field Log

Site Name: 43 Hempstead St
Job Number: 93203.15
Sampler: MC

Date: 8/18/2021
Page: 1 of
Well ID: MW-3
Sample ID:
Reviewed By:

Measurement Reference Point (MP): PVC (PVC, Casing, Ground, etc.)
Depth to GW: 7.5 (ft from MP)
Depth to Bottom: 11 (ft from MP)
Pump Intake Depth: 10.5 (ft from MP)
Well depth as installed: (ft bgs)
Screen interval (range): (ft bgs)

Purging start time: 10:00
Parameter stabalization (Y/N): Y
Two hour time limit reached (Y/N): N
Sample time: 11:00
Total volume purged (gals): 1.5
Time at purge completion: 10:55

Equipment Vendor: US Environmental
Pump Type: peristaltic
Turbidity Meter: Geotech
Serial #: 18091874
Multimeter: YSI
Serial #: 18C103635

Notes (Initial PID reading, SOP deviations, etc.):

Lab Analyses: VOCs, ETPH, PAHs, Pesticides, PCBs, RCP Total Metals & Mercury
QC Info (Duplicate, MS/MSD): FD-01

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	oC	µS/cmc		mV	mg/L	NTU		
1010		160	7.50	0.00	0.00							very silty, purge without YSI	
1020		160	7.50	0.00	0.00	19.80	846	6.71	-65.4	0.47	227		
1025		160	7.86	0.36	0.36	20.10	851	6.50	-65.1	0.32	250		
1030		160	8.06	0.20	0.56	20.30	852	6.48	-71.2	0.24	101		Not Stable
1035		100	8.38	0.32	0.88	20.70	851	6.47	-73.9	0.22	179		Not Stable
1040		100	8.52	0.14	1.02	20.90	852	6.46	-74.3	0.24	2.42		Not Stable
1045						21.00	853	6.46	-73.6	0.28	1.28		Not Stable
1050		80	8.57	8.57	#VALUE!	21.20	853	6.45	-72.5	0.30	0.25		Stable

SOP No: SA-003 Draft Revision: 4

Low-Flow Field Log

Site Name: 43 Hempstead St
Job Number: 93203.15
Sampler: MC

Date: 8/19/2021
Page: 1 of
Well ID: MW-4
Sample ID:
Reviewed By:

Measurement Reference Point (MP): PVC (PVC, Casing, Ground, etc.)
Depth to GW: 8.7 (ft from MP)
Depth to Bottom: 17.7 (ft from MP)
Pump Intake Depth: 17 (ft from MP)
Well depth as installed: (ft bgs)
Screen interval (range): (ft bgs)

Purging start time: 8:55
Parameter stabalization (Y/N): Y
Two hour time limit reached (Y/N): N
Sample time: 10:15
Total volume purged (gals): 3
Time at purge completion: 10:05

Equipment Vendor: US Environmental
Pump Type: peristaltic
Turbidity Meter: Geotech
Serial #: 17061391
Multimeter: YSI
Serial #: 19K100091

Notes (Initial PID reading, SOP deviations, etc.):

Lab Analyses: VOCs, ETPH, PAHs, Pesticides, PCBs, RCP Total Metals & Mercury
QC Info (Duplicate, MS/MSD)

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	oC	µS/cmc		mV	mg/L	NTU		
855			8.70	0.00	0.00							clear, no odor no sheen	
900		120	9.30	0.60	0.60	18.70	696	6.12	-11.5	1.34	9.29		
905		120	9.95	0.65	1.25	18.40	683	6.14	-8.6	1.33	16.4		
910		100	10.25	0.30	1.55	18.40	680	6.16	-4.4	1.38	11.8		Not Stable
915		100				18.60	684	6.18	-12.3	1.31	9.76		Not Stable
920		160	10.40	10.40	#VALUE!	18.40	679	6.20	-20.8	1.26	10.5		Not Stable
925		120	10.55	0.15	#VALUE!	18.40	676	6.21	-20	1.34	12.1		Not Stable
930		120				18.40	677	6.21	-28.8	1.34	12.9		Not Stable
935		120	10.60	10.60	#VALUE!	18.40	673	6.21	-26.1	1.39	11.3		Not Stable
940		120				18.20	670	6.22	-42.4	1.36	12.4		Not Stable
945		120	10.65	10.65	#VALUE!	18.20	667	6.21	-30.2	1.39	11.7		Not Stable
950		120				18.20	667	6.21	-25.3	1.42	11.6		Not Stable
955		120				18.20	665	6.20	-21.8	1.44	15.2		Not Stable
1000		120	10.70	10.70	#VALUE!	18.00	660	6.20	-16.3	1.43	15.7		Not Stable
1005		120				17.90	656	6.19	-14	1.43	15.1		Stable

SOP No: SA-003 Draft Revision: 4

Low-Flow Field Log

Site Name: 43 Hempstead St
Job Number: 93203.15
Sampler: MC

Date: 8/18/2021
Page: 1 of
Well ID: MW-5
Sample ID:
Reviewed By:

Measurement Reference Point (MP): PVC (PVC, Casing, Ground, etc.)
Depth to GW: 10.65 (ft from MP)
Depth to Bottom: 14.7 (ft from MP)
Pump Intake Depth: 14.5-14.0 (ft from MP)
Well depth as installed: (ft bgs)
Screen interval (range): (ft bgs)

Purging start time: 13:00
Parameter stabalization (Y/N): Y
Two hour time limit reached (Y/N): N
Sample time: 14:15
Total volume purged (gals): 2
Time at purge completion: 14:05

Equipment Vendor: US Environmental
Pump Type: peristaltic

Turbidity Meter: Geotech
Serial #: 18091874

Multimeter: YSI
Serial #: 18C103635

Notes (Initial PID reading, SOP deviations, etc.):

Lab Analyses: VOCs, ETPH, PAHs, Pesticides, PCBs, RCP Total Metals & Mercury

QC Info (Duplicate, MS/MSD): FD-01

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	oC	µS/cmc		mV	mg/L	NTU		
1300		140	10.65	0.00	0.00								
1310		80	11.52	0.87	0.87	18.60	506	6.59	13.3	0.30	752		
1315		80	11.60	0.08	0.95	19.30	504	6.44	9.0	0.29	828		
1320		100	11.65	0.05	1.00	19.40	502	6.39	9.8	0.51	1020	Pump stopped, clogged due to silt in tubing and	Not Stable
1325												flow through cell.	
1330													
1335						19.80	500	6.49	29.9	1.02	26.3		Stable
1340		100	11.85	11.85	#VALUE!	19.60	501	6.29	25.4	0.75	14.2		Not Stable
1345		100	12.50	0.65	#VALUE!	18.60	501	6.26	25.2	0.95	10.4		Not Stable
1350		80	12.30	-0.20	#VALUE!	18.70	500	6.24	26.0	1.35	4.48		Not Stable
1355		80	12.35	0.05	#VALUE!	19.20	502	6.24	26.2	1.54	2.92		Not Stable
1400						19.40	505	6.25	25.7	1.55	1.84		Not Stable
1405						19.20	507	6.25	25.1	1.59	0.80		Stable

SOP No: SA-003 Draft Revision: 4

Low-Flow Field Log

Nobis
Engineering a Sustainable Future

Site Name: 43 Hempsead
Job Number: 93203.15
Sampler: AE

Date: 8/18/2021

Page: 1 of

Well ID: **MW-6**
Sample ID:
Reviewed By:

Measurement Reference Point (MP): pvc (PVC, Casing, Ground, etc.)
Depth to GW: 11.25 (ft from MP)
Depth to Bottom: 15.7 (ft from MP)
Pump Intake Depth: (ft from MP)
Well depth as installed: (ft bgs)
Screen interval (range): (ft bgs)

Purging start time: 1312
Parameter stabalization (Y/N): Y
Two hour time limit reached (Y/N): N
Sample time: 1410
Total volume purged (gals): 1.5
Time at purge completion: 0:00

Equipment Vendor:
Pump Type:
Turbidity Meter:
Serial #:
Multimeter:
Serial #:

Notes (Initial PID reading, SOP deviations, etc.):

Lab Analyses:
QC Info (Duplicate, MS/MSD)

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	oC	µS/cmc		mV	mg/L	NTU		
1320		120	11.83	0.58	0.58								
1325		120	12.20	0.37	0.95	19.40	377	6.39	-277	0.85	19.1		
1330		120	12.20	0.00	0.95	20.00	368	6.35	-182.2	0.71	10.6		
1335		120	12.20	0.00	0.95	20.20	349	6.29	-125.7	0.60	4.45		Not Stable
1340		120	12.20	0.00	0.95	20.30	346	6.26	-108.9	0.61	3.52		Not Stable
1345		120	12.20	0.00	0.95	19.70	339	6.25	-88.3	0.63	6.91		Not Stable
1350		120	12.20	0.00	0.95	19.50	336	6.25	-77.2	0.55	6.43		Not Stable
1355		120	12.20	0.00	0.95	19.30	334	6.25	-74.2	0.47	7.79		Not Stable
1400		120	12.20	0.00	0.95	19.30	335	6.25	-70.3	0.43	3.27		Not Stable
1405		120	12.20	0.00	0.95	19.50	337	6.25	-66.4	0.40	4.82		Not Stable
1410		120	12.20	0.00	0.95	19.50	338	6.25	-63.9	0.39	4.21		Stable

SOP No: SA-003 Draft Revision: 4

Data Validation Memorada

APPENDIX E

November 12, 2021
Nobis File No. 93203

Mr. James Byrne
USEPA – Region 1
Land, Chemicals, and Redevelopment Division
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Re: USEPA Contract No. EP-S1-17-01
USEPA Task Order No. 68HE0119F0009
Targeted Brownfields Assessment (TBA)
43 Hempstead Street Site
New London, Connecticut
Sample Delivery Group (SDG) No. JD29693
SGS North America, Inc., Dayton, NJ

Tier 1 Stage 2A Organic and Inorganic Data Review

Volatile Organic Compounds (VOCs by 8260D), Polycyclic Aromatic Hydrocarbons (PAHs by 8270E-SIM), Pesticides by 8081B, Polychlorinated Biphenyls (PCBs by 8082A), Metals (Reasonable Confidence Protocol [RCP]-15 Metals) by 6010D/7471B), Extractable Total Petroleum Hydrocarbons (ETPH by CT ETPH)

21/Soil Samples B-2-0002, B-2-0507, B-3-0002, B-3-0305, B-7-0002, B-7-0507, B-8-0002, B-8-0507, B-9-0002, B-9-0305, B-10-0002, B-10-0204, MW-1R-0002, MW-1R-0406, MW-4-0002, MW-4-0204, MW-5-0002, MW-05-0810, MW-6-0002, MW-6-0305, FD-01-20210809
1/Field Duplicate Pair: B-8-0002 / FD-01-20210809
1/Aqueous Trip Blank: TB-01

Dear Mr. Byrne:

Nobis Group (Nobis), under a USEPA contract as a subcontractor to KGSNE JV, LLC, performed a Tier 1 Stage 2A manual data review (S2AVM) on the organic and inorganic analytical data for the samples listed above. The samples were collected by Nobis at the 43 Hempstead Street Site located in New London, Connecticut on August 9 and 10, 2021. The samples were analyzed for VOCs by EPA Method 8260D, PAHs by EPA Method 8270E-SIM, Pesticides by EPA Method 8081B, PCBs by EPA Method 8082A, RCP-15 Metals by EPA Method 6010D/7471B, and ETPH by CT ETPH by SGS North America, Inc. in Dayton, NJ.

The Tier 1 Stage 2A manual data review was performed in accordance with the Region 1 - EPA New England Environmental Data Review Supplement for Region 1 Data Review Elements and Superfund Specific Guidance/Procedures (September 2020); USEPA's National Functional Guidelines for Organic Superfund Methods Data Review (January 2017); USEPA's National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017); the Program Quality Assurance Project Plan (Program QAPP) (RFA# 17078), dated May 17, 2017, and the Quality Assurance Project Plan Addendum QAPPA) (July 2021) for the 43 Hempstead Street Site, which appends the May 2017 Program QAPP.

Nobis Group®
585 Middlesex Street
Lowell, MA 01851
T (978) 683-0891

The data were evaluated based on the following parameters:

*	•	Overall Evaluation of Data and Potential Usability Issues
*	•	Data Completeness
*	•	Preservation and Technical Holding Times
*	•	Blanks
	•	Surrogates (organic analyses only)
NA	•	Internal Standards
	•	Matrix Spike Analysis
NA	•	Laboratory Duplicates
*	•	Laboratory Control Samples (LCS)
	•	Field Duplicates
	•	ICP Serial Dilutions (metals only)
NA	•	Performance Evaluation (PE) Samples
	•	Target Analyte Identification
*	•	Reported Quantitation Limits

* All criteria were met for this parameter or did not require qualification.
NA – Not applicable.

Overall Evaluation of Data and Potential Usability Issues

The site sampling objectives are:

- Characterize in-situ soil for the presence of possible site-related contamination.
- Evaluate groundwater elevation.
- Evaluate presence/absence of groundwater contamination related to the site.

The data meet the project quality criteria and can be used without restriction except as summarized below. The attachments provide details and supporting documentation.

VOCs:
Results were qualified for MS/MSD exceedances.

PAHs:
Results were qualified for surrogate recovery exceedances, MS/MSD exceedances, and field duplicate imprecision.

Pesticides:
Results were qualified for surrogate recovery exceedances, field duplicate imprecision, and dual column imprecision.

PCBs:
Results were qualified for surrogate recovery exceedances.

Metals:
Results were qualified for MS/MSD exceedances, field duplicate imprecision, and serial dilution exceedances.

ETPH:
Results were qualified for surrogate recovery exceedances.

Please contact Linda Terzis at lterzis@nobis-group.com should you have any questions or comments regarding this information.

Sincerely,

NOBIS GROUP®

Linda Terzis
Data Validator

Kristin Rutherford
Data Validator

Tables: Data Summary Tables – Tier 1 Stage 2A (S2AVM) Validated Data
Data Qualification Actions Table

Attachments: Data Review Checklist
Support Documentation
COC

cc: Edward King (KGSNE)
Jeffrey Brunelle (Nobis Group)

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		JD29693-1	JD29693-10	JD29693-11	JD29693-12	JD29693-13
Field Sample ID		B-10-0002	MW-6-0002	MW-6-0305	MW-5-0002	MW-05-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/09/21	08/09/21	08/09/21	08/09/21
Antimony	mg/kg	2.4 UJ	2.1 UJ	12 UJ	2.1 UJ	2.4 UJ
Arsenic	mg/kg	16.7	51.9	49.1	2.4	2.4 U
Barium	mg/kg	107	115	34.3	21 U	60.3
Beryllium	mg/kg	0.62	0.68	1.2 U	0.5	0.57
Cadmium	mg/kg	1.2	0.53 U	3 U	0.53 U	0.6 U
Chromium	mg/kg	17.3	9.8	11.6	9.4	14.5
Copper	mg/kg	35.7 J+	22.9 J+	20.3 J+	6.1 J+	4.8 J+
Lead	mg/kg	143	95.2	55.3	5.8	4.1
Mercury	mg/kg	0.16	0.16	0.091	0.03 U	0.032 U
Nickel	mg/kg	29.5	9.5	7.7	5.9	8
Selenium	mg/kg	2.4 U	3.3	12 U	2.1 U	2.4 U
Silver	mg/kg	0.72	0.58	3 U	0.6	1.1
Thallium	mg/kg	1.2 U	1.1 U	1.2 U	1.1 U	1.2 U
Vanadium	mg/kg	180	49.3	30 U	16.4	22.2
Zinc	mg/kg	107 J	22.4 J	20 J	15.9 J	33.9 J

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		JD29693-15	JD29693-16	JD29693-17	JD29693-18	JD29693-19
Field Sample ID		MW-4-0002	MW-4-0204	MW-1R-0002	MW-1R-0406	B-2-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/10/21	08/10/21	08/10/21	08/10/21	08/10/21
Antimony	mg/kg	68.2 J	2.7 J	2.2 UJ	2.2 UJ	19.7 J
Arsenic	mg/kg	12.5	5.8	6.2	5.7	15.4
Barium	mg/kg	92.8	90.7	72.9	147	129
Beryllium	mg/kg	1.1 U	0.46	0.47	0.48	0.61
Cadmium	mg/kg	2.9 U	2.5	0.58	0.56 U	1.2
Chromium	mg/kg	7.1	15	12.5	17.8	9.8
Copper	mg/kg	356 J+	308 J+	42.7 J+	34.1 J+	357 J+
Lead	mg/kg	7450	745	217	347	1140
Mercury	mg/kg	0.38	11	0.27	0.54	0.84
Nickel	mg/kg	9.8	12.8	9.5	12.9	12.6
Selenium	mg/kg	11 U	2.7 U	2.2 U	2.2 U	2.3 U
Silver	mg/kg	2.9 U	0.84	0.54 U	0.58	0.98
Thallium	mg/kg	5.7 U	1.4 U	1.1 U	1.1 U	1.1 U
Vanadium	mg/kg	14.2	17.2	23.5	18.1	20.3
Zinc	mg/kg	727 J	1110 J	165 J	202 J	552 J

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		JD29693-2	JD29693-20	JD29693-21	JD29693-22	JD29693-3
Field Sample ID		B-10-0204	B-2-0507	B-3-0002	B-3-0305	B-7-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/10/21	08/10/21	08/10/21	08/09/21
Antimony	mg/kg	2.2 UJ	2.5 UJ	2.1 UJ	2.3 UJ	2.3 UJ
Arsenic	mg/kg	41.7	2.5	4.5	3.9	9.8
Barium	mg/kg	49.6	75.7	57.2	69.5	149
Beryllium	mg/kg	0.59	0.67	0.34	0.39	0.62
Cadmium	mg/kg	0.55 U	0.62 U	0.53 U	0.58 U	0.74
Chromium	mg/kg	10.4	11.8	11.5	8.5	13.2
Copper	mg/kg	20.9 J+	4.4 J+	32.7 J+	30.4 J+	67.3 J+
Lead	mg/kg	26.4	15.8	168	115	449
Mercury	mg/kg	0.056	0.035 U	0.34	0.38	0.65
Nickel	mg/kg	21.1	7.5	11.4	8.1	11.7
Selenium	mg/kg	2.4	2.5 U	2.1 U	2.3 U	2.3 U
Silver	mg/kg	0.76	0.69	0.53 U	0.58 U	0.78
Thallium	mg/kg	2	1.2 U	1.1 U	1.2 U	1.1 U
Vanadium	mg/kg	407	28.5	20.1	16.9	35.2
Zinc	mg/kg	29.8 J	36.3 J	105 J	81.4 J	217 J

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Metals in Soil				
Lab Sample ID		JD29693-4	JD29693-5	JD29693-6	JD29693-7	JD29693-8
Field Sample ID		B-7-0507	B-9-0002	B-9-0305	B-8-0002	FD-01-20210809
Sample Type		N	N	N	N	FD
Parent Sample ID						B-8-0002
Sample Date	**Units**	08/09/21	08/09/21	08/09/21	08/09/21	08/09/21
Antimony	mg/kg	2.5 UJ	2.3 UJ	2.2 UJ	2.5 UJ	2.4 UJ
Arsenic	mg/kg	3.1	8.2	4.1	6.3	6.7
Barium	mg/kg	38.8	43.1	23.3	98.2	164
Beryllium	mg/kg	0.54	0.57	0.71	0.62	0.6
Cadmium	mg/kg	0.62 U	0.59 U	0.54 U	0.95	1.7
Chromium	mg/kg	15.1	13.1	13.8	14.7	19.8
Copper	mg/kg	5.7 J+	16.7 J+	9.5 J+	30.3 J+	42.8 J+
Lead	mg/kg	7.3	46.1	5.7	210	311
Mercury	mg/kg	0.039 U	0.088	0.029 U	0.24	0.14
Nickel	mg/kg	7.3	15.7	18	9.4	11.7
Selenium	mg/kg	2.5 U	2.3 U	2.2 U	2.5 U	2.4 U
Silver	mg/kg	0.69	0.67	0.77	0.71	0.89
Thallium	mg/kg	1.2 U	1.2 U	1.1 U	1.3 U	1.2 U
Vanadium	mg/kg	24.9	88.7	170	21.8	27.7
Zinc	mg/kg	20.6 J	57.3 J	51.1 J	154 J	263 J

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Metals in Soil
Lab Sample ID		JD29693-9
Field Sample ID		B-8-0507
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	08/09/21
Antimony	mg/kg	2.4 UJ
Arsenic	mg/kg	2.4 U
Barium	mg/kg	25.4
Beryllium	mg/kg	0.43
Cadmium	mg/kg	0.61 U
Chromium	mg/kg	10.4
Copper	mg/kg	9.8 J+
Lead	mg/kg	2.9
Mercury	mg/kg	0.02 U
Nickel	mg/kg	6.2
Selenium	mg/kg	2.4 U
Silver	mg/kg	0.61 U
Thallium	mg/kg	1.2 U
Vanadium	mg/kg	16.2
Zinc	mg/kg	16.6 J

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		JD29693-1	JD29693-10	JD29693-11	JD29693-12	JD29693-13
Field Sample ID		B-10-0002	MW-6-0002	MW-6-0305	MW-5-0002	MW-05-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/09/21	08/09/21	08/09/21	08/09/21
4,4'-DDD	mg/kg	0.00074 UJ	0.00068 UJ	0.0751 J	0.00067 UJ	0.00074 UJ
4,4'-DDE	mg/kg	0.00074 UJ	0.0082 J	0.00077 UJ	0.00067 UJ	0.00074 UJ
4,4'-DDT	mg/kg	0.00074 UJ	0.0207 J	0.00077 UJ	0.00067 UJ	0.00074 UJ
Alachlor	mg/kg	0.0074 U	0.0068 U	0.0077 U	0.0067 U	0.0074 U
Aldrin	mg/kg	0.00074 U	0.00068 U	0.00077 U	0.00067 U	0.00074 U
alpha-BHC	mg/kg	0.00074 U	0.00068 U	0.00077 U	0.00067 U	0.00074 U
Aroclor 1016	mg/kg	0.056 U	0.054 U	0.055 U	0.048 U	0.049 U
Aroclor 1221	mg/kg	0.056 U	0.054 U	0.055 U	0.048 U	0.049 U
Aroclor 1232	mg/kg	0.056 U	0.054 U	0.055 U	0.048 U	0.049 U
Aroclor 1242	mg/kg	0.056 U	0.054 U	0.055 U	0.048 U	0.049 U
Aroclor 1248	mg/kg	0.056 U	0.054 U	0.055 U	0.048 U	0.049 U
Aroclor 1254	mg/kg	3.84 J+	0.054 U	0.055 U	0.048 U	0.049 U
Aroclor 1260	mg/kg	0.056 U	0.054 U	0.055 U	0.048 U	0.049 U
Aroclor 1262	mg/kg	0.056 U	0.054 U	0.055 U	0.048 U	0.049 U
Aroclor 1268	mg/kg	0.056 U	0.054 U	0.055 U	0.048 U	0.049 U
Aroclor, Total	mg/kg	3.84 J+	0.054 U	0.055 U	0.048 U	0.049 U
beta-BHC	mg/kg	0.00074 U	0.00068 U	0.00077 U	0.00067 U	0.00074 U
Chlordane	mg/kg	0.037 U	0.034 U	0.039 U	0.033 U	0.037 U
delta-BHC	mg/kg	0.00074 U	0.00068 U	0.00077 U	0.00067 U	0.00074 U
Dieldrin	mg/kg	0.00074 U	0.00068 U	0.00077 U	0.00067 U	0.00074 U
Endosulfan I	mg/kg	0.00074 U	0.00068 U	0.00077 U	0.00067 U	0.00074 U
Endosulfan II	mg/kg	0.00074 U	0.00068 U	0.00077 U	0.00067 U	0.00074 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		JD29693-15	JD29693-16	JD29693-17	JD29693-18	JD29693-19
Field Sample ID		MW-4-0002	MW-4-0204	MW-1R-0002	MW-1R-0406	B-2-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/10/21	08/10/21	08/10/21	08/10/21	08/10/21
4,4'-DDD	mg/kg	0.00072 UJ	0.0009 UJ	0.00066 UJ	0.0089 J	0.0039 J
4,4'-DDE	mg/kg	0.00072 UJ	0.0009 UJ	0.00066 UJ	0.0015 J	0.00074 UJ
4,4'-DDT	mg/kg	0.00072 UJ	0.0009 UJ	0.00066 UJ	0.0081 J	0.0052 J
Alachlor	mg/kg	0.0072 U	0.009 U	0.0066 U	0.0072 U	0.0074 U
Aldrin	mg/kg	0.00072 U	0.0009 U	0.00066 U	0.00072 U	0.00074 U
alpha-BHC	mg/kg	0.00072 U	0.0009 U	0.00066 U	0.00072 U	0.00074 U
Aroclor 1016	mg/kg	0.054 U	0.069 U	0.053 U	0.056 U	0.058 U
Aroclor 1221	mg/kg	0.054 U	0.069 U	0.053 U	0.056 U	0.058 U
Aroclor 1232	mg/kg	0.054 U	0.069 U	0.053 U	0.056 U	0.058 U
Aroclor 1242	mg/kg	0.054 U	0.069 U	0.053 U	0.056 U	0.058 U
Aroclor 1248	mg/kg	0.054 U	0.069 U	0.053 U	0.056 U	0.058 U
Aroclor 1254	mg/kg	0.054 U	0.069 U	0.053 U	0.056 U	0.058 U
Aroclor 1260	mg/kg	0.054 U	0.069 U	0.053 U	0.056 U	0.058 U
Aroclor 1262	mg/kg	0.054 U	0.069 U	0.053 U	0.056 U	0.058 U
Aroclor 1268	mg/kg	0.054 U	0.069 U	0.053 U	0.056 U	0.058 U
Aroclor, Total	mg/kg	0.054 U	0.069 U	0.053 U	0.056 U	0.058 U
beta-BHC	mg/kg	0.00072 U	0.0009 U	0.00066 U	0.00072 U	0.00074 U
Chlordane	mg/kg	0.036 U	0.045 U	0.033 U	0.036 U	0.037 U
delta-BHC	mg/kg	0.00072 U	0.0009 U	0.00066 U	0.00072 U	0.00074 U
Dieldrin	mg/kg	0.00072 U	0.0009 U	0.00066 U	0.00072 U	0.00074 U
Endosulfan I	mg/kg	0.00072 U	0.0009 U	0.00066 U	0.00072 U	0.00074 U
Endosulfan II	mg/kg	0.00072 U	0.0009 U	0.00066 U	0.00072 U	0.00074 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		JD29693-2	JD29693-20	JD29693-21	JD29693-22	JD29693-3
Field Sample ID		B-10-0204	B-2-0507	B-3-0002	B-3-0305	B-7-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/10/21	08/10/21	08/10/21	08/09/21
4,4'-DDD	mg/kg	0.0007 UJ	0.0008 UJ	0.00068 UJ	0.0071 J	0.00074 UJ
4,4'-DDE	mg/kg	0.0007 UJ	0.0008 UJ	0.00068 UJ	0.00073 UJ	0.00074 UJ
4,4'-DDT	mg/kg	0.0007 UJ	0.0008 UJ	0.00068 UJ	0.00073 UJ	0.00074 UJ
Alachlor	mg/kg	0.007 U	0.008 U	0.0068 U	0.0073 U	0.0074 U
Aldrin	mg/kg	0.0007 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U
alpha-BHC	mg/kg	0.0007 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U
Aroclor 1016	mg/kg	0.055 U	0.057 U	0.055 U	0.057 U	0.055 U
Aroclor 1221	mg/kg	0.055 U	0.057 U	0.055 U	0.057 U	0.055 U
Aroclor 1232	mg/kg	0.055 U	0.057 U	0.055 U	0.057 U	0.055 U
Aroclor 1242	mg/kg	0.055 U	0.057 U	0.055 U	0.057 U	0.055 U
Aroclor 1248	mg/kg	0.055 U	0.057 U	0.055 U	0.057 U	0.055 U
Aroclor 1254	mg/kg	0.055 U	0.057 U	0.055 U	0.057 U	0.335
Aroclor 1260	mg/kg	0.055 U	0.057 U	0.055 U	0.057 U	0.055 U
Aroclor 1262	mg/kg	0.055 U	0.057 U	0.055 U	0.057 U	0.055 U
Aroclor 1268	mg/kg	0.055 U	0.057 U	0.055 U	0.057 U	0.055 U
Aroclor, Total	mg/kg	0.055 U	0.057 U	0.055 U	0.057 U	0.335
beta-BHC	mg/kg	0.0007 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U
Chlordane	mg/kg	0.035 U	0.04 U	0.034 U	0.037 U	0.037 U
delta-BHC	mg/kg	0.0007 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U
Dieldrin	mg/kg	0.0007 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U
Endosulfan I	mg/kg	0.0007 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U
Endosulfan II	mg/kg	0.0007 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		JD29693-4	JD29693-5	JD29693-6	JD29693-7	JD29693-8
Field Sample ID		B-7-0507	B-9-0002	B-9-0305	B-8-0002	FD-01-20210809
Sample Type		N	N	N	N	FD
Parent Sample ID						B-8-0002
Sample Date	**Units**	08/09/21	08/09/21	08/09/21	08/09/21	08/09/21
4,4'-DDD	mg/kg	0.00082 UJ	0.00073 UJ	0.00067 UJ	0.0116 J	0.0047 J
4,4'-DDE	mg/kg	0.00082 UJ	0.00073 UJ	0.00067 UJ	0.0356 J	0.0134 J
4,4'-DDT	mg/kg	0.00082 UJ	0.0082 J	0.00067 UJ	0.208 J	0.0609 J
Alachlor	mg/kg	0.0082 U	0.0073 U	0.0067 U	0.008 U	0.0079 U
Aldrin	mg/kg	0.00082 U	0.00073 U	0.00067 U	0.0008 U	0.00079 U
alpha-BHC	mg/kg	0.00082 U	0.00073 U	0.00067 U	0.0008 U	0.00079 U
Aroclor 1016	mg/kg	0.054 U	0.057 U	0.049 U	0.06 U	0.06 U
Aroclor 1221	mg/kg	0.054 U	0.057 U	0.049 U	0.06 U	0.06 U
Aroclor 1232	mg/kg	0.054 U	0.057 U	0.049 U	0.06 U	0.06 U
Aroclor 1242	mg/kg	0.054 U	0.057 U	0.049 U	0.06 U	0.06 U
Aroclor 1248	mg/kg	0.054 U	0.057 U	0.049 U	0.06 U	0.06 U
Aroclor 1254	mg/kg	0.054 U	0.057 U	0.049 U	0.233	0.413
Aroclor 1260	mg/kg	0.054 U	0.057 U	0.049 U	0.06 U	0.06 U
Aroclor 1262	mg/kg	0.054 U	0.057 U	0.049 U	0.06 U	0.06 U
Aroclor 1268	mg/kg	0.054 U	0.057 U	0.049 U	0.06 U	0.06 U
Aroclor, Total	mg/kg	0.054 U	0.057 U	0.049 U	0.233	0.413
beta-BHC	mg/kg	0.00082 U	0.00073 U	0.00067 U	0.0008 U	0.00079 U
Chlordane	mg/kg	0.041 U	0.037 U	0.034 U	0.04 U	0.04 U
delta-BHC	mg/kg	0.00082 U	0.00073 U	0.00067 U	0.0008 U	0.00079 U
Dieldrin	mg/kg	0.00082 U	0.00073 U	0.00067 U	0.0008 U	0.00079 U
Endosulfan I	mg/kg	0.00082 U	0.00073 U	0.00067 U	0.0008 U	0.00079 U
Endosulfan II	mg/kg	0.00082 U	0.00073 U	0.00067 U	0.0008 U	0.00079 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil
Lab Sample ID		JD29693-9
Field Sample ID		B-8-0507
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	08/09/21
4,4'-DDD	mg/kg	0.00082 UJ
4,4'-DDE	mg/kg	0.00082 UJ
4,4'-DDT	mg/kg	0.00082 UJ
Alachlor	mg/kg	0.0082 U
Aldrin	mg/kg	0.00082 U
alpha-BHC	mg/kg	0.00082 U
Aroclor 1016	mg/kg	0.057 U
Aroclor 1221	mg/kg	0.057 U
Aroclor 1232	mg/kg	0.057 U
Aroclor 1242	mg/kg	0.057 U
Aroclor 1248	mg/kg	0.057 U
Aroclor 1254	mg/kg	0.057 U
Aroclor 1260	mg/kg	0.057 U
Aroclor 1262	mg/kg	0.057 U
Aroclor 1268	mg/kg	0.057 U
Aroclor, Total	mg/kg	0.057 U
beta-BHC	mg/kg	0.00082 U
Chlordane	mg/kg	0.041 U
delta-BHC	mg/kg	0.00082 U
Dieldrin	mg/kg	0.00082 U
Endosulfan I	mg/kg	0.00082 U
Endosulfan II	mg/kg	0.00082 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		JD29693-1	JD29693-10	JD29693-11	JD29693-12	JD29693-13
Field Sample ID		B-10-0002	MW-6-0002	MW-6-0305	MW-5-0002	MW-05-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/09/21	08/09/21	08/09/21	08/09/21
Endosulfan Sulfate	mg/kg	0.00074 U	0.00068 U	0.00077 U	0.00067 U	0.00074 U
Endrin	mg/kg	0.00074 U	0.00068 U	0.00077 U	0.00067 U	0.00074 U
Endrin Aldehyde	mg/kg	0.00074 U	0.00068 U	0.00077 U	0.00067 U	0.00074 U
Endrin Ketone	mg/kg	0.00074 U	0.00068 U	0.00077 U	0.00067 U	0.00074 U
gamma-BHC (Lindane)	mg/kg	0.00074 U	0.00068 U	0.00077 U	0.00067 U	0.00074 U
Heptachlor	mg/kg	0.00074 U	0.00068 U	0.00077 U	0.00067 U	0.00074 U
Heptachlor Epoxide	mg/kg	0.00074 U	0.00068 U	0.00077 U	0.00067 U	0.00074 U
Hexachlorobenzene	mg/kg	0.0028 J	0.0044 J+	0.00077 U	0.00067 U	0.00074 U
Methoxychlor	mg/kg	0.0015 U	0.0014 U	0.0015 U	0.0013 U	0.0015 U
Toxaphene	mg/kg	0.019 U	0.017 U	0.019 U	0.017 U	0.018 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		JD29693-15	JD29693-16	JD29693-17	JD29693-18	JD29693-19
Field Sample ID		MW-4-0002	MW-4-0204	MW-1R-0002	MW-1R-0406	B-2-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/10/21	08/10/21	08/10/21	08/10/21	08/10/21
Endosulfan Sulfate	mg/kg	0.00072 U	0.0009 U	0.00066 U	0.00072 U	0.00074 U
Endrin	mg/kg	0.00072 U	0.0009 U	0.00066 U	0.00072 U	0.00074 U
Endrin Aldehyde	mg/kg	0.00072 U	0.0009 U	0.00066 U	0.00072 U	0.00074 U
Endrin Ketone	mg/kg	0.00072 U	0.0009 U	0.00066 U	0.00072 U	0.00074 U
gamma-BHC (Lindane)	mg/kg	0.00072 U	0.0009 U	0.00066 U	0.00072 U	0.00074 U
Heptachlor	mg/kg	0.00072 U	0.0009 U	0.00066 U	0.00072 U	0.00074 U
Heptachlor Epoxide	mg/kg	0.00072 U	0.0009 U	0.00066 U	0.00072 U	0.00074 U
Hexachlorobenzene	mg/kg	0.0031 J	0.0009 U	0.00066 U	0.00072 U	0.00074 U
Methoxychlor	mg/kg	0.0014 U	0.0018 U	0.0013 U	0.0014 U	0.0015 U
Toxaphene	mg/kg	0.018 U	0.023 U	0.017 U	0.018 U	0.018 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		JD29693-2	JD29693-20	JD29693-21	JD29693-22	JD29693-3
Field Sample ID		B-10-0204	B-2-0507	B-3-0002	B-3-0305	B-7-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/10/21	08/10/21	08/10/21	08/09/21
Endosulfan Sulfate	mg/kg	0.0007 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U
Endrin	mg/kg	0.0007 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U
Endrin Aldehyde	mg/kg	0.0007 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U
Endrin Ketone	mg/kg	0.0007 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U
gamma-BHC (Lindane)	mg/kg	0.0007 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U
Heptachlor	mg/kg	0.0007 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U
Heptachlor Epoxide	mg/kg	0.0007 U	0.0008 U	0.00068 U	0.00073 U	0.00074 U
Hexachlorobenzene	mg/kg	0.0007 U	0.0008 U	0.00072 J	0.00073 U	0.0018 J
Methoxychlor	mg/kg	0.0014 U	0.0016 U	0.0014 U	0.0015 U	0.0015 U
Toxaphene	mg/kg	0.018 U	0.02 U	0.017 U	0.018 U	0.018 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil				
Lab Sample ID		JD29693-4	JD29693-5	JD29693-6	JD29693-7	JD29693-8
Field Sample ID		B-7-0507	B-9-0002	B-9-0305	B-8-0002	FD-01-20210809
Sample Type		N	N	N	N	FD
Parent Sample ID						B-8-0002
Sample Date	**Units**	08/09/21	08/09/21	08/09/21	08/09/21	08/09/21
Endosulfan Sulfate	mg/kg	0.00082 U	0.00073 U	0.00067 U	0.0008 U	0.00079 U
Endrin	mg/kg	0.00082 U	0.00073 U	0.00067 U	0.0008 U	0.00079 U
Endrin Aldehyde	mg/kg	0.00082 U	0.00073 U	0.00067 U	0.0008 U	0.00079 U
Endrin Ketone	mg/kg	0.00082 U	0.00073 U	0.00067 U	0.0008 U	0.00079 U
gamma-BHC (Lindane)	mg/kg	0.00082 U	0.00073 U	0.00067 U	0.0008 U	0.00079 U
Heptachlor	mg/kg	0.00082 U	0.00073 U	0.00067 U	0.0008 U	0.00079 U
Heptachlor Epoxide	mg/kg	0.00082 U	0.00073 U	0.00067 U	0.0008 U	0.00079 U
Hexachlorobenzene	mg/kg	0.00082 U	0.0017	0.00067 U	0.0008 U	0.00079 U
Methoxychlor	mg/kg	0.0016 U	0.0015 U	0.0013 U	0.0016 U	0.0016 U
Toxaphene	mg/kg	0.021 U	0.018 U	0.017 U	0.02 U	0.02 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Soil
Lab Sample ID		JD29693-9
Field Sample ID		B-8-0507
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	08/09/21
Endosulfan Sulfate	mg/kg	0.00082 U
Endrin	mg/kg	0.00082 U
Endrin Aldehyde	mg/kg	0.00082 U
Endrin Ketone	mg/kg	0.00082 U
gamma-BHC (Lindane)	mg/kg	0.00082 U
Heptachlor	mg/kg	0.00082 U
Heptachlor Epoxide	mg/kg	0.00082 U
Hexachlorobenzene	mg/kg	0.00083 J
Methoxychlor	mg/kg	0.0016 U
Toxaphene	mg/kg	0.021 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Petroleum Hydrocarbons in Soil				
Lab Sample ID		JD29693-1	JD29693-10	JD29693-11	JD29693-12	JD29693-13
Field Sample ID		B-10-0002	MW-6-0002	MW-6-0305	MW-5-0002	MW-05-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/09/21	08/09/21	08/09/21	08/09/21
Diesel Range Organics (C9-C36)	mg/kg	197	214 J-	2020	16.7	15.5

DATA SUMMARY TABLE

Analysis		Petroleum Hydrocarbons in Soil				
Lab Sample ID		JD29693-15	JD29693-16	JD29693-17	JD29693-18	JD29693-19
Field Sample ID		MW-4-0002	MW-4-0204	MW-1R-0002	MW-1R-0406	B-2-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/10/21	08/10/21	08/10/21	08/10/21	08/10/21
Diesel Range Organics (C9-C36)	mg/kg	111	21.4	158	64.6	204

DATA SUMMARY TABLE

Analysis		Petroleum Hydrocarbons in Soil				
Lab Sample ID		JD29693-2	JD29693-20	JD29693-21	JD29693-22	JD29693-3
Field Sample ID		B-10-0204	B-2-0507	B-3-0002	B-3-0305	B-7-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/10/21	08/10/21	08/10/21	08/09/21
Diesel Range Organics (C9-C36)	mg/kg	12.4	18.1	640	430	91.2 J-

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Petroleum Hydrocarbons in Soil				
Lab Sample ID		JD29693-4	JD29693-5	JD29693-6	JD29693-7	JD29693-8
Field Sample ID		B-7-0507	B-9-0002	B-9-0305	B-8-0002	FD-01-20210809
Sample Type		N	N	N	N	FD
Parent Sample ID						B-8-0002
Sample Date	**Units**	08/09/21	08/09/21	08/09/21	08/09/21	08/09/21
Diesel Range Organics (C9-C36)	mg/kg	8.2 U	38.1	59	177	178

DATA SUMMARY TABLE

Analysis		Petroleum Hydrocarbons in Soil
Lab Sample ID		JD29693-9
Field Sample ID		B-8-0507
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	08/09/21
Diesel Range Organics (C9-C36)	mg/kg	29.2 J-

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		JD29693-1	JD29693-10	JD29693-11	JD29693-12	JD29693-13
Field Sample ID		B-10-0002	MW-6-0002	MW-6-0305	MW-5-0002	MW-05-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/09/21	08/09/21	08/09/21	08/09/21
2-Methylnaphthalene	mg/kg	0.0733	0.585	0.51	0.0035 U	0.0038 U
Acenaphthene	mg/kg	0.02 UJ	0.0073 UJ	0.247 J	0.0035 UJ	0.0038 UJ
Acenaphthylene	mg/kg	0.192 J	0.0541 J	0.394 J	0.0035 UJ	0.0038 UJ
Anthracene	mg/kg	0.101 J	0.0448 J	1.04 J	0.0035 UJ	0.0038 UJ
Benzo(a)anthracene	mg/kg	0.436 J	0.0895 J	1.45 J	0.0035 UJ	0.0038 UJ
Benzo(a)pyrene	mg/kg	0.608 J	0.0732 J	0.984 J	0.00352 J	0.0038 UJ
Benzo(b)fluoranthene	mg/kg	0.932 J	0.172 J	1.37 J	0.00642 J	0.0038 UJ
Benzo(g,h,i)perylene	mg/kg	0.786 J	0.146 J	0.539 J	0.0035 UJ	0.0038 UJ
Benzo(k)fluoranthene	mg/kg	0.326 J	0.0445 J	0.448 J	0.0035 UJ	0.0038 UJ
Chrysene	mg/kg	0.563 J	0.206 J	1.24 J	0.00457 J	0.0038 UJ
Dibenz(a,h)anthracene	mg/kg	0.179 J	0.0233 J	0.151 J	0.0035 UJ	0.0038 UJ
Fluoranthene	mg/kg	0.707 J	0.175 J	3.28 J	0.00764 J	0.0038 UJ
Fluorene	mg/kg	0.0303	0.0338	0.609	0.0035 U	0.0038 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.686 J	0.0842 J	0.581 J	0.0035 UJ	0.0038 UJ
Naphthalene	mg/kg	0.0481 J	0.328 J	1.49 J	0.0035 UJ	0.0038 UJ
Phenanthrene	mg/kg	0.474	0.286	4.46 J+	0.0055	0.0038 U
Pyrene	mg/kg	0.713 J	0.182 J	2.95 J	0.007 J	0.0038 UJ

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		JD29693-15	JD29693-16	JD29693-17	JD29693-18	JD29693-19
Field Sample ID		MW-4-0002	MW-4-0204	MW-1R-0002	MW-1R-0406	B-2-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/10/21	08/10/21	08/10/21	08/10/21	08/10/21
2-Methylnaphthalene	mg/kg	0.0989	0.00562	0.115	0.047	0.0354
Acenaphthene	mg/kg	0.161 J	0.0045 UJ	0.252 J	0.0179 J	0.00881 J
Acenaphthylene	mg/kg	0.556 J	0.00687 J	0.629 J	0.066 J	0.0533 J
Anthracene	mg/kg	1.12 J	0.0126 J	1.35 J	0.0904 J	0.0703 J
Benzo(a)anthracene	mg/kg	2.72 J	0.0362 J	3.15 J	0.338 J	0.153 J
Benzo(a)pyrene	mg/kg	2.13 J	0.0311 J	2.42 J	0.249 J	0.1 J
Benzo(b)fluoranthene	mg/kg	3 J	0.0625 J	2.98 J	0.472 J	0.194 J
Benzo(g,h,i)perylene	mg/kg	1.19 J	0.0287 J	1.58 J	0.18 J	0.0677 J
Benzo(k)fluoranthene	mg/kg	1 J	0.0195 J	1.46 J	0.135 J	0.0636 J
Chrysene	mg/kg	2.41 J	0.0379 J	2.92 J	0.359 J	0.162 J
Dibenz(a,h)anthracene	mg/kg	0.349 J	0.00889 J	0.441 J	0.057 J	0.0242 J
Fluoranthene	mg/kg	4.98 J	0.0551 J	5.57 J	0.662 J	0.322 J
Fluorene	mg/kg	0.447 J+	0.0045 U	0.347	0.0322	0.0186
Indeno(1,2,3-cd)pyrene	mg/kg	1.28 J	0.0264 J	1.56 J	0.165 J	0.0744 J
Naphthalene	mg/kg	0.172 J	0.0129 J	0.164 J	0.0811 J	0.0989 J
Phenanthrene	mg/kg	4.41 J+	0.045	6.3	0.532	0.32
Pyrene	mg/kg	4.76 J	0.0447 J	5.21 J	0.671 J	0.275 J

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		JD29693-2	JD29693-20	JD29693-21	JD29693-22	JD29693-3
Field Sample ID		B-10-0204	B-2-0507	B-3-0002	B-3-0305	B-7-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/10/21	08/10/21	08/10/21	08/09/21
2-Methylnaphthalene	mg/kg	0.009	0.0039 U	0.0571	0.0262	0.0136
Acenaphthene	mg/kg	0.0036 UJ	0.0039 UJ	0.13 J	0.0402 J	0.00497 J
Acenaphthylene	mg/kg	0.00868 J	0.0039 UJ	0.568 J	0.223 J	0.0354 J
Anthracene	mg/kg	0.00539 J	0.0039 UJ	0.956 J	0.535 J	0.0338 J
Benzo(a)anthracene	mg/kg	0.0365 J	0.0039 UJ	4.04 J	2.04 J	0.149 J
Benzo(a)pyrene	mg/kg	0.069 J	0.0039 UJ	3.38 J	1.78 J	0.154 J
Benzo(b)fluoranthene	mg/kg	0.109 J	0.0039 UJ	5.11 J	2.89 J	0.265 J
Benzo(g,h,i)perylene	mg/kg	0.124 J	0.0039 UJ	2.09 J	1.37 J	0.122 J
Benzo(k)fluoranthene	mg/kg	0.0392 J	0.0039 UJ	1.64 J	0.982 J	0.0767 J
Chrysene	mg/kg	0.0561 J	0.0039 UJ	4.21 J	2.14 J	0.173 J
Dibenz(a,h)anthracene	mg/kg	0.0231 J	0.0039 UJ	0.663 J	0.324 J	0.0351 J
Fluoranthene	mg/kg	0.0458 J	0.0039 UJ	8.67 J	3.85 J	0.262 J
Fluorene	mg/kg	0.0036 U	0.0039 U	0.279	0.125	0.00831
Indeno(1,2,3-cd)pyrene	mg/kg	0.103 J	0.0039 UJ	2.37 J	1.37 J	0.123 J
Naphthalene	mg/kg	0.00633 J	0.00681 J	0.191 J	0.0964 J	0.018 J
Phenanthrene	mg/kg	0.0394	0.0039 U	5.05	2.38	0.142
Pyrene	mg/kg	0.0483 J	0.0039 UJ	7.78 J	4.06 J	0.258 J

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil				
Lab Sample ID		JD29693-4	JD29693-5	JD29693-6	JD29693-7	JD29693-8
Field Sample ID		B-7-0507	B-9-0002	B-9-0305	B-8-0002	FD-01-20210809
Sample Type		N	N	N	N	FD
Parent Sample ID						B-8-0002
Sample Date	**Units**	08/09/21	08/09/21	08/09/21	08/09/21	08/09/21
2-Methylnaphthalene	mg/kg	0.0042 U	0.0038 U	0.0035 U	0.0141	0.0295
Acenaphthene	mg/kg	0.0042 UJ	0.0038 UJ	0.0035 UJ	0.0259 J	0.0459 J
Acenaphthylene	mg/kg	0.0042 UJ	0.00537 J	0.0035 UJ	0.0597 J	0.0953 J
Anthracene	mg/kg	0.0042 UJ	0.00619 J	0.0035 UJ	0.106 J	0.184 J
Benzo(a)anthracene	mg/kg	0.0042 UJ	0.0334 J	0.0035 UJ	0.444 J	1.05 J
Benzo(a)pyrene	mg/kg	0.0042 UJ	0.039 J	0.127 J	0.428 J	0.969 J
Benzo(b)fluoranthene	mg/kg	0.0042 UJ	0.0594 J	0.0272 J	0.593 J	1.33 J
Benzo(g,h,i)perylene	mg/kg	0.0042 UJ	0.0353 J	0.0785 J	0.314 J	0.661 J
Benzo(k)fluoranthene	mg/kg	0.0042 UJ	0.0219 J	0.0035 UJ	0.152 J	0.509 J
Chrysene	mg/kg	0.0042 UJ	0.0378 J	0.0554 J	0.418 J	0.957 J
Dibenz(a,h)anthracene	mg/kg	0.0042 UJ	0.00849 J	0.0103 J	0.0725 J	0.147 J
Fluoranthene	mg/kg	0.0042 UJ	0.0499 J	0.00419 J	0.788 J	1.72 J
Fluorene	mg/kg	0.0042 U	0.0038 U	0.0035 U	0.0272	0.0436
Indeno(1,2,3-cd)pyrene	mg/kg	0.0042 UJ	0.0334 J	0.015 J	0.298 J	0.656 J
Naphthalene	mg/kg	0.0042 UJ	0.0038 UJ	0.00632 J	0.0422 J	0.139 J
Phenanthrene	mg/kg	0.0042 U	0.027	0.0234	0.475	0.765 J+
Pyrene	mg/kg	0.0042 UJ	0.0517 J	0.0231 J	0.799 J	1.72 J

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Semivolatiles in Soil
Lab Sample ID		JD29693-9
Field Sample ID		B-8-0507
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	08/09/21
2-Methylnaphthalene	mg/kg	0.004 U
Acenaphthene	mg/kg	0.004 UJ
Acenaphthylene	mg/kg	0.004 UJ
Anthracene	mg/kg	0.004 UJ
Benzo(a)anthracene	mg/kg	0.004 UJ
Benzo(a)pyrene	mg/kg	0.004 UJ
Benzo(b)fluoranthene	mg/kg	0.004 UJ
Benzo(g,h,i)perylene	mg/kg	0.004 UJ
Benzo(k)fluoranthene	mg/kg	0.004 UJ
Chrysene	mg/kg	0.004 UJ
Dibenz(a,h)anthracene	mg/kg	0.004 UJ
Fluoranthene	mg/kg	0.004 UJ
Fluorene	mg/kg	0.004 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.004 UJ
Naphthalene	mg/kg	0.004 UJ
Phenanthrene	mg/kg	0.004 U
Pyrene	mg/kg	0.004 UJ

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		JD29693-1	JD29693-10	JD29693-11	JD29693-12	JD29693-13
Field Sample ID		B-10-0002	MW-6-0002	MW-6-0305	MW-5-0002	MW-05-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/09/21	08/09/21	08/09/21	08/09/21
1,1,1,2-Tetrachloroethane	mg/kg	0.0017 U	0.0016 U	0.0023 U	0.0011 U	0.001 U
1,1,1-Trichloroethane	mg/kg	0.0017 U	0.0016 U	0.0023 U	0.0011 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0017 U	0.0016 U	0.0023 U	0.0011 U	0.001 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0041 U	0.004 U	0.0058 U	0.0028 U	0.0025 U
1,1,2-Trichloroethane	mg/kg	0.0017 U	0.0016 U	0.0023 U	0.0011 U	0.001 U
1,1-Dichloroethane	mg/kg	0.00083 U	0.0008 U	0.0012 U	0.00055 U	0.0005 U
1,1-Dichloroethene	mg/kg	0.00083 U	0.0008 U	0.0012 U	0.00055 U	0.0005 U
1,1-Dichloropropene	mg/kg	0.0017 U	0.0016 U	0.0023 U	0.0011 U	0.001 U
1,2,3-Trichlorobenzene	mg/kg	0.0041 UJ	0.004 UJ	0.0058 UJ	0.0028 UJ	0.0025 UJ
1,2,3-Trichloropropane	mg/kg	0.0041 U	0.004 U	0.0058 U	0.0028 U	0.0025 U
1,2,4-Trichlorobenzene	mg/kg	0.0041 UJ	0.004 UJ	0.0058 UJ	0.0028 UJ	0.0025 UJ
1,2,4-Trimethylbenzene	mg/kg	0.0017 U	0.0016 U	0.0023 U	0.0011 U	0.001 U
1,2-Dibromo-3-chloropropane	mg/kg	0.0017 U	0.0016 U	0.0023 U	0.0011 U	0.001 U
1,2-Dibromoethane	mg/kg	0.00083 U	0.0008 U	0.0012 U	0.00055 U	0.0005 U
1,2-Dichlorobenzene	mg/kg	0.00083 UJ	0.0008 UJ	0.0012 UJ	0.00055 UJ	0.0005 UJ
1,2-Dichloroethane	mg/kg	0.00083 U	0.0008 U	0.0012 U	0.00055 U	0.0005 U
1,2-Dichloropropane	mg/kg	0.0017 U	0.0016 U	0.0023 U	0.0011 U	0.001 U
1,3,5-Trimethylbenzene	mg/kg	0.0017 U	0.0016 U	0.0023 U	0.0011 U	0.001 U
1,3-Dichlorobenzene	mg/kg	0.00083 UJ	0.0008 UJ	0.0012 UJ	0.00055 UJ	0.0005 UJ
1,3-Dichloropropane	mg/kg	0.0017 U	0.0016 U	0.0023 U	0.0011 U	0.001 U
1,4-Dichlorobenzene	mg/kg	0.00083 UJ	0.0008 UJ	0.0012 UJ	0.00055 UJ	0.0005 UJ
2,2-Dichloropropane	mg/kg	0.0017 U	0.0016 U	0.0023 U	0.0011 U	0.001 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		JD29693-15	JD29693-16	JD29693-17	JD29693-18	JD29693-19
Field Sample ID		MW-4-0002	MW-4-0204	MW-1R-0002	MW-1R-0406	B-2-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/10/21	08/10/21	08/10/21	08/10/21	08/10/21
1,1,1,2-Tetrachloroethane	mg/kg	0.0015 U	0.0017 U	0.0012 U	0.0018 U	0.0014 U
1,1,1-Trichloroethane	mg/kg	0.0015 U	0.0017 U	0.0012 U	0.0018 U	0.0014 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0015 U	0.0017 U	0.0012 U	0.0018 U	0.0014 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0037 U	0.0042 U	0.0031 U	0.0046 U	0.0036 U
1,1,2-Trichloroethane	mg/kg	0.0015 U	0.0017 U	0.0012 U	0.0018 U	0.0014 U
1,1-Dichloroethane	mg/kg	0.00073 U	0.00084 U	0.00061 U	0.00092 U	0.00071 U
1,1-Dichloroethene	mg/kg	0.00073 U	0.00084 U	0.00061 U	0.00092 U	0.00071 U
1,1-Dichloropropene	mg/kg	0.0015 U	0.0017 U	0.0012 U	0.0018 U	0.0014 U
1,2,3-Trichlorobenzene	mg/kg	0.0037 UJ	0.0042 UJ	0.0031 UJ	0.0046 UJ	0.0036 UJ
1,2,3-Trichloropropane	mg/kg	0.0037 U	0.0042 U	0.0031 U	0.0046 U	0.0036 U
1,2,4-Trichlorobenzene	mg/kg	0.0037 UJ	0.0042 UJ	0.0031 UJ	0.0046 UJ	0.0036 UJ
1,2,4-Trimethylbenzene	mg/kg	0.0015 U	0.0017 U	0.0012 U	0.0018 U	0.0014 U
1,2-Dibromo-3-chloropropane	mg/kg	0.0015 U	0.0017 U	0.0012 U	0.0018 U	0.0014 U
1,2-Dibromoethane	mg/kg	0.00073 U	0.00084 U	0.00061 U	0.00092 U	0.00071 U
1,2-Dichlorobenzene	mg/kg	0.00073 UJ	0.00084 UJ	0.00061 UJ	0.00092 UJ	0.00071 UJ
1,2-Dichloroethane	mg/kg	0.00073 U	0.00084 U	0.00061 U	0.00092 U	0.00071 U
1,2-Dichloropropane	mg/kg	0.0015 U	0.0017 U	0.0012 U	0.0018 U	0.0014 U
1,3,5-Trimethylbenzene	mg/kg	0.0015 U	0.0017 U	0.0012 U	0.0018 U	0.0014 U
1,3-Dichlorobenzene	mg/kg	0.00073 UJ	0.00084 UJ	0.00061 UJ	0.00092 UJ	0.00071 UJ
1,3-Dichloropropane	mg/kg	0.0015 U	0.0017 U	0.0012 U	0.0018 U	0.0014 U
1,4-Dichlorobenzene	mg/kg	0.00073 UJ	0.00084 UJ	0.00061 UJ	0.00092 UJ	0.00071 UJ
2,2-Dichloropropane	mg/kg	0.0015 U	0.0017 U	0.0012 U	0.0018 U	0.0014 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		JD29693-2	JD29693-20	JD29693-21	JD29693-22	JD29693-3
Field Sample ID		B-10-0204	B-2-0507	B-3-0002	B-3-0305	B-7-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/10/21	08/10/21	08/10/21	08/09/21
1,1,1,2-Tetrachloroethane	mg/kg	0.0052 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U
1,1,1-Trichloroethane	mg/kg	0.0052 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0052 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.013 U	0.0031 U	0.003 U	0.0027 U	0.003 U
1,1,2-Trichloroethane	mg/kg	0.0052 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U
1,1-Dichloroethane	mg/kg	0.0026 U	0.00062 U	0.00061 U	0.00054 U	0.00061 U
1,1-Dichloroethene	mg/kg	0.0026 U	0.00062 U	0.00061 U	0.00054 U	0.00061 U
1,1-Dichloropropene	mg/kg	0.0052 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U
1,2,3-Trichlorobenzene	mg/kg	0.013 UJ	0.0031 UJ	0.003 UJ	0.0027 UJ	0.003 UJ
1,2,3-Trichloropropane	mg/kg	0.013 U	0.0031 U	0.003 U	0.0027 U	0.003 U
1,2,4-Trichlorobenzene	mg/kg	0.013 UJ	0.0031 UJ	0.003 UJ	0.0027 UJ	0.003 UJ
1,2,4-Trimethylbenzene	mg/kg	0.0052 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U
1,2-Dibromo-3-chloropropane	mg/kg	0.0052 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U
1,2-Dibromoethane	mg/kg	0.0026 U	0.00062 U	0.00061 U	0.00054 U	0.00061 U
1,2-Dichlorobenzene	mg/kg	0.0026 UJ	0.00062 UJ	0.00061 UJ	0.00054 UJ	0.00061 UJ
1,2-Dichloroethane	mg/kg	0.0026 U	0.00062 U	0.00061 U	0.00054 U	0.00061 U
1,2-Dichloropropane	mg/kg	0.0052 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U
1,3,5-Trimethylbenzene	mg/kg	0.0052 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U
1,3-Dichlorobenzene	mg/kg	0.0026 UJ	0.00062 UJ	0.00061 UJ	0.00054 UJ	0.00061 UJ
1,3-Dichloropropane	mg/kg	0.0052 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U
1,4-Dichlorobenzene	mg/kg	0.0026 UJ	0.00062 UJ	0.00061 UJ	0.00054 UJ	0.00061 UJ
2,2-Dichloropropane	mg/kg	0.0052 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		JD29693-4	JD29693-5	JD29693-6	JD29693-7	JD29693-8
Field Sample ID		B-7-0507	B-9-0002	B-9-0305	B-8-0002	FD-01-20210809
Sample Type		N	N	N	N	FD
Parent Sample ID						B-8-0002
Sample Date	**Units**	08/09/21	08/09/21	08/09/21	08/09/21	08/09/21
1,1,1,2-Tetrachloroethane	mg/kg	0.0011 U	0.0015 U	0.0012 U	0.0013 U	0.0015 U
1,1,1-Trichloroethane	mg/kg	0.0011 U	0.0015 U	0.0012 U	0.0013 U	0.0015 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0011 U	0.0015 U	0.0012 U	0.0013 U	0.0015 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0028 U	0.0037 U	0.003 U	0.0032 U	0.0037 U
1,1,2-Trichloroethane	mg/kg	0.0011 U	0.0015 U	0.0012 U	0.0013 U	0.0015 U
1,1-Dichloroethane	mg/kg	0.00057 U	0.00075 U	0.0006 U	0.00064 U	0.00073 U
1,1-Dichloroethene	mg/kg	0.00057 U	0.00075 U	0.0006 U	0.00064 U	0.00073 U
1,1-Dichloropropene	mg/kg	0.0011 U	0.0015 U	0.0012 U	0.0013 U	0.0015 U
1,2,3-Trichlorobenzene	mg/kg	0.0028 UJ	0.0037 UJ	0.003 UJ	0.0032 UJ	0.0037 UJ
1,2,3-Trichloropropane	mg/kg	0.0028 U	0.0037 U	0.003 U	0.0032 U	0.0037 U
1,2,4-Trichlorobenzene	mg/kg	0.0028 UJ	0.0037 UJ	0.003 UJ	0.0032 UJ	0.0037 UJ
1,2,4-Trimethylbenzene	mg/kg	0.0011 U	0.0015 U	0.0012 U	0.0013 U	0.0015 U
1,2-Dibromo-3-chloropropane	mg/kg	0.0011 U	0.0015 U	0.0012 U	0.0013 U	0.0015 U
1,2-Dibromoethane	mg/kg	0.00057 U	0.00075 U	0.0006 U	0.00064 U	0.00073 U
1,2-Dichlorobenzene	mg/kg	0.00057 UJ	0.00075 UJ	0.0006 UJ	0.00064 UJ	0.00073 UJ
1,2-Dichloroethane	mg/kg	0.00057 U	0.00075 U	0.0006 U	0.00064 U	0.00073 U
1,2-Dichloropropane	mg/kg	0.0011 U	0.0015 U	0.0012 U	0.0013 U	0.0015 U
1,3,5-Trimethylbenzene	mg/kg	0.0011 U	0.0015 U	0.0012 U	0.0013 U	0.0015 U
1,3-Dichlorobenzene	mg/kg	0.00057 UJ	0.00075 UJ	0.0006 UJ	0.00064 UJ	0.00073 UJ
1,3-Dichloropropane	mg/kg	0.0011 U	0.0015 U	0.0012 U	0.0013 U	0.0015 U
1,4-Dichlorobenzene	mg/kg	0.00057 UJ	0.00075 UJ	0.0006 UJ	0.00064 UJ	0.00073 UJ
2,2-Dichloropropane	mg/kg	0.0011 U	0.0015 U	0.0012 U	0.0013 U	0.0015 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Soil
Lab Sample ID		JD29693-9
Field Sample ID		B-8-0507
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	08/09/21
1,1,1,2-Tetrachloroethane	mg/kg	0.0012 U
1,1,1-Trichloroethane	mg/kg	0.0012 U
1,1,2,2-Tetrachloroethane	mg/kg	0.0012 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0029 U
1,1,2-Trichloroethane	mg/kg	0.0012 U
1,1-Dichloroethane	mg/kg	0.00058 U
1,1-Dichloroethene	mg/kg	0.00058 U
1,1-Dichloropropene	mg/kg	0.0012 U
1,2,3-Trichlorobenzene	mg/kg	0.0029 UJ
1,2,3-Trichloropropane	mg/kg	0.0029 U
1,2,4-Trichlorobenzene	mg/kg	0.0029 UJ
1,2,4-Trimethylbenzene	mg/kg	0.0012 U
1,2-Dibromo-3-chloropropane	mg/kg	0.0012 U
1,2-Dibromoethane	mg/kg	0.00058 U
1,2-Dichlorobenzene	mg/kg	0.00058 UJ
1,2-Dichloroethane	mg/kg	0.00058 U
1,2-Dichloropropane	mg/kg	0.0012 U
1,3,5-Trimethylbenzene	mg/kg	0.0012 U
1,3-Dichlorobenzene	mg/kg	0.00058 UJ
1,3-Dichloropropane	mg/kg	0.0012 U
1,4-Dichlorobenzene	mg/kg	0.00058 UJ
2,2-Dichloropropane	mg/kg	0.0012 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		JD29693-1	JD29693-10	JD29693-11	JD29693-12	JD29693-13
Field Sample ID		B-10-0002	MW-6-0002	MW-6-0305	MW-5-0002	MW-05-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/09/21	08/09/21	08/09/21	08/09/21
2-Butanone	mg/kg	0.0083 U	0.008 U	0.012 U	0.0055 U	0.005 U
2-Chlorotoluene	mg/kg	0.0017 UJ	0.0016 UJ	0.0023 UJ	0.0011 UJ	0.001 UJ
2-Hexanone	mg/kg	0.0041 U	0.004 U	0.0058 U	0.0028 U	0.0025 U
4-Chlorotoluene	mg/kg	0.0017 UJ	0.0016 UJ	0.0023 UJ	0.0011 UJ	0.001 UJ
4-Isopropyltoluene	mg/kg	0.0017 UJ	0.0016 UJ	0.0023 UJ	0.0011 UJ	0.001 UJ
4-Methyl-2-pentanone	mg/kg	0.0041 U	0.004 U	0.0058 U	0.0028 U	0.0025 U
Acetone	mg/kg	0.0117	0.008 U	0.0156	0.0055 U	0.0128
Acrylonitrile	mg/kg	0.0083 U	0.008 U	0.012 U	0.0055 U	0.005 U
Benzene	mg/kg	0.00041 U	0.0004 U	0.00058 U	0.00028 U	0.00025 U
Bromobenzene	mg/kg	0.0041 UJ	0.004 UJ	0.0058 UJ	0.0028 UJ	0.0025 UJ
Bromodichloromethane	mg/kg	0.0017 U	0.0016 U	0.0023 U	0.0011 U	0.001 U
Bromoform	mg/kg	0.0041 U	0.004 U	0.0058 U	0.0028 U	0.0025 U
Bromomethane	mg/kg	0.0041 U	0.004 U	0.0058 U	0.0028 U	0.0025 U
Carbon disulfide	mg/kg	0.0017 UJ	0.0016 UJ	0.0023 UJ	0.0011 UJ	0.001 UJ
Carbon tetrachloride	mg/kg	0.0017 U	0.0016 U	0.0023 U	0.0011 U	0.001 U
Chlorobenzene	mg/kg	0.0017 UJ	0.0016 UJ	0.0023 UJ	0.0011 UJ	0.001 UJ
Chloroethane	mg/kg	0.0041 U	0.004 U	0.0058 U	0.0028 U	0.0025 U
Chloroform	mg/kg	0.0017 U	0.0016 U	0.0023 U	0.0011 U	0.001 U
Chloromethane	mg/kg	0.0041 U	0.004 U	0.0058 U	0.0028 U	0.0025 U
cis-1,2-Dichloroethene	mg/kg	0.00083 U	0.0008 U	0.0012 U	0.00055 U	0.0005 U
cis-1,3-Dichloropropene	mg/kg	0.0017 U	0.0016 U	0.0023 U	0.0011 U	0.001 U
Dibromochloromethane	mg/kg	0.0017 U	0.0016 U	0.0023 U	0.0011 U	0.001 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		JD29693-15	JD29693-16	JD29693-17	JD29693-18	JD29693-19
Field Sample ID		MW-4-0002	MW-4-0204	MW-1R-0002	MW-1R-0406	B-2-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/10/21	08/10/21	08/10/21	08/10/21	08/10/21
2-Butanone	mg/kg	0.0073 U	0.0133	0.0061 U	0.0092 U	0.0071 U
2-Chlorotoluene	mg/kg	0.0015 UJ	0.0017 UJ	0.0012 UJ	0.0018 UJ	0.0014 UJ
2-Hexanone	mg/kg	0.0037 U	0.0042 U	0.0031 U	0.0046 U	0.0036 U
4-Chlorotoluene	mg/kg	0.0015 UJ	0.0017 UJ	0.0012 UJ	0.0018 UJ	0.0014 UJ
4-Isopropyltoluene	mg/kg	0.0015 UJ	0.0017 UJ	0.0012 UJ	0.0018 UJ	0.0014 UJ
4-Methyl-2-pentanone	mg/kg	0.0037 U	0.0042 U	0.0031 U	0.0046 U	0.0036 U
Acetone	mg/kg	0.0073 U	0.0644	0.0061 U	0.0092 U	0.0071 U
Acrylonitrile	mg/kg	0.0073 U	0.0084 U	0.0061 U	0.0092 U	0.0071 U
Benzene	mg/kg	0.00037 U	0.00042 U	0.00031 U	0.00046 U	0.00036 U
Bromobenzene	mg/kg	0.0037 UJ	0.0042 UJ	0.0031 UJ	0.0046 UJ	0.0036 UJ
Bromodichloromethane	mg/kg	0.0015 U	0.0017 U	0.0012 U	0.0018 U	0.0014 U
Bromoform	mg/kg	0.0037 U	0.0042 U	0.0031 U	0.0046 U	0.0036 U
Bromomethane	mg/kg	0.0037 U	0.0042 U	0.0031 U	0.0046 U	0.0036 U
Carbon disulfide	mg/kg	0.0015 UJ	0.0017 UJ	0.0012 UJ	0.0018 UJ	0.0014 UJ
Carbon tetrachloride	mg/kg	0.0015 U	0.0017 U	0.0012 U	0.0018 U	0.0014 U
Chlorobenzene	mg/kg	0.0015 UJ	0.0017 UJ	0.0012 UJ	0.0018 UJ	0.0014 UJ
Chloroethane	mg/kg	0.0037 U	0.0042 U	0.0031 U	0.0046 U	0.0036 U
Chloroform	mg/kg	0.0015 U	0.0017 U	0.0012 U	0.0018 U	0.0014 U
Chloromethane	mg/kg	0.0037 U	0.0042 U	0.0031 U	0.0046 U	0.0036 U
cis-1,2-Dichloroethene	mg/kg	0.00073 U	0.00084 U	0.00061 U	0.00092 U	0.00071 U
cis-1,3-Dichloropropene	mg/kg	0.0015 U	0.0017 U	0.0012 U	0.0018 U	0.0014 U
Dibromochloromethane	mg/kg	0.0015 U	0.0017 U	0.0012 U	0.0018 U	0.0014 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		JD29693-2	JD29693-20	JD29693-21	JD29693-22	JD29693-3
Field Sample ID		B-10-0204	B-2-0507	B-3-0002	B-3-0305	B-7-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/10/21	08/10/21	08/10/21	08/09/21
2-Butanone	mg/kg	0.026 U	0.0136	0.0061 U	0.0054 U	0.0061 U
2-Chlorotoluene	mg/kg	0.0052 UJ	0.0012 UJ	0.0012 UJ	0.0011 UJ	0.0012 UJ
2-Hexanone	mg/kg	0.013 U	0.0031 U	0.003 U	0.0027 U	0.003 U
4-Chlorotoluene	mg/kg	0.0052 UJ	0.0012 UJ	0.0012 UJ	0.0011 UJ	0.0012 UJ
4-Isopropyltoluene	mg/kg	0.0052 UJ	0.0012 UJ	0.0012 UJ	0.0011 UJ	0.0012 UJ
4-Methyl-2-pentanone	mg/kg	0.013 U	0.0031 U	0.003 U	0.0027 U	0.003 U
Acetone	mg/kg	0.026 U	0.062	0.0061 U	0.0054 U	0.0061 U
Acrylonitrile	mg/kg	0.026 U	0.0062 U	0.0061 U	0.0054 U	0.0061 U
Benzene	mg/kg	0.0013 U	0.00031 U	0.0003 U	0.00027 U	0.0003 U
Bromobenzene	mg/kg	0.013 UJ	0.0031 UJ	0.003 UJ	0.0027 UJ	0.003 UJ
Bromodichloromethane	mg/kg	0.0052 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U
Bromoform	mg/kg	0.013 U	0.0031 U	0.003 U	0.0027 U	0.003 U
Bromomethane	mg/kg	0.013 U	0.0031 U	0.003 U	0.0027 U	0.003 U
Carbon disulfide	mg/kg	0.0052 UJ	0.0012 UJ	0.0012 UJ	0.0011 UJ	0.0012 UJ
Carbon tetrachloride	mg/kg	0.0052 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U
Chlorobenzene	mg/kg	0.0052 UJ	0.0012 UJ	0.0012 UJ	0.0011 UJ	0.0012 UJ
Chloroethane	mg/kg	0.013 U	0.0031 U	0.003 U	0.0027 U	0.003 U
Chloroform	mg/kg	0.0052 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U
Chloromethane	mg/kg	0.013 U	0.0031 U	0.003 U	0.0027 U	0.003 U
cis-1,2-Dichloroethene	mg/kg	0.0026 U	0.00062 U	0.00061 U	0.00054 U	0.00061 U
cis-1,3-Dichloropropene	mg/kg	0.0052 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U
Dibromochloromethane	mg/kg	0.0052 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		JD29693-4	JD29693-5	JD29693-6	JD29693-7	JD29693-8
Field Sample ID		B-7-0507	B-9-0002	B-9-0305	B-8-0002	FD-01-20210809
Sample Type		N	N	N	N	FD
Parent Sample ID						B-8-0002
Sample Date	**Units**	08/09/21	08/09/21	08/09/21	08/09/21	08/09/21
2-Butanone	mg/kg	0.0057 U	0.0075 U	0.006 U	0.0064 U	0.0073 U
2-Chlorotoluene	mg/kg	0.0011 UJ	0.0015 UJ	0.0012 UJ	0.0013 UJ	0.0015 UJ
2-Hexanone	mg/kg	0.0028 U	0.0037 U	0.003 U	0.0032 U	0.0037 U
4-Chlorotoluene	mg/kg	0.0011 UJ	0.0015 UJ	0.0012 UJ	0.0013 UJ	0.0015 UJ
4-Isopropyltoluene	mg/kg	0.0011 UJ	0.0015 UJ	0.0012 UJ	0.0013 UJ	0.0015 UJ
4-Methyl-2-pentanone	mg/kg	0.0028 U	0.0037 U	0.003 U	0.0032 U	0.0037 U
Acetone	mg/kg	0.0078	0.0075 U	0.01	0.0064 U	0.0073 U
Acrylonitrile	mg/kg	0.0057 U	0.0075 U	0.006 U	0.0064 U	0.0073 U
Benzene	mg/kg	0.00028 U	0.00037 U	0.0003 U	0.00032 U	0.00037 U
Bromobenzene	mg/kg	0.0028 UJ	0.0037 UJ	0.003 UJ	0.0032 UJ	0.0037 UJ
Bromodichloromethane	mg/kg	0.0011 U	0.0015 U	0.0012 U	0.0013 U	0.0015 U
Bromoform	mg/kg	0.0028 U	0.0037 U	0.003 U	0.0032 U	0.0037 U
Bromomethane	mg/kg	0.0028 U	0.0037 U	0.003 U	0.0032 U	0.0037 U
Carbon disulfide	mg/kg	0.0011 UJ	0.0015 UJ	0.0012 UJ	0.0013 UJ	0.0015 UJ
Carbon tetrachloride	mg/kg	0.0011 U	0.0015 U	0.0012 U	0.0013 U	0.0015 U
Chlorobenzene	mg/kg	0.0011 UJ	0.0015 UJ	0.0012 UJ	0.0013 UJ	0.0015 UJ
Chloroethane	mg/kg	0.0028 U	0.0037 U	0.003 U	0.0032 U	0.0037 U
Chloroform	mg/kg	0.0011 U	0.0015 U	0.0012 U	0.0013 U	0.0015 U
Chloromethane	mg/kg	0.0028 U	0.0037 U	0.003 U	0.0032 U	0.0037 U
cis-1,2-Dichloroethene	mg/kg	0.00057 U	0.00075 U	0.0006 U	0.00064 U	0.00073 U
cis-1,3-Dichloropropene	mg/kg	0.0011 U	0.0015 U	0.0012 U	0.0013 U	0.0015 U
Dibromochloromethane	mg/kg	0.0011 U	0.0015 U	0.0012 U	0.0013 U	0.0015 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Soil
Lab Sample ID		JD29693-9
Field Sample ID		B-8-0507
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	08/09/21
2-Butanone	mg/kg	0.0058 U
2-Chlorotoluene	mg/kg	0.0012 UJ
2-Hexanone	mg/kg	0.0029 U
4-Chlorotoluene	mg/kg	0.0012 UJ
4-Isopropyltoluene	mg/kg	0.0012 UJ
4-Methyl-2-pentanone	mg/kg	0.0029 U
Acetone	mg/kg	0.0101
Acrylonitrile	mg/kg	0.0058 U
Benzene	mg/kg	0.00029 U
Bromobenzene	mg/kg	0.0029 UJ
Bromodichloromethane	mg/kg	0.0012 U
Bromoform	mg/kg	0.0029 U
Bromomethane	mg/kg	0.0029 U
Carbon disulfide	mg/kg	0.0012 UJ
Carbon tetrachloride	mg/kg	0.0012 U
Chlorobenzene	mg/kg	0.0012 UJ
Chloroethane	mg/kg	0.0029 U
Chloroform	mg/kg	0.0012 U
Chloromethane	mg/kg	0.0029 U
cis-1,2-Dichloroethene	mg/kg	0.00058 U
cis-1,3-Dichloropropene	mg/kg	0.0012 U
Dibromochloromethane	mg/kg	0.0012 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		JD29693-1	JD29693-10	JD29693-11	JD29693-12	JD29693-13
Field Sample ID		B-10-0002	MW-6-0002	MW-6-0305	MW-5-0002	MW-05-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/09/21	08/09/21	08/09/21	08/09/21
Dibromomethane	mg/kg	0.0041 U	0.004 U	0.0058 U	0.0028 U	0.0025 U
Dichlorodifluoromethane	mg/kg	0.0041 UJ	0.004 UJ	0.0058 UJ	0.0028 UJ	0.0025 UJ
Ethylbenzene	mg/kg	0.00083 UJ	0.0008 UJ	0.0012 UJ	0.00055 UJ	0.0005 UJ
Hexachlorobutadiene	mg/kg	0.0041 UJ	0.004 UJ	0.0058 UJ	0.0028 UJ	0.0025 UJ
Isopropylbenzene	mg/kg	0.0017 U	0.0016 U	0.0023 U	0.0011 U	0.001 U
m,p-Xylene	mg/kg	0.00083 UJ	0.0008 UJ	0.0012 UJ	0.00055 UJ	0.0005 UJ
Methyl tert-butyl ether	mg/kg	0.00083 U	0.0008 U	0.0012 U	0.00055 U	0.0005 U
Methylene chloride	mg/kg	0.0041 U	0.004 U	0.0058 U	0.0028 U	0.0025 U
Naphthalene	mg/kg	0.0041 UJ	0.004 UJ	0.0058 UJ	0.0028 UJ	0.0025 UJ
n-Butylbenzene	mg/kg	0.0017 UJ	0.0016 UJ	0.0023 UJ	0.0011 UJ	0.001 UJ
n-Propylbenzene	mg/kg	0.0017 UJ	0.0016 UJ	0.0023 UJ	0.0011 UJ	0.001 UJ
o-Xylene	mg/kg	0.00083 U	0.0008 U	0.0012 U	0.00055 U	0.0005 U
sec-Butylbenzene	mg/kg	0.0017 UJ	0.0016 UJ	0.0023 UJ	0.0011 UJ	0.001 UJ
Styrene	mg/kg	0.0017 UJ	0.0016 UJ	0.0023 UJ	0.0011 UJ	0.001 UJ
tert-Butylbenzene	mg/kg	0.0017 U	0.0016 U	0.0023 U	0.0011 U	0.001 U
Tetrachloroethene	mg/kg	0.0017 UJ	0.0016 UJ	0.0023 UJ	0.0011 UJ	0.001 UJ
Tetrahydrofuran	mg/kg	0.0083 U	0.008 U	0.012 U	0.0055 U	0.005 U
Toluene	mg/kg	0.00083 U	0.0008 U	0.0012 U	0.00055 U	0.0005 U
trans-1,2-Dichloroethene	mg/kg	0.00083 UJ	0.0008 UJ	0.0012 UJ	0.00055 UJ	0.0005 UJ
trans-1,3-Dichloropropene	mg/kg	0.0017 UJ	0.0016 UJ	0.0023 UJ	0.0011 UJ	0.001 UJ
trans-1,4-Dichlorobutene	mg/kg	0.0041 UJ	0.004 UJ	0.0058 UJ	0.0028 UJ	0.0025 UJ
Trichloroethene	mg/kg	0.00083 U	0.0008 U	0.0012 U	0.00055 U	0.0005 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		JD29693-15	JD29693-16	JD29693-17	JD29693-18	JD29693-19
Field Sample ID		MW-4-0002	MW-4-0204	MW-1R-0002	MW-1R-0406	B-2-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/10/21	08/10/21	08/10/21	08/10/21	08/10/21
Dibromomethane	mg/kg	0.0037 U	0.0042 U	0.0031 U	0.0046 U	0.0036 U
Dichlorodifluoromethane	mg/kg	0.0037 UJ	0.0042 UJ	0.0031 UJ	0.0046 UJ	0.0036 UJ
Ethylbenzene	mg/kg	0.00073 UJ	0.00084 UJ	0.00061 UJ	0.00092 UJ	0.00071 UJ
Hexachlorobutadiene	mg/kg	0.0037 UJ	0.0042 UJ	0.0031 UJ	0.0046 UJ	0.0036 UJ
Isopropylbenzene	mg/kg	0.0015 U	0.0017 U	0.0012 U	0.0018 U	0.0014 U
m,p-Xylene	mg/kg	0.00073 UJ	0.00084 UJ	0.00061 UJ	0.00092 UJ	0.00071 UJ
Methyl tert-butyl ether	mg/kg	0.00073 U	0.00084 U	0.00061 U	0.00092 U	0.00071 U
Methylene chloride	mg/kg	0.0037 U	0.0042 U	0.0031 U	0.0046 U	0.0036 U
Naphthalene	mg/kg	0.0037 UJ	0.0042 UJ	0.0031 UJ	0.0046 UJ	0.0036 UJ
n-Butylbenzene	mg/kg	0.0015 UJ	0.0017 UJ	0.0012 UJ	0.0018 UJ	0.0014 UJ
n-Propylbenzene	mg/kg	0.0015 UJ	0.0017 UJ	0.0012 UJ	0.0018 UJ	0.0014 UJ
o-Xylene	mg/kg	0.00073 U	0.00084 U	0.00061 U	0.00092 U	0.00071 U
sec-Butylbenzene	mg/kg	0.0015 UJ	0.0017 UJ	0.0012 UJ	0.0018 UJ	0.0014 UJ
Styrene	mg/kg	0.0015 UJ	0.0017 UJ	0.0012 UJ	0.0018 UJ	0.0014 UJ
tert-Butylbenzene	mg/kg	0.0015 U	0.0017 U	0.0012 U	0.0018 U	0.0014 U
Tetrachloroethene	mg/kg	0.0015 UJ	0.0017 UJ	0.0012 UJ	0.0018 UJ	0.0014 UJ
Tetrahydrofuran	mg/kg	0.0073 U	0.0084 U	0.0061 U	0.0092 U	0.0071 U
Toluene	mg/kg	0.00073 U	0.00084 U	0.00061 U	0.00092 U	0.00071 U
trans-1,2-Dichloroethene	mg/kg	0.00073 UJ	0.00084 UJ	0.00061 UJ	0.00092 UJ	0.00071 UJ
trans-1,3-Dichloropropene	mg/kg	0.0015 UJ	0.0017 UJ	0.0012 UJ	0.0018 UJ	0.0014 UJ
trans-1,4-Dichlorobutene	mg/kg	0.0037 UJ	0.0042 UJ	0.0031 UJ	0.0046 UJ	0.0036 UJ
Trichloroethene	mg/kg	0.00073 U	0.00084 U	0.00061 U	0.00092 U	0.00071 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		JD29693-2	JD29693-20	JD29693-21	JD29693-22	JD29693-3
Field Sample ID		B-10-0204	B-2-0507	B-3-0002	B-3-0305	B-7-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/10/21	08/10/21	08/10/21	08/09/21
Dibromomethane	mg/kg	0.013 U	0.0031 U	0.003 U	0.0027 U	0.003 U
Dichlorodifluoromethane	mg/kg	0.013 UJ	0.0031 UJ	0.003 UJ	0.0027 UJ	0.003 UJ
Ethylbenzene	mg/kg	0.0026 UJ	0.00062 UJ	0.00061 UJ	0.00054 UJ	0.00061 UJ
Hexachlorobutadiene	mg/kg	0.013 UJ	0.0031 UJ	0.003 UJ	0.0027 UJ	0.003 UJ
Isopropylbenzene	mg/kg	0.0052 U	0.0018	0.0012 U	0.0011 U	0.0012 U
m,p-Xylene	mg/kg	0.0026 UJ	0.00062 UJ	0.00061 UJ	0.00054 UJ	0.00061 UJ
Methyl tert-butyl ether	mg/kg	0.0026 U	0.00062 U	0.00061 U	0.00054 U	0.00061 U
Methylene chloride	mg/kg	0.013 U	0.0031 U	0.003 U	0.0027 U	0.003 U
Naphthalene	mg/kg	0.013 UJ	0.0031 UJ	0.003 UJ	0.0027 UJ	0.003 UJ
n-Butylbenzene	mg/kg	0.0052 UJ	0.0012 UJ	0.0012 UJ	0.0011 UJ	0.0012 UJ
n-Propylbenzene	mg/kg	0.0052 UJ	0.0014 J	0.0012 UJ	0.0011 UJ	0.0012 UJ
o-Xylene	mg/kg	0.0026 U	0.00062 U	0.00061 U	0.00054 U	0.00061 U
sec-Butylbenzene	mg/kg	0.0052 UJ	0.0086 J	0.0012 UJ	0.0011 UJ	0.0012 UJ
Styrene	mg/kg	0.0052 UJ	0.0012 UJ	0.0012 UJ	0.0011 UJ	0.0012 UJ
tert-Butylbenzene	mg/kg	0.0052 U	0.0022	0.0012 U	0.0011 U	0.0012 U
Tetrachloroethene	mg/kg	0.0052 UJ	0.0012 UJ	0.0012 UJ	0.0011 UJ	0.0012 UJ
Tetrahydrofuran	mg/kg	0.026 U	0.0062 U	0.0061 U	0.0054 U	0.0061 U
Toluene	mg/kg	0.0026 U	0.00062 U	0.00061 U	0.00054 U	0.00061 U
trans-1,2-Dichloroethene	mg/kg	0.0026 UJ	0.00062 UJ	0.00061 UJ	0.00054 UJ	0.00061 UJ
trans-1,3-Dichloropropene	mg/kg	0.0052 UJ	0.0012 UJ	0.0012 UJ	0.0011 UJ	0.0012 UJ
trans-1,4-Dichlorobutene	mg/kg	0.013 UJ	0.0031 UJ	0.003 UJ	0.0027 UJ	0.003 UJ
Trichloroethene	mg/kg	0.0026 U	0.00062 U	0.00061 U	0.00054 U	0.00061 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		JD29693-4	JD29693-5	JD29693-6	JD29693-7	JD29693-8
Field Sample ID		B-7-0507	B-9-0002	B-9-0305	B-8-0002	FD-01-20210809
Sample Type		N	N	N	N	FD
Parent Sample ID						B-8-0002
Sample Date	**Units**	08/09/21	08/09/21	08/09/21	08/09/21	08/09/21
Dibromomethane	mg/kg	0.0028 U	0.0037 U	0.003 U	0.0032 U	0.0037 U
Dichlorodifluoromethane	mg/kg	0.0028 UJ	0.0037 UJ	0.003 UJ	0.0032 UJ	0.0037 UJ
Ethylbenzene	mg/kg	0.00057 UJ	0.00075 UJ	0.0006 UJ	0.00064 UJ	0.00073 UJ
Hexachlorobutadiene	mg/kg	0.0028 UJ	0.0037 UJ	0.003 UJ	0.0032 UJ	0.0037 UJ
Isopropylbenzene	mg/kg	0.0011 U	0.0015 U	0.0012 U	0.0013 U	0.0015 U
m,p-Xylene	mg/kg	0.00057 UJ	0.00075 UJ	0.0006 UJ	0.00064 UJ	0.00073 UJ
Methyl tert-butyl ether	mg/kg	0.00057 U	0.00075 U	0.0006 U	0.00064 U	0.00073 U
Methylene chloride	mg/kg	0.0028 U	0.0037 U	0.003 U	0.0032 U	0.0037 U
Naphthalene	mg/kg	0.0028 UJ	0.0037 UJ	0.003 UJ	0.0032 UJ	0.0037 UJ
n-Butylbenzene	mg/kg	0.0011 UJ	0.0015 UJ	0.0012 UJ	0.0013 UJ	0.0015 UJ
n-Propylbenzene	mg/kg	0.0011 UJ	0.0015 UJ	0.0012 UJ	0.0013 UJ	0.0015 UJ
o-Xylene	mg/kg	0.00057 U	0.00075 U	0.0006 U	0.00064 U	0.00073 U
sec-Butylbenzene	mg/kg	0.0011 UJ	0.0015 UJ	0.0012 UJ	0.0013 UJ	0.0015 UJ
Styrene	mg/kg	0.0011 UJ	0.0015 UJ	0.0012 UJ	0.0013 UJ	0.0015 UJ
tert-Butylbenzene	mg/kg	0.0011 U	0.0015 U	0.0012 U	0.0013 U	0.0015 U
Tetrachloroethene	mg/kg	0.0011 UJ	0.0015 UJ	0.0012 UJ	0.0013 UJ	0.0015 UJ
Tetrahydrofuran	mg/kg	0.0057 U	0.0075 U	0.006 U	0.0064 U	0.0073 U
Toluene	mg/kg	0.00057 U	0.00075 U	0.0006 U	0.00064 U	0.00073 U
trans-1,2-Dichloroethene	mg/kg	0.00057 UJ	0.00075 UJ	0.0006 UJ	0.00064 UJ	0.00073 UJ
trans-1,3-Dichloropropene	mg/kg	0.0011 UJ	0.0015 UJ	0.0012 UJ	0.0013 UJ	0.0015 UJ
trans-1,4-Dichlorobutene	mg/kg	0.0028 UJ	0.0037 UJ	0.003 UJ	0.0032 UJ	0.0037 UJ
Trichloroethene	mg/kg	0.00057 U	0.00075 U	0.0006 U	0.00064 U	0.00073 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Soil
Lab Sample ID		JD29693-9
Field Sample ID		B-8-0507
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	08/09/21
Dibromomethane	mg/kg	0.0029 U
Dichlorodifluoromethane	mg/kg	0.0029 UJ
Ethylbenzene	mg/kg	0.00058 UJ
Hexachlorobutadiene	mg/kg	0.0029 UJ
Isopropylbenzene	mg/kg	0.0012 U
m,p-Xylene	mg/kg	0.00058 UJ
Methyl tert-butyl ether	mg/kg	0.00058 U
Methylene chloride	mg/kg	0.0029 U
Naphthalene	mg/kg	0.0029 UJ
n-Butylbenzene	mg/kg	0.0012 UJ
n-Propylbenzene	mg/kg	0.0012 UJ
o-Xylene	mg/kg	0.00058 U
sec-Butylbenzene	mg/kg	0.0012 UJ
Styrene	mg/kg	0.0012 UJ
tert-Butylbenzene	mg/kg	0.0012 U
Tetrachloroethene	mg/kg	0.0012 UJ
Tetrahydrofuran	mg/kg	0.0058 U
Toluene	mg/kg	0.00058 U
trans-1,2-Dichloroethene	mg/kg	0.00058 UJ
trans-1,3-Dichloropropene	mg/kg	0.0012 UJ
trans-1,4-Dichlorobutene	mg/kg	0.0029 UJ
Trichloroethene	mg/kg	0.00058 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		JD29693-1	JD29693-10	JD29693-11	JD29693-12	JD29693-13
Field Sample ID		B-10-0002	MW-6-0002	MW-6-0305	MW-5-0002	MW-05-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/09/21	08/09/21	08/09/21	08/09/21
Trichlorofluoromethane	mg/kg	0.0041 U	0.004 U	0.0058 U	0.0028 U	0.0025 U
Vinyl chloride	mg/kg	0.0017 U	0.0016 U	0.0023 U	0.0011 U	0.001 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		JD29693-15	JD29693-16	JD29693-17	JD29693-18	JD29693-19
Field Sample ID		MW-4-0002	MW-4-0204	MW-1R-0002	MW-1R-0406	B-2-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/10/21	08/10/21	08/10/21	08/10/21	08/10/21
Trichlorofluoromethane	mg/kg	0.0037 U	0.0042 U	0.0031 U	0.0046 U	0.0036 U
Vinyl chloride	mg/kg	0.0015 U	0.0017 U	0.0012 U	0.0018 U	0.0014 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		JD29693-2	JD29693-20	JD29693-21	JD29693-22	JD29693-3
Field Sample ID		B-10-0204	B-2-0507	B-3-0002	B-3-0305	B-7-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/10/21	08/10/21	08/10/21	08/09/21
Trichlorofluoromethane	mg/kg	0.013 U	0.0031 U	0.003 U	0.0027 U	0.003 U
Vinyl chloride	mg/kg	0.0052 U	0.0012 U	0.0012 U	0.0011 U	0.0012 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil				
Lab Sample ID		JD29693-4	JD29693-5	JD29693-6	JD29693-7	JD29693-8
Field Sample ID		B-7-0507	B-9-0002	B-9-0305	B-8-0002	FD-01-20210809
Sample Type		N	N	N	N	FD
Parent Sample ID						B-8-0002
Sample Date	**Units**	08/09/21	08/09/21	08/09/21	08/09/21	08/09/21
Trichlorofluoromethane	mg/kg	0.0028 U	0.0037 U	0.003 U	0.0032 U	0.0037 U
Vinyl chloride	mg/kg	0.0011 U	0.0015 U	0.0012 U	0.0013 U	0.0015 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil
Lab Sample ID		JD29693-9
Field Sample ID		B-8-0507
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	08/09/21
Trichlorofluoromethane	mg/kg	0.0029 U
Vinyl chloride	mg/kg	0.0012 U

DATA SUMMARY TABLE

Analysis		General Chemistry in Soil				
Lab Sample ID		JD29693-1	JD29693-10	JD29693-11	JD29693-12	JD29693-13
Field Sample ID		B-10-0002	MW-6-0002	MW-6-0305	MW-5-0002	MW-05-0810
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/09/21	08/09/21	08/09/21	08/09/21
Solids, Percent	percent	86.5	90.7	85.5	94.5	84.7

DATA SUMMARY TABLE

Analysis		General Chemistry in Soil				
Lab Sample ID		JD29693-15	JD29693-16	JD29693-17	JD29693-18	JD29693-19
Field Sample ID		MW-4-0002	MW-4-0204	MW-1R-0002	MW-1R-0406	B-2-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/10/21	08/10/21	08/10/21	08/10/21	08/10/21
Solids, Percent	percent	89.7	70	91.9	86.5	84.8

DATA SUMMARY TABLE

Analysis		General Chemistry in Soil				
Lab Sample ID		JD29693-2	JD29693-20	JD29693-21	JD29693-22	JD29693-3
Field Sample ID		B-10-0204	B-2-0507	B-3-0002	B-3-0305	B-7-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/10/21	08/10/21	08/10/21	08/09/21
Solids, Percent	percent	91.6	81.9	91.3	87.5	88.8

DATA SUMMARY TABLE

Analysis		General Chemistry in Soil				
Lab Sample ID		JD29693-4	JD29693-5	JD29693-6	JD29693-7	JD29693-8
Field Sample ID		B-7-0507	B-9-0002	B-9-0305	B-8-0002	FD-01-20210809
Sample Type		N	N	N	N	FD
Parent Sample ID						B-8-0002
Sample Date	**Units**	08/09/21	08/09/21	08/09/21	08/09/21	08/09/21
Solids, Percent	percent	79.4	87	93.4	80.6	82

DATA SUMMARY TABLE

Analysis		General Chemistry in Soil
Lab Sample ID		JD29693-9
Field Sample ID		B-8-0507
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	08/09/21
Solids, Percent	percent	80.9

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix
Lab Sample ID		JD29693-14
Field Sample ID		TB-01
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	08/10/21
1,1,1,2-Tetrachloroethane	mg/kg	0.002 U
1,1,1-Trichloroethane	mg/kg	0.002 U
1,1,2,2-Tetrachloroethane	mg/kg	0.002 U
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.005 U
1,1,2-Trichloroethane	mg/kg	0.002 U
1,1-Dichloroethane	mg/kg	0.001 U
1,1-Dichloroethene	mg/kg	0.001 U
1,1-Dichloropropene	mg/kg	0.002 U
1,2,3-Trichlorobenzene	mg/kg	0.005 UJ
1,2,3-Trichloropropane	mg/kg	0.005 U
1,2,4-Trichlorobenzene	mg/kg	0.005 UJ
1,2,4-Trimethylbenzene	mg/kg	0.002 U
1,2-Dibromo-3-chloropropane	mg/kg	0.002 U
1,2-Dibromoethane	mg/kg	0.001 U
1,2-Dichlorobenzene	mg/kg	0.001 UJ
1,2-Dichloroethane	mg/kg	0.001 U
1,2-Dichloropropane	mg/kg	0.002 U
1,3,5-Trimethylbenzene	mg/kg	0.002 U
1,3-Dichlorobenzene	mg/kg	0.001 UJ
1,3-Dichloropropane	mg/kg	0.002 U
1,4-Dichlorobenzene	mg/kg	0.001 UJ

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix
Lab Sample ID		JD29693-14
Field Sample ID		TB-01
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	08/10/21
2,2-Dichloropropane	mg/kg	0.002 U
2-Butanone	mg/kg	0.01 U
2-Chlorotoluene	mg/kg	0.002 UJ
2-Hexanone	mg/kg	0.005 U
4-Chlorotoluene	mg/kg	0.002 UJ
4-Isopropyltoluene	mg/kg	0.002 UJ
4-Methyl-2-pentanone	mg/kg	0.005 U
Acetone	mg/kg	0.01 U
Acrylonitrile	mg/kg	0.01 U
Benzene	mg/kg	0.0005 U
Bromobenzene	mg/kg	0.005 UJ
Bromodichloromethane	mg/kg	0.002 U
Bromoform	mg/kg	0.005 U
Bromomethane	mg/kg	0.005 U
Carbon disulfide	mg/kg	0.002 UJ
Carbon tetrachloride	mg/kg	0.002 U
Chlorobenzene	mg/kg	0.002 UJ
Chloroethane	mg/kg	0.005 U
Chloroform	mg/kg	0.002 U
Chloromethane	mg/kg	0.005 U
cis-1,2-Dichloroethene	mg/kg	0.001 U

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix
Lab Sample ID		JD29693-14
Field Sample ID		TB-01
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	08/10/21
cis-1,3-Dichloropropene	mg/kg	0.002 U
Dibromochloromethane	mg/kg	0.002 U
Dibromomethane	mg/kg	0.005 U
Dichlorodifluoromethane	mg/kg	0.005 UJ
Ethylbenzene	mg/kg	0.001 UJ
Hexachlorobutadiene	mg/kg	0.005 UJ
Isopropylbenzene	mg/kg	0.002 U
m,p-Xylene	mg/kg	0.001 UJ
Methyl tert-butyl ether	mg/kg	0.001 U
Methylene chloride	mg/kg	0.005 U
Naphthalene	mg/kg	0.005 UJ
n-Butylbenzene	mg/kg	0.002 UJ
n-Propylbenzene	mg/kg	0.002 UJ
o-Xylene	mg/kg	0.001 U
sec-Butylbenzene	mg/kg	0.002 UJ
Styrene	mg/kg	0.002 UJ
tert-Butylbenzene	mg/kg	0.002 U
Tetrachloroethene	mg/kg	0.002 UJ
Tetrahydrofuran	mg/kg	0.01 U
Toluene	mg/kg	0.001 U
trans-1,2-Dichloroethene	mg/kg	0.001 UJ

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Soil/Solid Quality Control Matrix
Lab Sample ID		JD29693-14
Field Sample ID		TB-01
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	08/10/21
trans-1,3-Dichloropropene	mg/kg	0.002 UJ
trans-1,4-Dichlorobutene	mg/kg	0.005 UJ
Trichloroethene	mg/kg	0.001 U
Trichlorofluoromethane	mg/kg	0.005 U
Vinyl chloride	mg/kg	0.002 U

Data Review Qualification Actions
Case: 43 Hempstead Street
SDG: JD29693

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
VOCs					
	Bromobenzene, n-Butylbenzene, Carbon disulfide, Chlorobenzene, 2-Chlorotoluene, 4-Chlorotoluene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Ethylbenzene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, 4-Isopropyltoluene, Tetrachloroethene, trans-1,4-dichloro-2-butene, Dichlorodifluoromethane, Hexachlorobutadiene, Naphthalene, Styrene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, m,p-Xylene	All soils	MS/MSD recovery (low)	UJ	%Rs > 20% but < lower limit. No detects.
	sec-Butylbenzene, n-Propylbenzene	All soils	MS/MSD recovery (low)	J/UJ	%Rs > 20% but < lower limit.
PAHs - SIM					
	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Pyrene	FD-01-20210809	Surrogate recovery (high)	J+/A; final qual J/UJ	Indeterminant bias due to FD imprecision and/or MS/MSD recoveries. No NDs.
	Phenanthrene	FD-01-20210809	Surrogate recovery (high)	J+/A	Detected
	Fluoranthene, Pyrene	MW-6-0305	Surrogate recovery (high)	J+/A; final qual J/UJ	Indeterminant bias due to FD imprecision. No NDs.

Data Review Qualification Actions
Case: 43 Hempstead Street
SDG: JD29693

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
	Phenanthrene	MW-6-0305	Surrogate recovery (high)	J+/A	Detected.
	Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Indeno(1,2,3-cd)pyrene, Fluoranthene, Pyrene	MW-4-0002	Surrogate recovery (high)	J+/A; final qual J/UJ	Indeterminant bias due to FD imprecision and/or MS/MSD recoveries. No NDs.
	Fluorene, Phenanthrene	MW-4-0002	Surrogate recovery (high)	J+/A	No NDs.
	Acenaphthylene, Benzo(a)pyrene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene, Naphthalene	All soils	MS/MSD recovery (low/high)	J/UJ	
	Anthracene, Benzo(a)pyrene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, and Indeno(1,2,3-cd)pyrene	All soils	MS/MSD precision	J/A	
	Acenaphthene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Naphthalene, Pyrene	All soils	Field duplicate precision	J/UJ	

Data Review Qualification Actions
Case: 43 Hempstead Street
SDG: JD29693

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
Pesticides					
	4,4'-DDD, 4,4'-DDE, 4,4'-DDT	All soils	Field duplicate precision	J/UJ	
	4,4'-DDD, 4,4'-DDE, 4,4'-DDT	B-8-0002	Surrogate recovery (high)	J+/A; final qual J/UJ	Indeterminant bias due to FD imprecision. Detected.
	4,4'-DDE, 4,4'-DDT	MW-6-0002	Surrogate recovery (high)	J+/A; final qual J/UJ	Indeterminant bias due to FD imprecision. Detected.
	4,4'-DDD	MW-6-0305	Surrogate recovery (high)	J+/A; final qual J/UJ	Indeterminant bias due to FD imprecision. Detected.
	4,4'-DDD	B-3-0305	Surrogate recovery (high)	J+/A; final qual J/UJ	Indeterminant bias due to FD imprecision and dual column imprecision. Detected.
	Hexachlorobenzene	B-10-0002, B-3-0002	Surrogate recovery (high)	J+; final qual J	Indeterminant bias due to dual col imprecision.
	Hexachlorobenzene	MW-6-0002	Surrogate recovery (high)	J+	
	4,4'-DDD	B-8-0002, MW-6-0305, MW-1R-0406, B-2-0002, B-3-0305	Dual column precision	J	
	4,4'-DDE	MW-6-0002	Dual column precision	J	
	4,4'-DDT	B-9-0002	Dual column precision	J	
	Hexachlorobenzene	B-10-0002, B-7-0002, B-8-0507, MW-4-0002, B-3-0002	Dual column precision	J	

Data Review Qualification Actions
Case: 43 Hempstead Street
SDG: JD29693

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
PCBs					
	Aroclor 1254, Total Aroclors	B-10-0002	Surrogate recovery (high)	J+/A	All other Aroclor results ND.
Metals					
	Zinc	All soils	Field duplicate precision	J/UJ	No NDs
	Zinc	All soils	Serial dilution	J/UJ	No NDs
	Zinc	All soils	MS/MSD recovery (low, high); no post-digest spike and precision	J/UJ	No NDs; indeterminate bias
	Antimony	All soils	MS/MSD recovery (low); post-digest spike results acceptable	J/UJ	
	Copper	All soils	MSD recovery (high); no post-digest spike	J+/A	No NDs.
ETPH					
	Diesel Range Organics (C9-C36)	B-7-0002, B-8-0507, MW-6-0002	Surrogate recovery (low)	J-/UJ	No NDs

A=Accept

Tier 1/Stage 2A Data Review Checklist

Project: 43 Hempstead Street, New London, Connecticut
Targeted Brownfields Assessment (TBA)
Project #: 93203.15
Case#: NA
Date: 09/22/2021
Methods: Volatile Organic Compounds (VOCs) by (8260D)
Polycyclic Aromatic Hydrocarbons (PAHs) by Selected Ion Monitoring (SIM) (8270E-SIM)
Pesticides (8081B)
Polychlorinated Biphenyls (PCBs) by (8082A)
Metals (Reasonable Confidence Protocol [RCP]-15 Metals) (6010D/7471B)
Extractable Total Petroleum Hydrocarbon (CT ETPH)

Laboratory: SGS North America, Inc., Dayton, NJ
SDG: JD29693
Reviewer: Linda Terzis

1. **Case Narrative and Data Package Completeness (COC and Analyte List Review)**
Twenty-one (21) soil samples were listed on the COC for SDG JD29693, including one field duplicate sample. One trip blank sample was also included on the COC. All samples were collected on 08/09/2021 and 08/10/2021. The samples were received at the lab on 08/11/2021 at 3.7 and 2.8C.

Sample ID	Lab ID	Analyses
B-10-0002	JD29693-1	VOCs, PAHs-SIM, Pesticides, PCBs, RCP-15 Metals, ETPH
B-10-0204	JD29693-2	
B-7-0002	JD29693-3	
B-7-0507	JD29693-4	
B-9-0002	JD29693-5	
B-9-0305	JD29693-6	
B-8-0002	JD29693-7	
FD-01-20210809	JD29693-8	
B-8-0507	JD29693-9	
MW-6-0002	JD29693-10	
MW-6-0305	JD29693-11	
MW-5-0002	JD29693-12	
MW-05-0810	JD29693-13	
MW-4-0002	JD29693-15	
MW-4-0204	JD29693-16	
MW-1R-0002	JD29693-17	
MW-1R-0406	JD29693-18	
B-2-0002	JD29693-19	
B-2-0507	JD29693-20	
B-3-0002	JD29693-21	
B-3-0305	JD29693-22	
TB-01	JD29693-14	VOCs

Nobis Group®
585 Middlesex Street
Lowell, MA 01851
T (978) 683-0891

The collection date was appended to the sample name for FD-01-20210809, which does not match the COC. No action is required except to note this discrepancy.

The data were evaluated using the Quality Assurance Project Plan Addendum (QAPPA) (dated July 2021) and the Program QAPP (dated May 2017). Both were prepared by KGSNE, LLC. The QAPPA appends and incorporates by reference the procedures and quality control measures detailed in the Program QAPP (May 2017). Therefore, site data for this SDG were evaluated using both the QAPPA of July 2021 and the Program QAPP dated May 2017. The Connecticut Department of Energy and Environmental Protection (CTDEEP) Reasonable Confidence Protocol (RCP) methods were used to perform all sample analyses. As a result, the relevant quality control (QC) spiking compounds and QC limits reported by the laboratory are generally more consistent with the RCP Methods than with those in the Program QAPP (e.g., many QC spiking compounds do not match those in the Program QAPP). Therefore, the RCP method QC limits were also used for data validation.

Compound/analyte lists reported by the laboratory for the VOC, PAH, Pesticide, PCB, Metals, and ETPH analyses were compared to the lists provided in QAPPA Table 3. All required compounds/analytes were analyzed by the laboratory except for the following inconsistencies:

PAHs: The compound 2-methylnaphthalene is included in Table 3 of QAPPA for PAH analysis but the laboratory report did not include results for this compound. The laboratory was contacted and analyses for 2-methylnaphthalene were subsequently submitted as SDG JD29693T. Results are included in this evaluation and no further action is taken.

Pesticides: Hexachlorobenzene is included in the pesticide list on Table 3 of QAPPA 3 but was not reported in the pesticide fraction. The compound is also listed on Table 3 for the SVOC analyses but since only PAHs were analyzed, hexachlorobenzene was not reported in either the pesticide or PAH fraction. The laboratory was contacted and analyses for hexachlorobenzene were subsequently submitted as SDG JD29693U. Results are included in this evaluation and no further action is taken. In addition, delta-BHC is not included on Table 3 for pesticide analysis, but the laboratory analyzed and reported results for the compound in the pesticide fraction.

2. Holding Time and Sample Preservation Compliance

Receipt temperatures acceptable (≤ 6°), as specified in the QAPPA (July 2021). Samples were received at the laboratory at a maximum temperature of 3.7° C.

VOCs: Holding time criteria (analyzed within 14 days) met.

PAHs: Holding time criteria (extracted within 14 days and analyzed within 40 days of extraction) met.

Pesticides: Holding time criteria (extracted within 14 days and analyzed within 40 days of extraction) met.

PCBs: Holding time criteria (extracted within 14 days and analyzed within 40 days of extraction) met.

Metals: Holding time criteria (analyzed within 28 days for Hg; within 180 days all others) met.

ETPH: Holding time criteria (extracted within 14 days and analyzed within 40 days of extraction) met.

3. Calibration Issues

Not assessed for S2AVM data review.

4. Lab and Field Blanks

VOCs: Results for VOC lab blanks V1C7850-MB, V1C7851-MB, V1C7853-MB, V1C7854-MB, and V1C7860-MB were non-detect. Results for the trip blank TB-01 (JD29693-14) were non-detect. No blank actions required.

PAHs: Results for PAH lab blanks OP34845A-MB1 and OP34846A-MB1 were non-detect. No blank actions required.

Pesticides: Results for pesticide lab blanks OP34849-MB1 and OP34851-MB1 were non-detect. No blank actions required.

PCBs: Results for PCB lab blanks OP34850-MB1, OP34852-MB1, and OP34955-MB1 were non-detect. No blank actions required.

Metals: Results for metal lab blanks associated with analytical batches MP28177 and MP28178 were non-detect. Results for mercury lab blanks associated with analytical batches MP28186 and MP28187 were non-detect. No blank actions required.

ETPH: Results for ETPH lab blanks OP34853-MB1 and OP34854-MB1 were non-detect. No blank actions required.

No equipment blanks are associated with the samples of this SDG. No action required.

5. Interference Check Sample (metals only)

Not assessed for S2AVM data review.

6. Surrogates

The Program QAPP (May 2017) was used to evaluate site data for surrogate recovery. Where available, the Program QAPP-specific surrogate recovery limits were used to evaluate surrogate recoveries in the samples. If no Program QAPP-specific recovery limits were available for a surrogate, the recovery limits specified in the RCP method were used.

VOCs: Percent surrogate recoveries for the samples were within the Program QAPP-specific and/or RCP method limits. No action is required.

PAHs: Percent surrogate recoveries were within the Program QAPP-specific and/or RCP method limits in all samples except for samples FD-01-20210809, MW-6-0305, and MW-4-0002, where the %Rs for the surrogate 2-fluorbiphenyl exceeded the lab-established limits of 35-84% in various analytical runs. The %Rs for these samples were 90% (run #2) for sample FD-01-20210809, 89% (run #3) for sample MW-6-0305, and 85% (run #2) and 90% (run #3) in sample MW-4-0002. Detected results reported from these analytical runs are qualified as estimated with a potential high bias (J+) due to the high surrogate recoveries. Note that the final qualification for

these results is J/UJ with an indeterminate bias due to field duplicate imprecision and/or MS/MSD recovery, with the exception of phenanthrene in samples FD-01-20210809 and MW-6-0305, and fluorene and phenanthrene in sample MW-4-0002. These results are qualified as estimated with a potential high bias (J+) and are not impacted by field duplicate imprecision. There were no non-detect results. Refer to the Qualifier Actions table in the documentation section of this memorandum for details.

Pesticides: Decachlorobiphenyl (DCB) surrogate recoveries exceeded the Program QAPP-specific and RCP method recovery limits of 30-150%, in one or both columns and for one or more analytical runs, in samples B-10-0002, B-8-0002, MW-6-0002, MW-6-0305, MW-1R-0002, B-3-0002, and B-3-0305. The recovery of Tetrachloro-m-xylene (TMX) also exceeded the 30-150% limits in sample MW-6-0305. Detected results in these samples (4,4'-DDD, 4,4'-DDE, 4,4'-DDT, and/or hexachlorobenzene) are qualified as estimated with a potential high bias (J+) due to the high surrogate recoveries. Non-detect results are accepted without qualification since the potential bias is high. Note that the final qualifiers for 4,4'-DDD, 44'-DDE, and 4,4'-DDT are J/UJ with an indeterminate bias due to field duplicate imprecision. Results for sample MW-1R-0002 are all non-detect; therefore, these results are accepted without qualification for surrogate recovery.

PCBs: Percent recoveries of DCB exceeded the Program QAPP-specific and RCP method recovery limits of 30-150% in samples B-10-0002, B-10-0204, B-8-0507, MW-6-0002, MW-6-0305, MW-4-0002, and MW-1R-0002. Detected results for Aroclor 1254 and Total Aroclors in sample B-10-0002 are qualified as estimated with a high bias (J+) due to the high surrogate recovery. Sample results were non-detect for all other Aroclors in remaining samples with surrogate recovery exceedances. Non-detect results are accepted without qualification since the potential bias is high.

Metals: Not applicable for this analysis.

ETPH: Surrogate recovery limits for ETPH were not provided in the Program QAPP. Therefore, the RCP method recovery limits of 50-150% were used for data validation purposes.

Percent recoveries of o-terphenyl were below the RCP method recovery limits of 50-150% in samples B-7-0002 (44%), B-8-0507 (43%), and MW-6-0002 (48%). Detected results for diesel range organics (DRO) (C9-C36) are qualified as estimated with a potential low bias (J-) in these samples due to the low surrogate recoveries. There were no non-detect results in these samples.

7. Laboratory Control Samples

VOCs: Percent recoveries in the LCS analyses were all within the Program QAPP and the RCP method limits of 70-130%. No action required.

PAHs: The Program QAPP indicates that percent recoveries for the LCS analysis for PAHs should meet laboratory-established limits. The laboratory-established percent recovery limits are within the RCP method limit range of 40-140% for base/neutral compounds (i.e., for all PAH compounds). Percent recoveries of all LCS PAH compounds are within with the RCP method limit range. No action is required.

Pesticides: Percent recoveries in the LCS analyses for pesticides are all within the Program QAPP and/or limits in the RCP method. No action is required.

PCBs: Percent recoveries in the LCS analyses for PCBs are within the Program QAPP recovery limits of 50-150% except for the LCS OP34850-BS1, where the recoveries of Aroclors 1016 and

1260 exceeded the limits (305% and 269%, respectively). Aroclors were not detected in the samples associated with this LCS analysis; therefore, no action is taken. Non-detect results are accepted without qualification since the potential bias is high.

Metals: Percent recoveries for the metals and mercury LCS analyses were within the Program QAPP and RCP method recovery limit range of 80-120%. No action is required.

ETPH: Recovery limits for ETPH were not provided in the Program QAPP. Therefore, the RCP default recovery limits of 60-120% were used for data validation purposes.

Percent recoveries for the ETPH LCS analysis were within the RCP method recovery limits of 60-120%. No action required.

8. Matrix Spikes

Based on Region 1 guidelines, qualifications are applied to all field samples with similar matrix.

VOCs: MS/MSD analyses were performed on sample B-2-0002. Percent recoveries met the recovery limits in the Program QAPP (recovery limits were provided for 5 compounds). The laboratory reported percent recoveries for all VOCs analyzed. Therefore, the RCP method recovery limits of 70-130% and RPD of ≤ 30% for soils were used to evaluate recoveries for compounds with no Program QAPP-specified recovery limits.

The recoveries for bromobenzene, n-butylbenzene, carbon disulfide, chlorobenzene, 2-chlorotoluene, 4-chlorotoluene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, trans-1,4-dichloro-2-butene, dichlorodifluoromethane, trans-1,2-dichloroethene, trans-1,3-dichloropropene, ethylbenzene, hexachlorobutadiene, 4-isopropyltoluene, naphthalene, styrene, tetrachloroethene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, and m,p-xylene were below the RCP method limits of 70-130% but > 20%. Results are non-detect for these compounds in all samples. Therefore, non-detect results for these compounds were qualified as estimated with a potential low bias (UJ) in all soil samples.

The recoveries for n-propylbenzene and sec-butylbenzene were also below the RCP method recovery limits of 70-130%. These compounds were detected in sample B-2-0507. The results for n-propylbenzene and sec-butylbenzene were qualified as estimated (J) in sample B-2-0507 and as estimated (UJ) in all other soils due to the low recovery, based on the National Functional Guidelines (NFGs). RPDs for all compounds were below 30%.

PAHs: MS/MSD analyses were performed on sample B-10-0002. MS/MSD recovery limits for two PAHs are provided in the Program QAPP. The laboratory reported percent recoveries for all PAHs analyzed. Therefore, MS/MSD recoveries for the remaining PAHs were evaluated using the RCP method limits of 40-140% and RPD ≤ 30%.

Percent recoveries for all 16 PAH compounds were below the 40-140% limits in the MS and/or MSD analysis, except for acenaphthene, which was within the Program QAPP limits of 31-137%. Twelve of the 16 compounds were detected at concentrations > 4x the spiking level in the unspiked sample. The laboratory case narrative also indicates matrix effects were observed for this sample. RPDs were all below the RCP limit of 30% for soil, except for the RPD for acenaphthene, which exceeded the Program QAPP limit of 19% (73%). Surrogate recoveries were met in the MS and MSD analyses of this sample and results of the laboratory LCS analyses for PAHs were also within limits. Therefore, based on professional judgement, no action is taken

based on the low recoveries of the matrix spiking compounds in this sample since they are most likely due to matrix effects.

MS/MSD analyses were also performed on sample B-2-0002. The percent recovery for pyrene was below the Program QAPP limits and percent recoveries for 12 other compounds were outside the Program QAPP and/or RCP method recovery limits in the MS/MSD analyses. Six of the 16 compounds were detected at concentrations > 4x the spiking level in the unspiked sample. No actions are taken for these compounds (benzo(a)anthracene, benzo(b)fluoranthene, chrysene, fluoranthene, phenanthrene, and pyrene) since exceedances are due to high concentrations in the parent sample. Percent recoveries for acenaphthylene, benzo(a)pyrene, benzo(g,h,i)perylene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene also exceeded the 40-140% RCP method limits. However, concentrations of these compounds in the parent sample were < 4x the spiking level. In general, the spiking compounds were recovered low in the MS analysis and recovered high in the MSD analysis. Therefore, professional judgement was used to qualify detected and non-detected results for acenaphthylene, benzo(a)pyrene, benzo(g,h,i)perylene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene as estimated (J/UJ) in all soil samples. Naphthalene %Rs were < 10% in the MS analysis and < the lower acceptance limit in the MSD analysis. Based on professional judgement, since the MSD recovery was > 10%, the detected results for naphthalene are qualified as estimated (J) and the non-detected results for naphthalene are qualified (UJ) as estimated and not rejected in all soil samples. Qualifications were applied to all soil samples since the other MS/MSD analysis performed for this SDG was performed on a sample with high concentrations and %Rs could not be meaningfully evaluated.

RPDs for anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were above the RCP limit of 30% for soil. The detected results for anthracene, benzo(a)pyrene, benzo(g,h,i)perylene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene are qualified as estimated (J) in all soil samples due to MS/MSD imprecision. No qualifications were required for associated nondetect results. No qualifications were required for benzo(a)anthracene, benzo(b)fluoranthene, or chrysene since the concentration in the parent sample was > 4X the spiking level.

Note that the MS/MSD analyses did not include 2-methylnaphthalene; however, the reporting of 2-methylnaphthalene included acceptable LCS/LCSD results. No action is taken.

<u>Pesticides</u>: MS/MSD analyses were performed on sample B-10-0204. MS/MSD recovery limits for 6 pesticide compounds were provided in the Program QAPP. The laboratory reported percent recovery and RPD limits for all pesticide compounds reported. Therefore, MS/MSD recoveries for the remaining pesticide compounds were evaluated using the RCP method limits of 30-150% and ≤ 30% RPD for all pesticides except chlordane and toxaphene. The percent recoveries and/or RPDs for aldrin, dieldrin, and endrin exceeded the Program QAPP limits. Results for these compounds were non-detect in all soil samples and the non-detect results are accepted unqualified since the potential bias is high.

Percent recoveries for the remaining pesticide compounds were within the 30-150% RCP method limits in the MS analysis. The %Rs were all within limits in the MSD analysis except for the %R of aldrin, which exceeded the limits (163%). As noted above, aldrin results were non-detect in all soil samples and the non-detect results are accepted unqualified since the potential bias is high. RPDs for 13 of the 16 pesticides were above the 30% limit. No action is taken for the exceeded RPD limit for non-detect results, based on the NFGs.

MS/MSD analyses were also performed on sample B-2-0002. The percent recoveries and RPDs met the Program QAPP limits for the 6 pesticide compounds with Program QAPP limits.

Percent recoveries for the remaining pesticide compounds were within the 30-150% limits except for beta-BHC and endrin ketone. The %Rs for beta-BHC exceeded the 30-150% limits in the MS and MSD analyses (206% and 311%, respectively). The %R for endrin ketone exceeded limits in the MSD analysis (179%). RPDs were all below the limit of 30% except for beta-BHC, which had an RPD of 44%. Results for beta-BHC and endrin ketone were non-detect in all soil samples. Non-detect results in the samples are accepted without qualification since the potential bias is high. No action is taken for the exceeded RPD limit for beta-BHC, based on the NFGs.

Note that the MS/MSD analyses did not include hexachlorobenzene; however, the reporting of hexachlorobenzene included acceptable LCS/LCSD results. No action is taken.

PCBs: MS/MSD analyses were performed on sample B-2-0002. The percent recoveries and RPDs met the Program QAPP limits for Aroclors 1016 and 1260 (29-135% and RPD ≤ 15% [Aroclor 1016] and ≤ 20% [Aroclor 1260]).

It is noted that the percent recovery and RPDs for Aroclors 1016 and 1260 also met the RCP method recovery and RPD limits of 140-140% and 30%, respectively. No action is required.

Metals: MS/MSD analyses were performed on sample B-2-0002. The Program QAPP limits (75-125%) are consistent with the RCP method limits of 75-125%. The QAPP RPD limits (20%) were used to assess precision.

Percent recoveries for lead exceeded the 75-125% limits in the MS and MSD analyses (231% and 45.7%, respectively). Lead was detected in the unspiked sample at > 4x the spiking level and therefore, no action is required for lead recovery. The RPD (29%) is above the Program QAPP limit of 20%. No qualifications were required for lead RPD since the unspiked sample concentration is > 4x the spiking level

Antimony and zinc recoveries exceeded limits in the MS analysis and antimony, copper, and zinc recoveries exceeded limits in the MSD analysis. Detected results for these analytes are < 4x spiking level in the unspiked sample. Recoveries for antimony, copper and zinc are further discussed below.

The %R for antimony was below the limits of 75-125% in the MS and MSD analyses (71% and 67%, respectively). Post-digestion spike analyses were performed for antimony with acceptable recoveries. Therefore, the detected results for antimony were qualified as estimated (J) and the non-detect results for antimony were qualified as estimated (UJ), based on the NFGs. The RPD (3.8%) meets the QAPP limit of 20%.

The %R for copper exceeded the limits of 75-125% in the MSD analysis (145%). A post-digestion spike analysis was not performed for copper. Copper was detected in all soil samples. Therefore, detected copper results were qualified as estimated with a potential high bias (J+) in all soil samples, based on the NFGs. The RPD (13%) meets the QAPP limit of 20%.

The %R for zinc was low in the MS analysis (69%) and high in the MSD analysis (167%). A post-digest spike analysis was not performed for zinc. The MS/MSD RPD (29%) was above QAPP limits. Zinc was detected in all soil samples. Therefore, professional judgment was used to qualify detected zinc results as estimated with an indeterminate bias (J). Note that detected zinc results

were also qualified as estimated (J) due to field duplicate imprecision and a serial dilution exceedance.

MS/MSD analyses for mercury were performed on sample B-2-0002. Percent recoveries for mercury met the 70-130% limits and no action is required. RPD limit was also met (0%). No action required.

ETPH: MS/MSD analyses were performed on sample B-2-0002. Therefore, the RCP method limits of 50-150% and 30% RPD were used for data validation purposes.

Percent recoveries for DRO (C9-C36) were below the limits of 50-140% in both the MS and MSD analyses. The DRO (C9-C36) concentration in the unspiked sample was nearly 4x the spiking level. Surrogate recoveries were acceptable for both the MS and MSD analyses and the laboratory's LCS analysis for DRO (C9-C36) were within limits. Therefore, professional judgement was used to take no action since the low recoveries were likely due to the high concentrations in the unspiked sample.

9. Laboratory Duplicates (metals only)

A laboratory duplicate was not analyzed by the laboratory. MS/MSD analyses were used to evaluate precision.

10. Serial Dilution (metals only)

A serial dilution analysis was performed for metals on sample B-2-0002. The Program QAPP limit is %D < 10% for analytes detected at > 50x MDL.

As shown on the laboratory's Serial Dilution Summary Form for this SDG, all %D values were < 10% except for cadmium (11.1%), selenium (100%), thallium (100%), and zinc (11.1%). As indicated on the Serial Dilution Summary Form, initial concentrations of cadmium, selenium, and thallium are < 50x MDL; therefore, no actions are taken for these analytes. However, the Summary Form reports that the serial dilution results for zinc indicate a potential matrix interference for this analyte. Zinc was detected in all soil samples and therefore, the positive zinc results are qualified as estimated (J) in all soil samples. No serial dilution was analyzed for mercury.

11. Field Duplicate Precision

The field duplicate pair B-8-0002 / FD-01-20210809 is associated with the soil samples of this SDG. Acceptable field duplicate precision is an RPD of ≤ 50% for results > 5x RL and an absolute difference < 4x RL for results < 5x RL, based on the Region 1 EPA New England Environmental Data Review Supplement (September 2020).

Based on Region 1 guidelines, qualifications are applied to all field samples with similar matrix.

VOCs: Results for both samples of the field duplicate pair were non-detect for all VOCs. No action required.

PAHs: The RPDs for acenaphthene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, naphthalene, and pyrene exceed the 50% RPD limit for results > 5x RL. Positive and non-detect results for these compounds are

qualified as estimated (J/UJ) in all soil samples due to field duplicate imprecision. Note that the final qualification for naphthalene in the soil samples is J/R due to low MS/MSD recoveries. The absolute difference values for results < 5x RL meet the criterion of < 4x RL.

Pesticides: The RPDs for 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT exceed the 50% RPD limit for results > 5x RL. Positive and non-detect results for these compounds are qualified as estimated (J/UJ) in all soil samples due to field duplicate imprecision. Results for all other pesticide compounds were non-detect.

PCBs: Precision criteria were met for all Aroclors. No action required.

Metals: RPDs met the 50% RPD limit for results > 5x RL for metals and mercury except for zinc, where the RPD exceeded 50%. Positive results for zinc were estimated (J) in all soil samples due to field duplicate imprecision. There were no non-detected results for zinc. All other metal analytes and mercury met field duplicate precision criteria.

ETPH: Precision criteria were met for DRO (C9-C36). No action required.

12. Internal Standards

Not assessed for S2AVM data review.

13. Dual Column Precision

Dual column precision criteria are not included in the Program QAPP. The dual column percent difference (%D) limit for the CT RCP methods for pesticides and PCBs is 40%.

The %D criterion is not applicable for the VOC, PAH, Metals, and CT ETPH analyses.

Pesticides: The %Ds for detected 4,4'-DDD results in samples B-8-0002, MW-6-0305, MW-1R-0406, B-2-0002, and B-3-0305 are > 40%. Detected results for 4,4'-DDD in these samples are qualified as estimated (J) due to dual column imprecision.

The %Ds for the detected 4,4'-DDE result in sample MW-6-0002 and the detected 4,4'-DDT result in sample B-9-0002 are also > 40%. Therefore, the 4,4'-DDE result in sample MW-6-0002 and the 4,4'-DDT result in sample B-9-0002 are qualified as estimated (J) due to dual column imprecision.

The %Ds for the detected hexachlorobenzene results in samples B-10-0002, B-7-0002, B-8-0507, MW-4-0002, B-3-0002 are > 40%. Therefore, the detected results for hexachlorobenzene in these samples are qualified as estimated (J) due to dual column imprecision.

PCBs: The RCP method dual column precision limit of 40% is met for detected Arolcor results in the samples and no action is required.

14. Performance Evaluation Samples

Performance Evaluation (PE) samples were not included in this SDG.

15. Reporting Limits

Non-detect results for VOCs, PAHs, Pesticides, PCBs, Metals, and ETPH meet the Project Action Levels (PALs) for the project (QAPPA Table 3) except for thallium, reported in sample MW-4-0002. The QAPPA Table 3 lists a PAL for thallium of 5.4 mg/kg. The reporting limit for this analyte in sample MW-4-0002 was 5.7 mg/kg due to a dilution factor of 5 required for analysis. No action taken.

16. Other

Percent solids within Reg 1/NE criteria (> 30%). No action required.

Overall bias is considered indeterminate when cumulative nonconformances do not show a consistent bias or in cases of the presence of conflicting high and low biases.

Field Duplicate Evaluation

SDG: JD29693 VOCs

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/lkg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**B-8-0002**		**FD-01-20210809**				
	JD29693-07		**JD29693-08**				
1,1,1,2-Tetrachloroethane	0.0013	U	0.0015	U	14.29		OK both ND
1,1,1-Trichloroethane	0.0013	U	0.0015	U	14.29		OK both ND
1,1,2,2-Tetrachloroethane	0.0013	U	0.0015	U	14.29		OK both ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0032	U	0.0037	U	14.49		OK both ND
1,1,2-Trichloroethane	0.0013	U	0.0015	U	14.29		OK both ND
1,1-Dichloroethane	0.00064	U	0.00073	U	13.14		OK both ND
1,1-Dichloroethene	0.00064	U	0.00073	U	13.14		OK both ND
1,1-Dichloropropene	0.0013	U	0.0015	U	14.29		OK both ND
1,2,3-Trichlorobenzene	0.0032	U	0.0037	U	14.49		OK both ND
1,2,3-Trichloropropane	0.0032	U	0.0037	U	14.49		OK both ND
1,2,4-Trichlorobenzene	0.0032	U	0.0037	U	14.49		OK both ND
1,2,4-Trimethylbenzene	0.0013	U	0.0015	U	14.29		OK both ND
1,2-Dibromo-3-chloropropane	0.0013	U	0.0015	U	14.29		OK both ND
1,2-Dibromoethane	0.00064	U	0.00073	U	13.14		OK both ND
1,2-Dichlorobenzene	0.00064	U	0.00073	U	13.14		OK both ND
1,2-Dichloroethane	0.00064	U	0.00073	U	13.14		OK both ND
1,2-Dichloropropane	0.0013	U	0.0015	U	14.29		OK both ND
1,3,5-Trimethylbenzene	0.0013	U	0.0015	U	14.29		OK both ND
1,3-Dichlorobenzene	0.00064	U	0.00073	U	13.14		OK both ND
1,3-Dichloropropane	0.0013	U	0.0015	U	14.29		OK both ND
1,4-Dichlorobenzene	0.00064	U	0.00073	U	13.14		OK both ND
2,2-Dichloropropane	0.0013	U	0.0015	U	14.29		OK both ND
2-Butanone	0.0064	U	0.0073	U	13.14		OK both ND
2-Chlorotoluene	0.0013	U	0.0015	U	14.29		OK both ND
2-Hexanone	0.0032	U	0.0037	U	14.49		OK both ND
4-Chlorotoluene	0.0013	U	0.0015	U	14.29		OK both ND
4-Isopropyltoluene	0.0013	U	0.0015	U	14.29		OK both ND
4-Methyl-2-pentanone	0.0032	U	0.0037	U	14.49		OK both ND
Acetone	0.0064	U	0.0073	U	13.14		OK both ND
Acrylonitrile	0.0064	U	0.0073	U	13.14		OK both ND
Benzene	0.00032	U	0.00037	U	14.49		OK both ND
Bromobenzene	0.0032	U	0.0037	U	14.49		OK both ND
Bromodichloromethane	0.0013	U	0.0015	U	14.29		OK both ND
Bromoform	0.0032	U	0.0037	U	14.49		OK both ND
Bromomethane	0.0032	U	0.0037	U	14.49		OK both ND
Carbon disulfide	0.0013	U	0.0015	U	14.29		OK both ND
Carbon tetrachloride	0.0013	U	0.0015	U	14.29		OK both ND
Chlorobenzene	0.0013	U	0.0015	U	14.29		OK both ND
Chloroethane	0.0032	U	0.0037	U	14.49		OK both ND
Chloroform	0.0013	U	0.0015	U	14.29		OK both ND
Chloromethane	0.0032	U	0.0037	U	14.49		OK both ND
cis-1,2-Dichloroethene	0.00064	U	0.00073	U	13.14		OK both ND
cis-1,3-Dichloropropene	0.0013	U	0.0015	U	14.29		OK both ND
Dibromochloromethane	0.0013	U	0.0015	U	14.29		OK both ND
Dibromomethane	0.0032	U	0.0037	U	14.49		OK both ND
Dichlorodifluoromethane	0.0032	U	0.0037	U	14.49		OK both ND
Ethylbenzene	0.00064	U	0.00073	U	13.14		OK both ND
Hexachlorobutadiene	0.0032	U	0.0037	U	14.49		OK both ND
Isopropylbenzene	0.0013	U	0.0015	U	14.29		OK both ND
m,p-Xylene	0.00064	U	0.00073	U	13.14		OK both ND
Methyl tert-butyl ether	0.00064	U	0.00073	U	13.14		OK both ND
Methylene chloride	0.0032	U	0.0037	U	14.49		OK both ND
Naphthalene	0.0032	U	0.0037	U	14.49		OK both ND
n-Butylbenzene	0.0013	U	0.0015	U	14.29		OK both ND
n-Propylbenzene	0.0013	U	0.0015	U	14.29		OK both ND
o-Xylene	0.00064	U	0.00073	U	13.14		OK both ND
sec-Butylbenzene	0.0013	U	0.0015	U	14.29		OK both ND
Styrene	0.0013	U	0.0015	U	14.29		OK both ND
tert-Butylbenzene	0.0013	U	0.0015	U	14.29		OK both ND
Tetrachloroethene	0.0013	U	0.0015	U	14.29		OK both ND
Tetrahydrofuran	0.0064	U	0.0073	U	13.14		OK both ND
Toluene	0.00064	U	0.00073	U	13.14		OK both ND
trans-1,2-Dichloroethene	0.00064	U	0.00073	U	13.14		OK both ND
trans-1,3-Dichloropropene	0.0013	U	0.0015	U	14.29		OK both ND
trans-1,4-Dichlorobutene	0.0032	U	0.0037	U	14.49		OK both ND
Trichloroethene	0.00064	U	0.00073	U	13.14		OK both ND
Trichlorofluoromethane	0.0032	U	0.0037	U	14.49		OK both ND
Vinyl chloride	0.0013	U	0.0015	U	14.29		OK both ND

Field Duplicate Evaluation

SDG: JD29693 PAH SIM

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/lkg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**B-8-0002**		**FD-01-20210809**				
	JD29693-07		**JD29693-08**				
2-Methylnaphthalene	0.0141		0.0295		70.64	0.0154	OK - Abs Diff < 4x RL
Acenaphthene	0.0259		0.0459		55.71		**RPD > 50%; J / UJ**
Acenaphthylene	0.0597		0.0953		45.94		OK RPD < 50%
Anthracene	0.106		0.184		53.79		**RPD > 50%; J / UJ**
Benzo(a)anthracene	0.444		1.05		81.12		**RPD > 50%; J / UJ**
Benzo(a)pyrene	0.428		0.969		77.45		**RPD > 50%; J / UJ**
Benzo(b)fluoranthene	0.593		1.33		76.65		**RPD > 50%; J / UJ**
Benzo(g,h,i)perylene	0.314		0.661		71.18		**RPD > 50%; J / UJ**
Benzo(k)fluoranthene	0.152		0.509		108.02		**RPD > 50%; J / UJ**
Chrysene	0.418		0.957		78.40		**RPD > 50%; J / UJ**
Dibenz(a,h)anthracene	0.0725		0.147		67.88		**RPD > 50%; J / UJ**
Fluoranthene	0.788		1.72		74.32		**RPD > 50%; J / UJ**
Fluorene	0.0272		0.0436		46.33		OK RPD < 50%
Indeno(1,2,3-cd)pyrene	0.298		0.656		75.05		**RPD > 50%; J / UJ**
Naphthalene	0.0422		0.139		106.84		**RPD > 50%; J / UJ**
Phenanthrene	0.475		0.765		46.77		OK RPD < 50%
Pyrene	0.799		1.72		73.12		**RPD > 50%; J / UJ**

Field Duplicate Evaluation

SDG: JD29693 PEST/PCB

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/lkg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**B-8-0002**		**FD-01-20210809**				
	JD29693-07		**JD29693-08**				
4,4'-DDD	0.0116		0.0047		-84.66		**RPD > 50%; J / UJ**
4,4'-DDE	0.0356		0.0134		-90.61		**RPD > 50%; J / UJ**
4,4'-DDT	0.208		0.0609		-109.41		**RPD > 50%; J / UJ**
Alachlor	0.008	U	0.0079	U	-1.26		OK - both ND
Aldrin	0.0008	U	0.00079	U	-1.26		OK - both ND
alpha-BHC	0.0008	U	0.00079	U	-1.26		OK - both ND
Aroclor 1016	0.06	U	0.06	U	0.00		OK - both ND
Aroclor 1221	0.06	U	0.06	U	0.00		OK - both ND
Aroclor 1232	0.06	U	0.06	U	0.00		OK - both ND
Aroclor 1242	0.06	U	0.06	U	0.00		OK - both ND
Aroclor 1248	0.06	U	0.06	U	0.00		OK - both ND
Aroclor 1254	0.233		0.413		55.73	0.18	OK - abs diff < 4x RL
Aroclor 1260	0.06	U	0.06	U	0.00		OK - both ND
Aroclor 1262	0.06	U	0.06	U	0.00		OK - both ND
Aroclor 1268	0.06	U	0.06	U	0.00		OK - both ND
Aroclor, Total	0.233		0.413		55.73		OK - abs diff < 4x RL
beta-BHC	0.0008	U	0.00079	U	-1.26		OK - both ND
Chlordane	0.04	U	0.04	U	0.00		OK - both ND
delta-BHC	0.0008	U	0.00079	U	-1.26		OK - both ND
Dieldrin	0.0008	U	0.00079	U	-1.26		OK - both ND
Endosulfan I	0.0008	U	0.00079	U	-1.26		OK - both ND
Endosulfan II	0.0008	U	0.00079	U	-1.26		OK - both ND
Endosulfan Sulfate	0.0008	U	0.00079	U	-1.26		OK - both ND
Endrin	0.0008	U	0.00079	U	-1.26		OK - both ND
Endrin Aldehyde	0.0008	U	0.00079	U	-1.26		OK - both ND
Endrin Ketone	0.0008	U	0.00079	U	-1.26		OK - both ND
gamma-BHC (Lindane)	0.0008	U	0.00079	U	-1.26		OK - both ND
Heptachlor	0.0008	U	0.00079	U	-1.26		OK - both ND
Heptachlor Epoxide	0.0008	U	0.00079	U	-1.26		OK - both ND
Hexachlorobenzene	0.0008	U	0.0008	U	0.00		OK - both ND
Methoxychlor	0.0016	U	0.0016	U	0.00		OK - both ND
Toxaphene	0.02	U	0.02	U	0.00		OK - both ND

Field Duplicate Evaluation

SDG: JD29693 METALS

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/lkg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**B-8-0002**		**FD-01-20210809**				
	JD29693-07		**JD29693-08**				
Antimony	2.5	U	2.4	U	-4.08		OK - both ND
Arsenic	6.3		6.7		6.15	0.40	OK - abs diff < 4x RL
Barium	98.2		164		50.19	65.80	OK - abs diff < 4x RL
Beryllium	0.62		0.6		-3.28	-0.02	OK - abs diff < 4x RL
Cadmium	0.95		1.7		56.60	0.75	OK - abs diff < 4x RL
Chromium	14.7		19.8		29.57		OK - RPD < 50%
Copper	30.3		42.8		34.20		OK - RPD < 50%
Lead	210		311		38.77		OK - RPD < 50%
Mercury	0.24		0.14		-52.63	-0.10	OK - RPD < 50%
Nickel	9.4		11.7		21.80	2.3	OK - RPD < 50%
Selenium	2.5	U	2.4	U	-4.08		OK - both ND
Silver	0.71		0.89		22.50	0.18	OK - abs diff < 4x RL
Thallium	1.3	U	1.2	U	-8.00		OK - both ND
Vanadium	21.8		27.7		23.84	5.90	OK - abs diff < 4x RL
Zinc	154		263		52.28		**RPD > 50%; J / UJ**

Field Duplicate Evaluation

SDG: JD29693 ETPH

Analyte	Original Result mg/kg	Qual	Duplicate Result mg/lkg	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**B-8-0002**		**FD-01-20210809**				
	JD29693-07		**JD29693-08**				
Diesel Range Organics (C9-C36)	177		178		0.56		OK - RPD < 50%

SO
SLL

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-02-FORM-Standard COC

FED-EX Tracking #:
Bottle Order Control #: JD29693
SGS Quote #: TF-68321-148
SGS Job #: NEIMAL89598

Client / Reporting Information

Company Name: Nobis
Street Address: 585 Middlesex St
City / State / Zip: Lowell MA 01851
Project Contact / E-mail: Jeff Brunelle JBrunelle@nobisgroup.com
Phone #: 603-508-0084
Sampler(s) Name(s) / Phone #: A Epstein

Project Information

Project Name: 43 Hempstead St New London CT
Street: 43 Hempstead
City / State: New London CT
Project #: 93203.15
Client Purchase Order #: 93203.15/208
Project Manager: Jeff Brunelle

Billing Information (If different from Report to)

Company Name: Same
Street Address:
City / State / Zip:
Attention:

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	VOCs	ETPH	PAH SIM	Pesticides	PCBs Soxhlet	RCP metals + Hg	LAB USE ONLY
1	B-10-0002		8/9/21	915	AE	G	S	5					2	2	1		X	X	X	X	X	X	P51
2	B-10-0304			920													X	X	X	X	X	X	1414
3	B-7-0002			945													X	X	X	X	X	X	4012
4	B-7-0507			950													X	X	X	X	X	X	4013
5	B-9-0002			1005													X	X	X	X	X	X	D45
6	B-9-0305			1010													X	X	X	X	X	X	
7	B-8-0002			1026													X	X	X	X	X	X	
8	FD-01			1600													X	X	X	X	X	X	
9	B-8-0507			1025													X	X	X	X	X	X	
10	MW-6-0002			1210													X	X	X	X	X	X	
11	MW-6-0305			1215													X	X	X	X	X	X	
12	MW-5-0002			1330													X	X	X	X	X	X	

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [x] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special instructions

Hold remaining soil for potential SPLP ETPH, SPLP PAH, SPLP metals

SGS-ACCUTEST MARLBOR 8/10

http://www.sgs.com/en/terms-and-condition

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by	Date / Time	Received By	Relinquished By	Date / Time	Received By
1 MCS	8/10/21 14:55	1 [illegible]	2 [illegible]	8/10/21 15:00	2 Fed Ex
3 Fedex	8-11-21 8:03	3 [illegible]	4		4
5		5			

Custody Seal # 17403, 15404, 15 905 — Intact / Not Intact — Preserved where applicable — Absent — Therm. ID: — On Ice — Cooler Temp. °C 3.4°C

JD29693: Chain of Custody
Page 1 of 3

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-02-FORM-Standard COC

FED-EX Tracking #:
Bottle Order Control #: JD29693
SGS Quote #:
SGS Job #:

Client / Reporting Information

Company Name: NoBis
Street Address: 565 Middlesex St
City: Lowell State: MA Zip: 01851
Project Contact: Jeff Brunelle E-mail: JBrunelle@nobis-group.com
Phone #: 603-505-0084
Sampler(s) Name(s): AEpstein Phone #:

Project Information

Project Name: 43 Hempstead St New London CT
Street: 43 Hempstead
City: New London State: CT
Project #: 93203.15
Client Purchase Order #: 93203.15 / 206
Project Manager: Jeff Brunelle

Billing Information (If different from Report to)
Company Name: Same
Street Address:
City: State: Zip:
Attention:

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	VOCs	ETPH	PAH SIM	Pesticides	PCB Soxhlet	RCP Metals + Hg						LAB USE ONLY
13	MW-05-0810		8/9/21	1340	AE	G	S	5					2	2	1		X	X	X	X	X	X						
14	TB-01			1605				3						2	1		X											
15	MW-4-0002		8/10/21	915				5					2	2	1		X	X	X	X	X	X						
16	MW-4-0204			925													X	X	X	X	X	X						
17	MW-1R-0002			1100													X	X	X	X	X	X						
18	MW-1R-0406			1105													X	X	X	X	X	X						
19	B-2-0002			1305				15					6	6	3		X	X	X	X	X	X						
20	B-2-0507			1255				5					2	2	1		X	X	X	X	X	X						
21	B-3-0002			1325				5									X	X	X	X	X	X						
22	B-3-0305			1330				5									X	X	X	X	X	X						

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink. * Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Hold remaining soil for potential SPLP ETPH, SPLP PAH, SPLP Metals
B-2-0002 MS/MSD

SGS-ACCUTEST MARLBOR 8/10

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	8/10/21	2	2	8/10/21 1900	2
Relinquished by: 3	Date / Time: 8/11/21	Received By: 3	Relinquished By: 4	Date / Time:	Received By: 4
Relinquished by: 5	Date / Time:	Received By: 5	Custody Seal #	[ ] Intact [ ] Not intact	Preserved where applicable [ ] Absent

On Ice: Cooler Temp. °C: Therm. ID:

5.1 5

November 12, 2021
Nobis File No. 93203

Mr. James Byrne
USEPA – Region 1
Land, Chemicals, and Redevelopment Division
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Re: USEPA Contract No. EP-S1-17-01
USEPA Task Order No. 68HE0119F0009
Targeted Brownfields Assessment (TBA)
43 Hempstead Street Site
New London, Connecticut
Sample Delivery Group (SDG) No. JD29693R
SGS North America, Inc., Dayton, NJ

Tier 1 Stage 2A Organic and Inorganic Data Review

Synthetic Leaching Procedure (SPLP) Polycyclic Aromatic Hydrocarbons (PAHs by 8270E-SIM), SPLP Metals (Reasonable Confidence Protocol [RCP]-15 Metals) by 6010D/7470A), and/or SPLP Extractable Total Petroleum Hydrocarbons (ETPH by CT ETPH)

12/SPLP Leachate Samples: B-10-0002, B-10-0204, B-7-0002, B-8-0002, FD-01, MW-6-0305, MW-4-0002, MW-4-0204, MW-1R-0002, B-2-0002, B-3-0002, B-3-0305

Dear Mr. Byrne:

Nobis Group (Nobis), under a USEPA contract as a subcontractor to KGSNE JV, LLC, performed a Tier 1 Stage 2A manual data review (S2AVM) on the organic and inorganic analytical data for the samples listed above. The samples were collected by Nobis at the 43 Hempstead Street Site located in New London, Connecticut on August 9 and 10, 2021. The samples were analyzed for SPLP PAHs by EPA Method 1312/8270E-SIM, SPLP RCP-15 Metals by EPA Methods 1312/6010D/7470A, and ETPH by EPA Method 1312/CT ETPH by SGS North America, Inc. in Dayton, NJ.

The Tier 1 Stage 2A manual data review was performed in accordance with the Region 1 - EPA New England Environmental Data Review Supplement for Region 1 Data Review Elements and Superfund Specific Guidance/Procedures (September 2020); USEPA's National Functional Guidelines for Organic Superfund Methods Data Review (January 2017); USEPA's National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017); the Program Quality Assurance Project Plan (Program QAPP) (RFA# 17078), dated May 17, 2017, and the Quality Assurance Project Plan Addendum (QAPPA) (July 2021) for the 43 Hempstead Street Site, which appends the May 2017 Program QAPP.

The data were evaluated based on the following parameters:

* • Overall Evaluation of Data and Potential Usability Issues
* • Data Completeness
  • Preservation and Technical Holding Times
* • Blanks
* • Surrogates (organic analyses only)

Nobis Group®
585 Middlesex Street
Lowell, MA 01851
T (978) 683-0891

NA	•	Internal Standards
	•	Matrix Spike Analysis
*	•	Laboratory Duplicates
*	•	Laboratory Control Samples (LCS)
NA	•	Field Duplicates
*	•	ICP Serial Dilutions (metals only)
NA	•	Performance Evaluation (PE) Samples
*	•	Target Analyte Identification
*	•	Reported Quantitation Limits

* All criteria were met for this parameter or did not require qualification.
NA – Not applicable.

Overall Evaluation of Data and Potential Usability Issues

The site sampling objectives are:

- Characterize in-situ soil for the presence of possible site-related contamination.
- Evaluate groundwater elevation.
- Evaluate presence/absence of groundwater contamination related to the site.

The nondetect PAH and ETPH results were rejected due to holding time exceedances. These results are not usable for project objectives. All other data meet the project quality criteria and can be used without restriction except as summarized below. The attachments provide details and supporting documentation.

SPLP PAHs:
Results were rejected or qualified due to holding time exceedances. Results were qualified due to MS/MSD recovery exceedances.

SPLP Metals:
Qualification of the data was not required.

SPLP CT ETPH:
Results were rejected or qualified due to holding time exceedances.

Please contact Linda Terzis at lterzis@nobis-group.com should you have any questions or comments regarding this information.

Sincerely,

NOBIS GROUP®

Linda Terzis
Data Validator

Kristin Rutherford
Data Validator

Tables: Data Summary Tables – Tier 1 Stage 2A (S2AVM) Validated Data
Data Qualification Actions Table

Attachments: Data Review Checklist
Support Documentation
COC

cc: Edward King (KGSNE)
Jeffrey Brunelle (Nobis Group)

DATA SUMMARY TABLE

Analysis		SPLP Metals in Soil				
Lab Sample ID		JD29693-15R	JD29693-16R	JD29693-19R	JD29693-2R	JD29693-3R
Field Sample ID		MW-4-0002	MW-4-0204	B-2-0002	B-10-0204	B-7-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/10/21	08/10/21	08/10/21	08/09/21	08/09/21
Antimony	ug/L	100 U	100 U	100 U	100 U	100 U
Arsenic	ug/L	100 U	100 U	100 U	100 U	100 U
Barium	ug/L	200 U	200 U	200 U	200 U	200 U
Beryllium	ug/L	2 U	2 U	2 U	2 U	2 U
Cadmium	ug/L	4 U	4 U	4 U	4 U	4 U
Chromium	ug/L	10 U	10 U	10 U	10 U	10 U
Copper	ug/L	18.1	20.6	10.3	11.9	15.5
Lead	ug/L	53.8	98.4	38.8	17.3	109
Mercury	mg/L	0.0002 U	0.00062	0.0002 U	0.0002 U	0.0002
Nickel	ug/L	10 U	10 U	10 U	10 U	10 U
Selenium	ug/L	100 U	100 U	100 U	100 U	100 U
Silver	ug/L	10 U	10 U	10 U	10 U	10 U
Thallium	ug/L	100 U	100 U	100 U	100 U	100 U
Vanadium	ug/L	50 U	50 U	50 U	207	50 U
Zinc	ug/L	20 U	102	20 U	80 U	80 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		SPLP Other in Soil				
Lab Sample ID		JD29693-11R	JD29693-15R	JD29693-16R	JD29693-17R	JD29693-19R
Field Sample ID		MW-6-0305	MW-4-0002	MW-4-0204	MW-1R-0002	B-2-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/10/21	08/10/21	08/10/21	08/10/21
Dry Weight, SPLP Leachate	KG	0.08596	0.09024	0.07019	0.09272	0.08544
pH, SPLP Leachate	S.U.	7.95	8.87	8.17	8.9	9.34
Volume, SPLP Leachate	L	2.011	2.012	2.005	2.018	2.015
Weight, SPLP Leachate	KG	0.1005	0.1006	0.1003	0.1009	0.1008

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		SPLP Other in Soil				
Lab Sample ID		JD29693-1R	JD29693-21R	JD29693-22R	JD29693-2R	JD29693-3R
Field Sample ID		B-10-0002	B-3-0002	B-3-0305	B-10-0204	B-7-0002
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/10/21	08/10/21	08/09/21	08/09/21
Dry Weight, SPLP Leachate	KG	0.08652	0.09141	0.08761	0.0919	0.08933
pH, SPLP Leachate	S.U.	8.6	8.67	7.76	7.25	7.69
Volume, SPLP Leachate	L	2	2.002	2.002	2.007	2.012
Weight, SPLP Leachate	KG	0.1	0.1001	0.1001	0.1003	0.1006

DATA SUMMARY TABLE

Analysis		SPLP Other in Soil	
Lab Sample ID		JD29693-7R	JD29693-8R
Field Sample ID		B-8-0002	FD-01-20210809
Sample Type		N	FD
Parent Sample ID			B-8-0002
Sample Date	**Units**	08/09/21	08/09/21
Dry Weight, SPLP Leachate	KG	0.08123	0.08252
pH, SPLP Leachate	S.U.	9.2	9.03
Volume, SPLP Leachate	L	2.016	2.013
Weight, SPLP Leachate	KG	0.1008	0.1006

DATA SUMMARY TABLE

Analysis		SPLP Petroleum Hydrocarbons in Soil				
Lab Sample ID		JD29693-11R	JD29693-19R	JD29693-1R	JD29693-21R	JD29693-22R
Field Sample ID		MW-6-0305	B-2-0002	B-10-0002	B-3-0002	B-3-0305
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/10/21	08/09/21	08/10/21	08/10/21
Diesel Range Organics (C9-C36)	mg/L	0.098 J-	R	R	R	R

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		SPLP Petroleum Hydrocarbons in Soil
Lab Sample ID		JD29693-7R
Field Sample ID		B-8-0002
Sample Type		N
Parent Sample ID		
Sample Date	**Units**	08/09/21
Diesel Range Organics (C9-C36)	mg/L	0.137 J-

DATA SUMMARY TABLE

Analysis		SPLP Semivolatiles in Soil				
Lab Sample ID		JD29693-11R	JD29693-15R	JD29693-17R	JD29693-21R	JD29693-22R
Field Sample ID		MW-6-0305	MW-4-0002	MW-1R-0002	B-3-0002	B-3-0305
Sample Type		N	N	N	N	N
Parent Sample ID						
Sample Date	**Units**	08/09/21	08/10/21	08/10/21	08/10/21	08/10/21
2-Methylnaphthalene	mg/L	0.000484 J-	0.00041 J-	0.00264 J-	R	R
Acenaphthene	mg/L	0.00143 J-	0.00175 J-	0.00134 J-	R	R
Acenaphthylene	mg/L	0.000916 J-	0.00184 J-	0.000497 J-	R	R
Anthracene	mg/L	0.000764 J-	0.000878 J-	0.000193 J-	R	R
Benzo(a)anthracene	mg/L	0.000241 J-	0.0000735 J-	R	R	R
Benzo(a)pyrene	mg/L	0.000119 J-	R	R	R	R
Benzo(b)fluoranthene	mg/L	0.000189 J-	R	R	R	R
Benzo(g,h,i)perylene	mg/L	R	R	R	R	R
Benzo(k)fluoranthene	mg/L	R	R	R	R	R
Chrysene	mg/L	0.000215 J-	R	R	R	R
Dibenz(a,h)anthracene	mg/L	R	R	R	R	R
Fluoranthene	mg/L	0.00192 J-	0.00097 J-	0.000224 J-	R	R
Fluorene	mg/L	0.00152 J-	0.00251 J-	0.00163 J-	R	R
Indeno(1,2,3-cd)pyrene	mg/L	R	R	R	R	R
Naphthalene	mg/L	0.000337 J-	0.000431 J-	0.000604 J-	R	R
Phenanthrene	mg/L	0.00284 J-	0.0041 J-	0.0018 J-	0.0000721 J-	0.000247 J-
Pyrene	mg/L	0.00163 J-	0.000719 J-	0.000176 J-	R	R

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		SPLP Semivolatiles in Soil
Lab Sample ID		JD29693-8R
Field Sample ID		FD-01-20210809
Sample Type		FD
Parent Sample ID		B-8-0002
Sample Date	**Units**	08/09/21
2-Methylnaphthalene	mg/L	0.000423 J-
Acenaphthene	mg/L	0.000442 J-
Acenaphthylene	mg/L	0.000132 J-
Anthracene	mg/L	R
Benzo(a)anthracene	mg/L	R
Benzo(a)pyrene	mg/L	R
Benzo(b)fluoranthene	mg/L	R
Benzo(g,h,i)perylene	mg/L	R
Benzo(k)fluoranthene	mg/L	R
Chrysene	mg/L	R
Dibenz(a,h)anthracene	mg/L	R
Fluoranthene	mg/L	R
Fluorene	mg/L	0.000325 J-
Indeno(1,2,3-cd)pyrene	mg/L	R
Naphthalene	mg/L	0.000247 J-
Phenanthrene	mg/L	0.000461 J-
Pyrene	mg/L	R

Data Review Qualification Actions
Case: 43 Hempstead Street
SDG: JD29693R

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
SPLP PAHs - SIM					
	All PAHs	All SPLP soils	Holding time	J-/R	
	Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene	FD-01, MW-6-0305, MW-4-0002, MW-1R-0002, B-3-0002, B-3-0305	MS/MSD recovery (low)	J-/UJ; final qual J-/R due to exceeded HT.	
SPLP RCP-15 Metals					
	Qualification of the data not required.				
SPLP ETPH					
	ETPH	All SPLP soils	Holding time	J-/R	

Tier 1/Stage 2A Data Review Checklist

Project: **43 Hempstead Street, New London, Connecticut**
Targeted Brownfields Assessment (TBA)
Project #: **93203.15**
Case#: **NA**
Date: **10/06/2021**
Methods: **Synthetic Precipitation Leaching Procedure (SPLP) Polycyclic Aromatic Hydrocarbons (PAHs) by Selected Ion Monitoring (SIM) (1312 / 8270E-SIM)**
SPLP Metals (Reasonable Confidence Protocol [RCP]-15 Metals) (1312 / 6010D / 7470A)
SPLP Extractable Total Petroleum Hydrocarbon (1312 / CT ETPH)

Laboratory: **SGS North America, Inc., Dayton, NJ**
SDG: **JD29693R**
Reviewer: **Linda Terzis**

1. **Case Narrative and Data Package Completeness (COC and Analyte List Review)**
Twenty-one (21) soil samples were listed on the COC for SDG JD29693R, including one field duplicate sample. A trip blank was also included on the COC. Twelve of the soil samples were subsequently selected for SPLP analysis for PAHs-SIM, RCP-15 metals, and/or Connecticut (CT) ETPH. All 12 soil samples were analyzed for additional parameters (weight, dry weight, pH, and volume) for reporting of SPLP ratios for extractables and metals. The 12 soil samples for SPLP analyses noted above make up this SDG (JD29693R). The 12 soil samples were collected on 08/09/2021 and 08/10/2021. The samples were received at the lab on 08/10/2021 at 3.4C.

Sample ID	Lab ID	Analyses
B-10-0002	JD29693-1R	SPLP ETPH
B-10-0204	JD29693-2R	SPLP RCP-15 Metals
B-7-0002	JD29693-3R	SPLP RCP-15 Metals
B-8-0002	JD29693-7R	SPLP ETPH
FD-01	JD29693-8R	SPLP PAHs
MW-6-0305	JD29693-11R	SPLP ETPH, SPLP PAHs
MW-4-0002	JD29693-15R	SPLP PAHs, SPLP RCP-15 Metals
MW-4-0204	JD29693-16R	SPLP RCP-15 Metals
MW-1R-0002	JD29693-17R	SPLP PAHs
B-2-0002	JD29693-19R	SPLP ETPH, SPLP RCP-15 Metals
B-3-0002	JD29693-21R	SPLP ETPH, SPLP PAHs
B-3-0305	JD29693-22R	SPLP ETPH, SPLP PAHs

The data were evaluated using the Quality Assurance Project Plan Addendum (QAPPA) (dated July 2021) and the Program QAPP (dated May 2017). Both were prepared by KGSNE, LLC. The QAPPA appends and incorporates by reference the procedures and quality control measures detailed in the Program QAPP (May 2017). Therefore, site data for this SDG were evaluated using both the QAPPA of July 2021 and the Program QAPP dated May 2017. The Connecticut Department of Energy and Environmental Protection (CTDEEP) Reasonable Confidence Protocol (RCP) methods were used to perform all sample analyses. As a result, the relevant quality control (QC) spiking compounds and QC limits reported by the laboratory are generally more consistent with the RCP Methods than with those in the Program QAPP (e.g., many QC spiking compounds

Nobis Group®
585 Middlesex Street
Lowell, MA 01851
T (978) 683-0891

do not match those in the Program QAPP). Therefore, the RCP method QC limits were also used for data validation.

Compound/analyte lists reported by the laboratory for the SPLP PAHs, SPLP RCP-15 Metals, and SPLP ETPH analyses were compared to the lists provided in Table 3 of QAPPA. All required compounds/analytes were analyzed by the laboratory except for the following inconsistencies:

SPLP PAHs: The compound 2-methylnaphthalene is included in Table 3 of QAPPA for SPLP PAH analysis but the laboratory report did not include results for this compound. The laboratory was contacted and analyses for 2-methylnaphthalene were subsequently submitted as laboratory report JD29693RT. Results are included in this evaluation and no further action is taken.

SPLP RCP-15 Metals: Table 3 of QAPPA lists RCP-15 metals for SPLP analysis. The laboratory inadvertently reported results for 8 (RCRA) metals. The laboratory was contacted and analyses for the additional metals were subsequently submitted as a revised laboratory report JD29693R. Results are included in this evaluation and no further action is taken.

2. Holding Time and Sample Preservation Compliance

Receipt temperatures acceptable (≤ 6°), as specified in the QAPPA (July 2021). No action required.

As noted in the sample login, lab was directed to proceed with analysis of samples beyond holding time.

SPLP PAHs: Holding time criteria (SPLP extraction within 14 days from collection, method extraction within 7 days from SPLP extraction and analyzed within 40 days of extraction) were not met for all soils since SPLP extraction was > 14 days from collection. The positive results in all soils were qualified as estimated (J-) and the nondetect results were rejected (R) and are not usable for project objectives.

SPLP RCP-15 Metals: Holding time criteria (SPLP extraction within 180 days from collection and analysis within 180 days from SPLP extraction for metals; SPLP extraction within 28 days from collection and analysis within 28 days from SPLP extraction for Hg) were met.

SPLP ETPH: Holding time criteria (SPLP extraction within 14 days from collection, method extraction within 7 days from SPLP extraction and analyzed within 40 days of extraction) were not met for all soils since SPLP extraction was > 14 days from collection. The positive results in all soils were qualified as estimated (J-) and the nondetect results were rejected (R) and are not usable for project objectives.

3. Calibration Issues

Not assessed for S2AVM data review.

4. Lab and Field Blanks

SPLP PAHs: Results for PAH laboratory method blank OP35296-MB1 and leachate blank OP35296-LB19 are non-detect. No blank actions are taken.

SPLP RCP-15 Metals: Results for metals leachate blanks associated with the samples of this SDG (QC batch blanks MP28466 and MP28467) are non-detect. Results for mercury leachate

blanks associated with the samples (QC batch blanks MP28493 and MP28494) are non-detect. No blank actions required.

SPLP ETPH: Results for ETPH laboratory method blanks OP35297-MB1 and OP35551-MB1 were non-detect. Results for leachate blank OP35551-LB13 were also non-detect; however, DRO (C9-C36) was detected at 0.202 mg/L in leachate blank OP35297-LB18. This leachate blank is associated with samples B-2-0002 (JD29693-19R) and B-3-0002 (JD29693-21R). DRO (C9-C36) was not detected in either of the samples. No blank actions required.

No equipment blanks are associated with the samples of this SDG. No action required.

5. Interference Check Sample (metals only)

Not assessed for S2AVM data review.

6. Surrogates

The Program QAPP (May 2017) was used to evaluate site data for surrogate recovery. Where available, the Program QAPP surrogate recovery limits were used to evaluate surrogate recoveries in the leachate samples. If no Program QAPP-specific recovery limits were available for a surrogate, the recovery limits specified in the RCP method were used.

SPLP PAHs: Percent surrogate recoveries were within the Program QAPP and/or RCP method aqueous limits in all leachate samples.

SPLP RCP-15 Metals: Not applicable for this analysis.

SPLP ETPH: Surrogate recovery limits for ETPH were not provided in the Program QAPP. Laboratory-established percent recovery limits for the surrogate o-terphenyl are consistent with the RCP method aqueous recovery limit range of 50-150%. Therefore, the RCP CT ETPH method recovery limits of 50-150% were used for data validation purposes.

Percent recoveries of o-terphenyl were within the RCP method aqueous recovery limits of 50-150% in all leachate samples. No actions are required.

7. Laboratory Control Samples

SPLP PAHs: The Program QAPP indicates that percent recoveries for the LCS/LCSD analyses for PAHs should meet laboratory-established limits. Some laboratory-established percent recovery limits are outside of the RCP method limit range of 40-140% for base/neutral compounds (i.e., for all PAH compounds). However, percent recoveries of all LCS PAH compounds are within either the acceptable laboratory-established limits or the RCP method default limits of 40-140%. No action is required.

SPLP RCP-15 Metals: Percent recoveries for the metals and mercury LCS analyses were within the Program QAPP and RCP method recovery limit range of 80-120%. No action is required.

SPLP ETPH: Recovery limits for ETPH were not provided in the Program QAPP or QAPPA. The laboratory-established percent recovery limits are outside of the RCP method recovery limit range of 60-120%. Therefore, the RCP default recovery limits of 60-120% were used for data validation purposes.

Percent recoveries for the ETPH LCS/LCSD analyses were within the RCP method recovery limits of 60-120%. No action required.

8. Matrix Spikes

Based on Region 1 guidelines, qualifications are applied to all field samples with similar matrix.

SPLP PAHs: A leachate MS analysis was performed on sample MW-4-0002 (JD29693-15R). Aqueous MS/MSD recovery limits for two PAHs (acenaphthene and pyrene) are provided in the Program QAPP. The laboratory reported percent recoveries and RPDs for all PAHs analyzed in the leachate MS sample. Therefore, recoveries for the remaining PAHs were evaluated using the RCP method limits. Several laboratory-established recovery limits for the leachate MS analysis were outside of the RCP method recovery limits of 40-140%. Therefore, the RCP default method recovery limits of 40-140% were used for data validation purposes, for compounds without recovery limits in the Program QAPP.

Percent recoveries for acenaphthene and pyrene are within the aqueous Program QAPP limits in the leachate MS analysis. Percent recoveries for benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene are below the RCP method limits of 40-140%. Professional judgement was used to qualify detected and non-detected results for benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene as estimated with a potential low bias (J-/UJ) in all leachate samples due to the low leachate MS recoveries.

Note that the MS/MSD analyses did not include 2-methylnaphthalene; however, the reporting of 2-methylnaphthalene included acceptable LCS/LCSD results. No action is taken.

SPLP RCP-15 Metals: MS/MSD analyses were performed on the leachate fractions of samples B-10-0204 (JD29693-2R) and B-2-0002 (JD29693-19R). Percent recoveries and RPDs of all metals (including mercury) are within the Program QAPP recovery limits of 75-125% and RPD of ≤ 20%. No action is required.

SPLP ETPH: Leachate MS/MSD analyses were performed on sample B-8-0002 (JD29693R-7R). Laboratory-established MS recovery limits were outside of the RCP method limits of 50-150%; therefore, the RCP method recovery limits of 50-150% were used for data validation purposes.

The percent recovery of DRO (C9-C36) for the leachate MS/MSD analysis was within 50-150% and RPD was within RCP limits of ≤30%. No action is required.

9. Laboratory Duplicates (metals only)

The lab elected to run MSDs for laboratory duplicate analyses. The RPDs for all metals and mercury in the MS and MSD samples were below 20%. No action is required.

10. Serial Dilution (metals only)

Serial dilution analyses were performed for metals on samples B-10-0204 (JD29693-2R) and B-2-0002 (JD29693-19R). The Program QAPP serial dilution limit is percent difference (%D) < 10% for compounds detected at > 50x MDL.

As shown on the laboratory's Serial Dilution Summary Forms for this SDG, all %D values for compounds with initial detections > 50x MDL were < 10%. No action is required.

11. Field Duplicate Precision

The field duplicate pair MW-3 / FD-01 is associated with the samples of this SDG. Leachate fractions are not available for both samples of the field duplicate pair. Therefore, field duplicate precision could not be evaluated for SPLP analyses.

12. Internal Standards

Not assessed for S2AVM data review.

13. Dual Column Precision

No applicable for the analyses of this SDG.

14. Performance Evaluation Samples

Performance Evaluation (PE) samples were not included in this SDG.

15. Reporting Limits

Non-detect results for SPLP RCP-15 metals meet the Project Action Levels (PALs) for the project (QAPPA Table 3). There are no PALs for SPLP PAHs or SPLP CT ETPH on Table 3. No actions required.

16. Other

Percent solids Reg 1/NE criteria (> 30%). The percent solid criterion is not applicable to leachate samples. The criterion of 30% was met for the soil samples on which these leachate samples are based. No action is taken.

Overall bias is considered indeterminate when cumulative nonconformances do not show a consistent bias or in cases of the presence of conflicting high and low biases.

SO
SLL

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-02-FORM-Standard COC

FED-EX Tracking #:
Bottle Order Control #: JD29693
SGS Quote #: TF-68321-148
SGS Job #: NEIMAL89598

Client / Reporting Information

Company Name: Nobis
Street Address: 585 Middlesex St
City / State / Zip: Lowell MA 01851
Project Contact / E-mail: Jeff Brunelle JBrunelle@nobisgroup.com
Phone #: 603-508-0084
Sampler(s) Name(s) / Phone #: A Epstein

Project Information

Project Name: 43 Hempstead St New London CT
Street: 43 Hempstead
City / State: New London CT
Project #: 93203.15
Client Purchase Order #: 93203.15/208
Project Manager: Jeff Brunelle

Billing Information (If different from Report to)

Company Name: Same
Street Address:
City / State / Zip:
Attention:

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	VOCs	ETPH	PAH SIM	Pesticides	PCBs Soxhlet	RCP metals + Hg	LAB USE ONLY
1	B-10-0002		8/9/21	915	AE	G	S	5					2	2	1		X	X	X	X	X	X	P51
2	B-10-0304			920													X	X	X	X	X	X	1414
3	B-7-0002			945													X	X	X	X	X	X	4012
4	B-7-0507			950													X	X	X	X	X	X	4013
5	B-9-0002			1005													X	X	X	X	X	X	D45
6	B-9-0305			1010													X	X	X	X	X	X	
7	B-8-0002			1026													X	X	X	X	X	X	
8	FD-01			1600													X	X	X	X	X	X	
9	B-8-0507			1025													X	X	X	X	X	X	
10	MW-6-0002			1210													X	X	X	X	X	X	
11	MW-6-0305			1215													X	X	X	X	X	X	
12	MW-5-0002			1330													X	X	X	X	X	X	

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [x] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special instructions

Hold remaining soil for potential SPLP ETPH, SPLP PAH, SPLP metals

SGS-ACCUTEST MARLBOR 8/10

http://www.sgs.com/en/terms-and-condition

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by	Date / Time	Received By	Relinquished By	Date / Time	Received By
1 MCS	8/10/21 14:55	1 [illegible]	2 [illegible]	8/10/21 15:00	2 Fed Ex
3 Fedex	8-11-21 8:03	3 [illegible]	4		4
5		5			

Custody Seal # 17403, 15404, 15 905 — Intact / Not Intact — Preserved where applicable — Absent — Therm. ID: — On Ice — Cooler Temp. °C 3.4°C

JD29693R: Chain of Custody
Page 1 of 5

CHAIN OF CUSTODY

SGS

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-02-FORM-Standard COC

FED-EX Tracking #:
Bottle Order Control #: JD29693
SGS Quote #:
SGS Job #:

Client / Reporting Information

Company Name: NoBis
Street Address: 565 Middlesex St
City: Lowell State: MA Zip: 01851
Project Contact: Jeff Brunelle E-mail: JBrunelle@nobis-group.com
Phone #: 603-505-0084
Sampler(s) Name(s): AEpstein Phone #:

Project Information

Project Name: 43 Hempstead St New London CT
Street: 43 Hempstead
City: New London State: CT
Project #: 93203.15
Client Purchase Order #: 93203.15 / 206
Project Manager: Jeff Brunelle

Billing Information (If different from Report to)
Company Name: Same
Street Address:
City: State: Zip:
Attention:

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	VOCs	ETPH	PAH SIM	Pesticides	PCB Soxhlet	RCP Metals + Hg						LAB USE ONLY
13	MW-05-0810		8/9/21	1340	AE	G	S	5					2	2	1		X	X	X	X	X	X						
14	TB-01			1605				3						2	1		X											
15	MW-4-0002		8/10/21	915				5					2	2	1		X	X	X	X	X	X						
16	MW-4-0204			925													X	X	X	X	X	X						
17	MW-1R-0002			1100													X	X	X	X	X	X						
18	MW-1R-0406			1105													X	X	X	X	X	X						
19	B-2-0002			1305				15					6	6	3		X	X	X	X	X	X						
20	B-2-0507			1255				5					2	2	1		X	X	X	X	X	X						
21	B-3-0002			1325				5									X	X	X	X	X	X						
22	B-3-0305			1330				5									X	X	X	X	X	X						

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days*
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Lablink. * Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria
- [ ] CT RCP Criteria
- [ ] State Forms
- [ ] EDD Format
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Hold remaining soil for potential SPLP ETPH, SPLP PAH, SPLP Metals
B-2-0002 MS/MSD

SGS-ACCUTEST MARLBOR 8/10

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	8/10/21 4:55	1	2	8/10/21 1840	2
Relinquished by: 3	Date / Time: 8/11/21 9:05	Received By: 3	Relinquished By: 4	Date / Time:	Received By: 4
Relinquished by: 5	Date / Time:	Received By: 5	Custody Seal #	[ ] Intact [ ] Not intact	Preserved where applicable [ ] Absent

On Ice [x] Cooler Temp. °C Therm. ID:

JD29693R: Chain of Custody
Page 2 of 5

November 12, 2021
Nobis File No. 93203

Mr. James Byrne
USEPA – Region 1
Land, Chemicals, and Redevelopment Division
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Re: USEPA Contract No. EP-S1-17-01
USEPA Task Order No. 68HE0119F0009
Targeted Brownfields Assessment (TBA)
43 Hempstead Street Site
New London, Connecticut
Sample Delivery Group (SDG) No. JD30293
SGS North America, Inc., Dayton, NJ

Tier 1 Stage 2A Organic and Inorganic Data Review

Volatile Organic Compounds (VOCs by 8260D), Polycyclic Aromatic Hydrocarbons (PAHs by 8270E-SIM), Pesticides by 8081B, Polychlorinated Biphenyls (PCBs by 8082A), Metals (Reasonable Confidence Protocols [RCP]-15 Metals) by 6020D/7470A), Extractable Total Petroleum Hydrocarbons (ETPH by CT ETPH):

7/Groundwater Samples: MW-1R, MW-2, MW-3, MW-4, MW-5, MW-6, FD-01
1/Field Duplicate Pair: MW-3 / FD-01
1/Aqueous Trip Blank: Trip Blank

Dear Mr. Byrne:

Nobis Group (Nobis), under a USEPA contract as a subcontractor to KGSNE JV, LLC, performed a Tier 1 Stage 2A manual data review (S2AVM) on the organic and inorganic analytical data for the samples listed above. The samples were collected by Nobis at the 43 Hempstead Street Site located in New London, Connecticut on August 18 and 19, 2021. The samples were analyzed for VOCs by EPA Method 8260D, PAHs by EPA Method 8270E-SIM, Pesticides by EPA Method 8081B, PCBs by EPA Method 8082A, RCP-15 Metals by EPA Method 6020B/7470A, and ETPH by CT ETPH by SGS North America, Inc. in Dayton, NJ (organic analyses and mercury) and SGS North America, Inc., in Orlando, FL (metals except mercury).

The Tier 1 Stage 2A manual data review was performed in accordance with the Region 1 - EPA New England Environmental Data Review Supplement for Region 1 Data Review Elements and Superfund Specific Guidance/Procedures (September 2020); USEPA's National Functional Guidelines for Organic Superfund Methods Data Review (January 2017); USEPA's National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017); the Program Quality Assurance Project Plan (Program QAPP) (RFA# 17078), dated May 17, 2017, and the Quality Assurance Project Plan Addendum (QAPPA) (July 2021) for the 43 Hempstead Street Site, which appends the May 2017 Program QAPP.

The data were evaluated based on the following parameters:

* • Overall Evaluation of Data and Potential Usability Issues

Nobis Group®
585 Middlesex Street
Lowell, MA 01851
T (978) 683-0891

*	•	Data Completeness
*	•	Preservation and Technical Holding Times
*	•	Blanks
	•	Surrogates (organic analyses only)
NA	•	Internal Standards
*	•	Matrix Spike Analysis
*	•	Laboratory Duplicates
*	•	Laboratory Control Samples (LCS)
	•	Field Duplicates
*	•	ICP Serial Dilutions (metals only)
NA	•	Performance Evaluation (PE) Samples
*	•	Target Analyte Identification
*	•	Reported Quantitation Limits

* All criteria were met for this parameter or did not require qualification.
NA – Not applicable.

Overall Evaluation of Data and Potential Usability Issues

The site sampling objectives are:

- Characterize in-situ soil for the presence of possible site-related contamination.
- Evaluate groundwater elevation.
- Evaluate presence/absence of groundwater contamination related to the site.

The data meet the project quality criteria and can be used without restriction except as summarized below. The attachments provide details and supporting documentation. Note that the reporting limits for 1,2-dibromo-3-chloropropane (2 ug/L) and chlordane (0.39 ug/L to 0.43 ug/L) may not meet project objectives.

VOCs:
Qualification of the data was not required.

PAHs:
Qualification of the data was not required.

Pesticides:
Qualification of the data was not required.

PCBs:
Qualification of the data was not required.

Metals:
Results were qualified for field duplicate imprecision.

ETPH:
Results were qualified for a surrogate recovery exceedance.

Please contact Linda Terzis at lterzis@nobis-group.com should you have any questions or comments regarding this information.

Sincerely,

NOBIS GROUP®

Linda Terzis
Data Validator

Kristin Rutherford
Data Validator

Tables: Data Summary Tables – Tier 1 Stage 2A (S2AVM) Validated Data
Data Qualification Actions Table

Attachments: Data Review Checklist
Support Documentation
COC

cc: Edward King (KGSNE)
Jeffrey Brunelle (Nobis Group)

DATA SUMMARY TABLE

Analysis		Metals in Groundwater				
Lab Sample ID		JD30293-1	JD30293-2	JD30293-3	JD30293-4	JD30293-5
Field Sample ID		MW-3	FD-01-20210818	MW-2	MW-5	MW-6
Sample Type		N	FD	N	N	N
Parent Sample ID			MW-3			
Sample Date	**Units**	08/18/21	08/18/21	08/18/21	08/18/21	08/18/21
Antimony	ug/L	2 U	2 U	2 U	2 U	2 U
Arsenic	ug/L	2.4	2 U	2 U	2 U	2 U
Barium	ug/L	136	111	153	81.7	35.9
Beryllium	ug/L	2 U	2 U	2 U	2 U	2 U
Cadmium	ug/L	2 U	2 U	2 U	2 U	2 U
Chromium	ug/L	10.8	3.1	2 U	2 U	2 U
Copper	ug/L	39.7 J	8.2 J	2 UJ	2 UJ	2 UJ
Lead	ug/L	30.2 J	6.7 J	2 UJ	2.1 UJ	2 UJ
Mercury	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	ug/L	3.9	2 U	2 U	2 U	3.1
Selenium	ug/L	3.7	2 U	2 U	2 U	2 U
Silver	ug/L	2 U	2 U	2 U	2 U	2 U
Thallium	ug/L	2 U	2 U	2 U	2 U	2 U
Vanadium	ug/L	13.6 J	3.8 J	2 UJ	2 UJ	2 UJ
Zinc	ug/L	75.8 J	29.3 J	63.6 J	6.3 J	5.1 J

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Metals in Groundwater	
Lab Sample ID		JD30293-6	JD30293-7
Field Sample ID		MW-4	MW-1R
Sample Type		N	N
Parent Sample ID			
Sample Date	**Units**	08/19/21	08/19/21
Antimony	ug/L	2 U	2 U
Arsenic	ug/L	2 U	2 U
Barium	ug/L	86.2	60.2
Beryllium	ug/L	2 U	2 U
Cadmium	ug/L	2 U	2 U
Chromium	ug/L	2 U	4.6
Copper	ug/L	2 UJ	5.4 J
Lead	ug/L	2 UJ	43.7 J
Mercury	ug/L	0.2 U	0.2 U
Nickel	ug/L	2.2	2
Selenium	ug/L	2 U	2 U
Silver	ug/L	2 U	2 U
Thallium	ug/L	2 U	2 U
Vanadium	ug/L	2 UJ	5.7 J
Zinc	ug/L	4.4 J	19.9 J

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Groundwater				
Lab Sample ID		JD30293-1	JD30293-2	JD30293-3	JD30293-4	JD30293-5
Field Sample ID		MW-3	FD-01-20210818	MW-2	MW-5	MW-6
Sample Type		N	FD	N	N	N
Parent Sample ID			MW-3			
Sample Date	**Units**	08/18/21	08/18/21	08/18/21	08/18/21	08/18/21
4,4'-DDD	ug/L	0.0082 U	0.0078 U	0.0083 U	0.008 U	0.0085 U
4,4'-DDE	ug/L	0.0082 U	0.0078 U	0.0083 U	0.008 U	0.0085 U
4,4'-DDT	ug/L	0.0082 U	0.0078 U	0.0083 U	0.008 U	0.0085 U
Alachlor	ug/L	0.082 U	0.078 U	0.083 U	0.08 U	0.085 U
Aldrin	ug/L	0.0082 U	0.0078 U	0.0083 U	0.008 U	0.0085 U
alpha-BHC	ug/L	0.0082 U	0.0078 U	0.0083 U	0.008 U	0.0085 U
Aroclor 1016	ug/L	0.41 U	0.39 U	0.42 U	0.4 U	0.43 U
Aroclor 1221	ug/L	0.41 U	0.39 U	0.42 U	0.4 U	0.43 U
Aroclor 1232	ug/L	0.41 U	0.39 U	0.42 U	0.4 U	0.43 U
Aroclor 1242	ug/L	0.41 U	0.39 U	0.42 U	0.4 U	0.43 U
Aroclor 1248	ug/L	0.41 U	0.39 U	0.42 U	0.4 U	0.43 U
Aroclor 1254	ug/L	0.41 U	0.39 U	0.42 U	0.4 U	0.43 U
Aroclor 1260	ug/L	0.41 U	0.39 U	0.42 U	0.4 U	0.43 U
Aroclor 1262	ug/L	0.41 U	0.39 U	0.42 U	0.4 U	0.43 U
Aroclor 1268	ug/L	0.41 U	0.39 U	0.42 U	0.4 U	0.43 U
Aroclor, Total	ug/L	0.41 U	0.39 U	0.42 U	0.4 U	0.43 U
beta-BHC	ug/L	0.0082 U	0.0078 U	0.0083 U	0.008 U	0.0085 U
Chlordane	ug/L	0.41 U	0.39 U	0.42 U	0.4 U	0.43 U
delta-BHC	ug/L	0.0082 U	0.0078 U	0.0083 U	0.008 U	0.0085 U
Dieldrin	ug/L	0.0082 U	0.0078 U	0.0083 U	0.008 U	0.0085 U
Endosulfan I	ug/L	0.0082 U	0.0078 U	0.0083 U	0.008 U	0.0085 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Groundwater	
Lab Sample ID		JD30293-6	JD30293-7
Field Sample ID		MW-4	MW-1R
Sample Type		N	N
Parent Sample ID			
Sample Date	**Units**	08/19/21	08/19/21
4,4'-DDD	ug/L	0.008 U	0.0085 U
4,4'-DDE	ug/L	0.008 U	0.0085 U
4,4'-DDT	ug/L	0.008 U	0.0085 U
Alachlor	ug/L	0.08 U	0.085 U
Aldrin	ug/L	0.008 U	0.0085 U
alpha-BHC	ug/L	0.008 U	0.0085 U
Aroclor 1016	ug/L	0.4 U	0.43 U
Aroclor 1221	ug/L	0.4 U	0.43 U
Aroclor 1232	ug/L	0.4 U	0.43 U
Aroclor 1242	ug/L	0.4 U	0.43 U
Aroclor 1248	ug/L	0.4 U	0.43 U
Aroclor 1254	ug/L	0.4 U	0.43 U
Aroclor 1260	ug/L	0.4 U	0.43 U
Aroclor 1262	ug/L	0.4 U	0.43 U
Aroclor 1268	ug/L	0.4 U	0.43 U
Aroclor, Total	ug/L	0.4 U	0.43 U
beta-BHC	ug/L	0.008 U	0.0085 U
Chlordane	ug/L	0.4 U	0.43 U
delta-BHC	ug/L	0.008 U	0.0085 U
Dieldrin	ug/L	0.008 U	0.0085 U
Endosulfan I	ug/L	0.008 U	0.0085 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Groundwater				
Lab Sample ID		JD30293-1	JD30293-2	JD30293-3	JD30293-4	JD30293-5
Field Sample ID		MW-3	FD-01-20210818	MW-2	MW-5	MW-6
Sample Type		N	FD	N	N	N
Parent Sample ID			MW-3			
Sample Date	**Units**	08/18/21	08/18/21	08/18/21	08/18/21	08/18/21
Endosulfan II	ug/L	0.0082 U	0.0078 U	0.0083 U	0.008 U	0.0085 U
Endosulfan Sulfate	ug/L	0.0082 U	0.0078 U	0.0083 U	0.008 U	0.0085 U
Endrin	ug/L	0.0082 U	0.0078 U	0.0083 U	0.008 U	0.0085 U
Endrin Aldehyde	ug/L	0.0082 U	0.0078 U	0.0083 U	0.008 U	0.0085 U
Endrin Ketone	ug/L	0.0082 U	0.0078 U	0.0083 U	0.008 U	0.0085 U
gamma-BHC (Lindane)	ug/L	0.0082 U	0.0078 U	0.0083 U	0.008 U	0.0085 U
Heptachlor	ug/L	0.0082 U	0.0078 U	0.0083 U	0.008 U	0.0085 U
Heptachlor Epoxide	ug/L	0.0082 U	0.0078 U	0.0083 U	0.008 U	0.0085 U
Hexachlorobenzene	ug/L	0.012	0.012	0.0083 U	0.008 U	0.0085 U
Methoxychlor	ug/L	0.016 U	0.016 U	0.017 U	0.016 U	0.017 U
Toxaphene	ug/L	0.2 U	0.2 U	0.21 U	0.2 U	0.21 U

DATA SUMMARY TABLE

Analysis		Pesticides/PCBs in Groundwater	
Lab Sample ID		JD30293-6	JD30293-7
Field Sample ID		MW-4	MW-1R
Sample Type		N	N
Parent Sample ID			
Sample Date	**Units**	08/19/21	08/19/21
Endosulfan II	ug/L	0.008 U	0.0085 U
Endosulfan Sulfate	ug/L	0.008 U	0.0085 U
Endrin	ug/L	0.008 U	0.0085 U
Endrin Aldehyde	ug/L	0.008 U	0.0085 U
Endrin Ketone	ug/L	0.008 U	0.0085 U
gamma-BHC (Lindane)	ug/L	0.008 U	0.0085 U
Heptachlor	ug/L	0.008 U	0.0085 U
Heptachlor Epoxide	ug/L	0.008 U	0.0085 U
Hexachlorobenzene	ug/L	0.008 U	0.0088
Methoxychlor	ug/L	0.016 U	0.017 U
Toxaphene	ug/L	0.2 U	0.21 U

DATA SUMMARY TABLE

Analysis		Petroleum Hydrocarbons in Groundwater				
Lab Sample ID		JD30293-1	JD30293-2	JD30293-3	JD30293-4	JD30293-5
Field Sample ID		MW-3	FD-01-20210818	MW-2	MW-5	MW-6
Sample Type		N	FD	N	N	N
Parent Sample ID			MW-3			
Sample Date	**Units**	08/18/21	08/18/21	08/18/21	08/18/21	08/18/21
Diesel Range Organics (C9-C36)	mg/L	0.1 U	0.11 UJ	0.11 U	0.11 U	0.11 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Petroleum Hydrocarbons in Groundwater	
Lab Sample ID		JD30293-6	JD30293-7
Field Sample ID		MW-4	MW-1R
Sample Type		N	N
Parent Sample ID			
Sample Date	**Units**	08/19/21	08/19/21
Diesel Range Organics (C9-C36)	mg/L	0.1 U	0.11 U

DATA SUMMARY TABLE

Analysis		Semivolatiles in Groundwater				
Lab Sample ID		JD30293-1	JD30293-2	JD30293-3	JD30293-4	JD30293-5
Field Sample ID		MW-3	FD-01-20210818	MW-2	MW-5	MW-6
Sample Type		N	FD	N	N	N
Parent Sample ID			MW-3			
Sample Date	**Units**	08/18/21	08/18/21	08/18/21	08/18/21	08/18/21
2-Methylnaphthalene	ug/L	33.7	27.2	57.3	38.1	937
Acenaphthene	ug/L	0.074 U	0.071 U	0.077 U	0.071 U	0.523
Acenaphthylene	ug/L	0.074 U	0.071 U	0.077 U	0.071 U	0.639
Anthracene	ug/L	0.074 U	0.071 U	0.077 U	0.071 U	0.231
Benzo(a)anthracene	ug/L	0.037 U	0.036 U	0.038 U	0.036 U	0.04 U
Benzo(a)pyrene	ug/L	0.037 U	0.036 U	0.038 U	0.036 U	0.04 U
Benzo(b)fluoranthene	ug/L	0.037 U	0.0436	0.038 U	0.036 U	0.04 U
Benzo(g,h,i)perylene	ug/L	0.074 U	0.071 U	0.077 U	0.071 U	0.08 U
Benzo(k)fluoranthene	ug/L	0.074 U	0.071 U	0.077 U	0.071 U	0.08 U
Chrysene	ug/L	0.074 U	0.071 U	0.077 U	0.071 U	0.08 U
Dibenz(a,h)anthracene	ug/L	0.074 U	0.071 U	0.077 U	0.071 U	0.08 U
Fluoranthene	ug/L	0.074 U	0.071 U	0.077 U	0.071 U	0.198
Fluorene	ug/L	0.074 U	0.071 U	0.077 U	0.071 U	0.572
Indeno(1,2,3-cd)pyrene	ug/L	0.074 U	0.071 U	0.077 U	0.071 U	0.08 U
Naphthalene	ug/L	0.074 U	0.071 U	0.077 U	0.071 U	7.28
Phenanthrene	ug/L	0.074 U	0.071 U	0.077 U	0.071 U	0.946
Pyrene	ug/L	0.074 U	0.071 U	0.077 U	0.071 U	0.17

DATA SUMMARY TABLE

Analysis		Semivolatiles in Groundwater	
Lab Sample ID		JD30293-6	JD30293-7
Field Sample ID		MW-4	MW-1R
Sample Type		N	N
Parent Sample ID			
Sample Date	**Units**	08/19/21	08/19/21
2-Methylnaphthalene	ug/L	35.6	21.9
Acenaphthene	ug/L	0.074 U	0.077 U
Acenaphthylene	ug/L	0.074 U	0.077 U
Anthracene	ug/L	0.074 U	0.077 U
Benzo(a)anthracene	ug/L	0.037 U	0.038 U
Benzo(a)pyrene	ug/L	0.037 U	0.038 U
Benzo(b)fluoranthene	ug/L	0.037 U	0.0517
Benzo(g,h,i)perylene	ug/L	0.074 U	0.077 U
Benzo(k)fluoranthene	ug/L	0.074 U	0.077 U
Chrysene	ug/L	0.074 U	0.077 U
Dibenz(a,h)anthracene	ug/L	0.074 U	0.077 U
Fluoranthene	ug/L	0.122	0.077 U
Fluorene	ug/L	0.074 U	0.077 U
Indeno(1,2,3-cd)pyrene	ug/L	0.074 U	0.077 U
Naphthalene	ug/L	0.0745	0.077 U
Phenanthrene	ug/L	0.106	0.077 U
Pyrene	ug/L	0.114	0.077 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Groundwater				
Lab Sample ID		JD30293-1	JD30293-2	JD30293-3	JD30293-4	JD30293-5
Field Sample ID		MW-3	FD-01-20210818	MW-2	MW-5	MW-6
Sample Type		N	FD	N	N	N
Parent Sample ID			MW-3			
Sample Date	**Units**	08/18/21	08/18/21	08/18/21	08/18/21	08/18/21
1,1,1,2-Tetrachloroethane	ug/L	1 U	1 U	1 U	1 U	1 U
1,1,1-Trichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	ug/L	1 U	1 U	1 U	1 U	1 U
1,1-Dichloropropene	ug/L	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U
1,2,3-Trichloropropane	ug/L	2 U	2 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U
1,2,4-Trimethylbenzene	ug/L	2 U	2 U	2 U	2 U	2 U
1,2-Dibromo-3-chloropropane	ug/L	2 U	2 U	2 U	2 U	2 U
1,2-Dibromoethane	ug/L	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	ug/L	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	ug/L	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene	ug/L	2 U	2 U	2 U	2 U	2 U
1,3-Dichlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U
1,3-Dichloropropane	ug/L	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Groundwater	
Lab Sample ID		JD30293-6	JD30293-7
Field Sample ID		MW-4	MW-1R
Sample Type		N	N
Parent Sample ID			
Sample Date	**Units**	08/19/21	08/19/21
1,1,1,2-Tetrachloroethane	ug/L	1 U	1 U
1,1,1-Trichloroethane	ug/L	1 U	1 U
1,1,2,2-Tetrachloroethane	ug/L	1 U	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	5 U	5 U
1,1,2-Trichloroethane	ug/L	1 U	1 U
1,1-Dichloroethane	ug/L	1 U	1 U
1,1-Dichloroethene	ug/L	1 U	1 U
1,1-Dichloropropene	ug/L	1 U	1 U
1,2,3-Trichlorobenzene	ug/L	1 U	1 U
1,2,3-Trichloropropane	ug/L	2 U	2 U
1,2,4-Trichlorobenzene	ug/L	1 U	1 U
1,2,4-Trimethylbenzene	ug/L	2 U	2 U
1,2-Dibromo-3-chloropropane	ug/L	2 U	2 U
1,2-Dibromoethane	ug/L	1 U	1 U
1,2-Dichlorobenzene	ug/L	1 U	1 U
1,2-Dichloroethane	ug/L	1 U	1 U
1,2-Dichloropropane	ug/L	1 U	1 U
1,3,5-Trimethylbenzene	ug/L	2 U	2 U
1,3-Dichlorobenzene	ug/L	1 U	1 U
1,3-Dichloropropane	ug/L	1 U	1 U
1,4-Dichlorobenzene	ug/L	1 U	1 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Groundwater				
Lab Sample ID		JD30293-1	JD30293-2	JD30293-3	JD30293-4	JD30293-5
Field Sample ID		MW-3	FD-01-20210818	MW-2	MW-5	MW-6
Sample Type		N	FD	N	N	N
Parent Sample ID			MW-3			
Sample Date	**Units**	08/18/21	08/18/21	08/18/21	08/18/21	08/18/21
2,2-Dichloropropane	ug/L	1 U	1 U	1 U	1 U	1 U
2-Butanone	ug/L	10 U	10 U	10 U	10 U	10 U
2-Chlorotoluene	ug/L	2 U	2 U	2 U	2 U	2 U
2-Hexanone	ug/L	5 U	5 U	5 U	5 U	5 U
4-Chlorotoluene	ug/L	2 U	2 U	2 U	2 U	2 U
4-Isopropyltoluene	ug/L	2 U	2 U	2 U	2 U	2 U
4-Methyl-2-pentanone	ug/L	5 U	5 U	5 U	5 U	5 U
Acetone	ug/L	10 U	10 U	10 U	10 U	10 U
Acrylonitrile	ug/L	10 U	10 U	10 U	10 U	10 U
Benzene	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene	ug/L	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	ug/L	1 U	1 U	1 U	1 U	1 U
Bromoform	ug/L	1 U	1 U	1 U	1 U	1 U
Bromomethane	ug/L	2 U	2 U	2 U	2 U	2 U
Carbon disulfide	ug/L	2 U	2 U	2 U	2 U	2 U
Carbon tetrachloride	ug/L	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	ug/L	1 U	1 U	1 U	1 U	1 U
Chloroethane	ug/L	1 U	1 U	1 U	1 U	1 U
Chloroform	ug/L	1 U	1 U	1 U	1 U	1 U
Chloromethane	ug/L	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	ug/L	1 U	1 U	1 U	1 U	1 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Groundwater	
Lab Sample ID		JD30293-6	JD30293-7
Field Sample ID		MW-4	MW-1R
Sample Type		N	N
Parent Sample ID			
Sample Date	**Units**	08/19/21	08/19/21
2,2-Dichloropropane	ug/L	1 U	1 U
2-Butanone	ug/L	10 U	10 U
2-Chlorotoluene	ug/L	2 U	2 U
2-Hexanone	ug/L	5 U	5 U
4-Chlorotoluene	ug/L	2 U	2 U
4-Isopropyltoluene	ug/L	2 U	2 U
4-Methyl-2-pentanone	ug/L	5 U	5 U
Acetone	ug/L	10 U	10 U
Acrylonitrile	ug/L	10 U	10 U
Benzene	ug/L	0.5 U	0.5 U
Bromobenzene	ug/L	1 U	1 U
Bromodichloromethane	ug/L	1 U	1 U
Bromoform	ug/L	1 U	1 U
Bromomethane	ug/L	2 U	2 U
Carbon disulfide	ug/L	2 U	2 U
Carbon tetrachloride	ug/L	1 U	1 U
Chlorobenzene	ug/L	1 U	1 U
Chloroethane	ug/L	1 U	1 U
Chloroform	ug/L	1 U	7.1
Chloromethane	ug/L	1 U	1 U
cis-1,2-Dichloroethene	ug/L	1 U	1 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Groundwater				
Lab Sample ID		JD30293-1	JD30293-2	JD30293-3	JD30293-4	JD30293-5
Field Sample ID		MW-3	FD-01-20210818	MW-2	MW-5	MW-6
Sample Type		N	FD	N	N	N
Parent Sample ID			MW-3			
Sample Date	**Units**	08/18/21	08/18/21	08/18/21	08/18/21	08/18/21
cis-1,3-Dichloropropene	ug/L	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	ug/L	1 U	1 U	1 U	1 U	1 U
Dibromomethane	ug/L	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	ug/L	2 U	2 U	2 U	2 U	2 U
Ethylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	ug/L	2 U	2 U	2 U	2 U	2 U
Isopropylbenzene	ug/L	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	ug/L	1 U	1 U	1 U	1 U	1 U
Methyl tert-butyl ether	ug/L	1 U	1 U	1 U	1 U	1 U
Methylene chloride	ug/L	2 U	2 U	2 U	2 U	2 U
Naphthalene	ug/L	5 U	5 U	5 U	5 U	23.1
n-Butylbenzene	ug/L	2 U	2 U	2 U	2 U	2 U
n-Propylbenzene	ug/L	2 U	2 U	2 U	2 U	2 U
o-Xylene	ug/L	1 U	1 U	1 U	1 U	1 U
sec-Butylbenzene	ug/L	2 U	2 U	2 U	2 U	2 U
Styrene	ug/L	1 U	1 U	1 U	1 U	1 U
tert-Butylbenzene	ug/L	2 U	2 U	2 U	2 U	2 U
Tetrachloroethene	ug/L	1 U	1 U	1 U	1 U	1 U
Tetrahydrofuran	ug/L	10 U	10 U	10 U	10 U	10 U
Toluene	ug/L	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	ug/L	1 U	1 U	1 U	1 U	1 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Groundwater	
Lab Sample ID		JD30293-6	JD30293-7
Field Sample ID		MW-4	MW-1R
Sample Type		N	N
Parent Sample ID			
Sample Date	**Units**	08/19/21	08/19/21
cis-1,3-Dichloropropene	ug/L	1 U	1 U
Dibromochloromethane	ug/L	1 U	1 U
Dibromomethane	ug/L	1 U	1 U
Dichlorodifluoromethane	ug/L	2 U	2 U
Ethylbenzene	ug/L	1 U	1 U
Hexachlorobutadiene	ug/L	2 U	2 U
Isopropylbenzene	ug/L	1 U	1 U
m,p-Xylene	ug/L	1 U	1 U
Methyl tert-butyl ether	ug/L	1 U	1 U
Methylene chloride	ug/L	2 U	2 U
Naphthalene	ug/L	5 U	5 U
n-Butylbenzene	ug/L	2 U	2 U
n-Propylbenzene	ug/L	2 U	2 U
o-Xylene	ug/L	1 U	1 U
sec-Butylbenzene	ug/L	2 U	2 U
Styrene	ug/L	1 U	1 U
tert-Butylbenzene	ug/L	2 U	2 U
Tetrachloroethene	ug/L	1 U	1 U
Tetrahydrofuran	ug/L	10 U	10 U
Toluene	ug/L	1 U	1 U
trans-1,2-Dichloroethene	ug/L	1 U	1 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Groundwater				
Lab Sample ID		JD30293-1	JD30293-2	JD30293-3	JD30293-4	JD30293-5
Field Sample ID		MW-3	FD-01-20210818	MW-2	MW-5	MW-6
Sample Type		N	FD	N	N	N
Parent Sample ID			MW-3			
Sample Date	**Units**	08/18/21	08/18/21	08/18/21	08/18/21	08/18/21
trans-1,3-Dichloropropene	ug/L	1 U	1 U	1 U	1 U	1 U
trans-1,4-Dichlorobutene	ug/L	5 U	5 U	5 U	5 U	5 U
Trichloroethene	ug/L	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	ug/L	2 U	2 U	2 U	2 U	2 U
Vinyl chloride	ug/L	1 U	1 U	1 U	1 U	1 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Groundwater	
Lab Sample ID		JD30293-6	JD30293-7
Field Sample ID		MW-4	MW-1R
Sample Type		N	N
Parent Sample ID			
Sample Date	**Units**	08/19/21	08/19/21
trans-1,3-Dichloropropene	ug/L	1 U	1 U
trans-1,4-Dichlorobutene	ug/L	5 U	5 U
Trichloroethene	ug/L	1 U	1 U
Trichlorofluoromethane	ug/L	2 U	2 U
Vinyl chloride	ug/L	1 U	1 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Water Quality Control Matrix
Lab Sample ID		JD30293-8
Field Sample ID		TRIP BLANK
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	08/19/21
1,1,1,2-Tetrachloroethane	ug/L	1 U
1,1,1-Trichloroethane	ug/L	1 U
1,1,2,2-Tetrachloroethane	ug/L	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	5 U
1,1,2-Trichloroethane	ug/L	1 U
1,1-Dichloroethane	ug/L	1 U
1,1-Dichloroethene	ug/L	1 U
1,1-Dichloropropene	ug/L	1 U
1,2,3-Trichlorobenzene	ug/L	1 U
1,2,3-Trichloropropane	ug/L	2 U
1,2,4-Trichlorobenzene	ug/L	1 U
1,2,4-Trimethylbenzene	ug/L	2 U
1,2-Dibromo-3-chloropropane	ug/L	2 U
1,2-Dibromoethane	ug/L	1 U
1,2-Dichlorobenzene	ug/L	1 U
1,2-Dichloroethane	ug/L	1 U
1,2-Dichloropropane	ug/L	1 U
1,3,5-Trimethylbenzene	ug/L	2 U
1,3-Dichlorobenzene	ug/L	1 U
1,3-Dichloropropane	ug/L	1 U
1,4-Dichlorobenzene	ug/L	1 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Water Quality Control Matrix
Lab Sample ID		JD30293-8
Field Sample ID		TRIP BLANK
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	08/19/21
2,2-Dichloropropane	ug/L	1 U
2-Butanone	ug/L	10 U
2-Chlorotoluene	ug/L	2 U
2-Hexanone	ug/L	5 U
4-Chlorotoluene	ug/L	2 U
4-Isopropyltoluene	ug/L	2 U
4-Methyl-2-pentanone	ug/L	5 U
Acetone	ug/L	10 U
Acrylonitrile	ug/L	10 U
Benzene	ug/L	0.5 U
Bromobenzene	ug/L	1 U
Bromodichloromethane	ug/L	1 U
Bromoform	ug/L	1 U
Bromomethane	ug/L	2 U
Carbon disulfide	ug/L	2 U
Carbon tetrachloride	ug/L	1 U
Chlorobenzene	ug/L	1 U
Chloroethane	ug/L	1 U
Chloroform	ug/L	1 U
Chloromethane	ug/L	1 U
cis-1,2-Dichloroethene	ug/L	1 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Water Quality Control Matrix
Lab Sample ID		JD30293-8
Field Sample ID		TRIP BLANK
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	08/19/21
cis-1,3-Dichloropropene	ug/L	1 U
Dibromochloromethane	ug/L	1 U
Dibromomethane	ug/L	1 U
Dichlorodifluoromethane	ug/L	2 U
Ethylbenzene	ug/L	1 U
Hexachlorobutadiene	ug/L	2 U
Isopropylbenzene	ug/L	1 U
m,p-Xylene	ug/L	1 U
Methyl tert-butyl ether	ug/L	1 U
Methylene chloride	ug/L	2 U
Naphthalene	ug/L	5 U
n-Butylbenzene	ug/L	2 U
n-Propylbenzene	ug/L	2 U
o-Xylene	ug/L	1 U
sec-Butylbenzene	ug/L	2 U
Styrene	ug/L	1 U
tert-Butylbenzene	ug/L	2 U
Tetrachloroethene	ug/L	1 U
Tetrahydrofuran	ug/L	10 U
Toluene	ug/L	1 U
trans-1,2-Dichloroethene	ug/L	1 U

U – not detected; J – estimated value; UJ – not detected, reporting limit estimated; R – rejected

DATA SUMMARY TABLE

Analysis		Volatiles in Water Quality Control Matrix
Lab Sample ID		JD30293-8
Field Sample ID		TRIP BLANK
Sample Type		TB
Parent Sample ID		
Sample Date	**Units**	08/19/21
trans-1,3-Dichloropropene	ug/L	1 U
trans-1,4-Dichlorobutene	ug/L	5 U
Trichloroethene	ug/L	1 U
Trichlorofluoromethane	ug/L	2 U
Vinyl chloride	ug/L	1 U

Data Review Qualification Actions
Case: 43 Hempstead Street
SDG: JD30293

Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
VOCs					
	Qualification of the data not required.				
PAHs - SIM					
	Qualification of the data not required.				
Pesticides					
	Qualification of the data not required.				
PCBs					
	Qualification of the data not required.				
Metals					
	Copper, Lead, Vanadium	MW-3, FD-01, MW-2, MW-5, MW-6, MW-4, MW-1R	Field duplicate precision	J/UJ	
	Zinc	MW-3, FD-01, MW-2, MW-5, MW-6, MW-4, MW-1R	Field duplicate precision	J/UJ	No NDs
ETPH					
	Diesel Range Organics (C9-C36)	FD-01	Surrogate recovery (low)	UJ	

Tier 1/Stage 2A Data Review Checklist

Project: **43 Hempstead Street, New London, Connecticut**
Targeted Brownfields Assessment (TBA)
Project #: **93203.15**
Case#: **NA**
Date: **10/01/2021**
Methods: **Volatile Organic Compounds (VOCs) by (8260D)**
Polycyclic Aromatic Hydrocarbons (PAHs) by Selected Ion Monitoring (SIM) (8270E-SIM)
Pesticides (8081B)
Polychlorinated Biphenyls (PCBs) by (8082A)
Metals (Reasonable Confidence Protocols [RCP]-15 Metals) (6020B/7470A)
Extractable Total Petroleum Hydrocarbon (CT ETPH)

Laboratory: **SGS North America, Inc., Dayton, NJ**
SDG: **JD30293**
Reviewer: **Linda Terzis**

1. **Case Narrative and Data Package Completeness (COC and Analyte List Review)**
Seven (7) groundwater samples were listed on the COC for SDG JD30293, including one field duplicate sample. A trip blank was also included on the COC. Samples were collected on 08/18/2021 and 08/19/2021. The samples were received at the lab on 08/19/2021 at temperatures ranging from 3.1 to 4.3C. Samples for all metals analyses except mercury were subsequently shipped to SGS North America, Inc. (SGS) in Orlando, Florida, for analysis. The samples were received at SGS-Orlando, FL on 08/27/2021 at 0.61C.

Sample ID	Lab ID	Analyses
MW-3	JD30293-1	VOCs, PAHs-SIM, Pesticides, PCBs, RCP-15 Metals, ETPH
FD-01	JD30293-2	
MW-2	JD30293-3	
MW-5	JD30293-4	
MW-6	JD30293-5	
MW-4	JD30293-6	
MW-1R	JD30293-7	
Trip Blank	JD29693-8	VOCs

Note that the date of collection for the trip blank sample is listed incorrectly as 08/04/2021 on the COC. The sampler confirmed that the laboratory prepared the trip blank on 08/04/2021 but it was shipped with the samples on 08/19/2021. Therefore, the sample date appears as 08/19/2021 on the data tables. No action is taken aside from this notation.

The data were evaluated using the Program Quality Assurance Project Plan Addendum (QAPPA) (dated July 2021) and the Program QAPP (dated May 2017). Both were prepared by KGSNE, LLC. The QAPPA appends and incorporates by reference the procedures and quality control measures detailed in the Program QAPP (May 2017). Therefore, site data for this SDG were evaluated using both the QAPPA of July 2021 and the Program QAPP dated May 2017. The Connecticut Department of Energy and Environmental Protection (CTDEEP) Reasonable Confidence Protocol (RCP) methods were used to perform all sample analyses. As a result, the

Nobis Group®
585 Middlesex Street
Lowell, MA 01851
T (978) 683-0891

relevant quality control (QC) spiking compounds and QC limits reported by the laboratory are generally more consistent with the RCP Methods than with those in the Program QAPP (e.g., many QC spiking compounds do not match those in the Program QAPP). Therefore, the RCP method QC limits were also used for data validation.

Compound/analyte lists reported by the laboratory for the VOC, PAH, Pesticide, PCB, Metals, and ETPH analyses were compared to the lists provided in Table 4 of QAPPA. All required compounds/analytes were analyzed by the laboratory except for the following inconsistencies:

PAHs: The compound 2-methylnaphthalene is included in Table 4 of QAPPA for PAH analysis but the laboratory report did not include this compound. The laboratory was contacted and analyses for 2-methylnaphthalene were subsequently submitted as SDG JD30293R. Results are included in this evaluation and no further action is taken.

Pesticides: Hexachlorobenzene is included in the pesticide list on Table 4 of QAPPA for pesticide analysis but is not reported in the pesticide fraction. The compound is also listed on Table 4 for the SVOC analysis but since only PAH analysis was requested, hexachlorobenzene was not reported in either the pesticide or PAH fraction. The laboratory was contacted and analyses for hexachlorobenzene were subsequently submitted as SDG JD30293T. Results are included in this evaluation and no further action is taken. In addition, delta-BHC is not included on Table 4 for pesticide analysis, but the laboratory analyzed and reported results for this compound in the pesticide fraction.

2. Holding Time and Sample Preservation Compliance

Receipt temperatures acceptable (≤ 6°), as specified in the QAPPA (July 2021). No action required.

VOCs: Holding time criteria (analyzed within 14 days) met.

PAHs: Holding time criteria (extracted within 7 days and analyzed within 40 days of extraction) met.

Pesticides: Holding time criteria (extracted within 7 days and analyzed within 40 days of extraction) met.

PCBs: Holding time criteria (extracted within 7 days and analyzed within 40 days of extraction) met.

Metals: Holding time criteria (analyzed within 28 days for Hg; within 180 days all others) met.

ETPH: Holding time criteria (extracted within 7 days and analyzed within 40 days of extraction) met.

3. Calibration Issues

Not assessed for S2AVM data review.

4. Lab and Field Blanks

VOCs: Results for VOC laboratory blank V4D4993-MB were non-detect. Results for the trip blank sample (JD30293-8) were non-detect. No blank actions required.

PAHs: Results for PAH laboratory blank OP35038A-MB1 (Run #1, analytical batch E4P2476) were non-detect. All sample results were reported from Run #1 and are associated with this method blank except for the naphthalene result in sample MW-6 (JD30293-5), which was reported from Run #2 (analytical batch E3P4474). Results for Run #2 of the method blank were all non-detect except for fluorene, which was detected at 1.76 ug/L. Since Run #2 was only used to report the naphthalene result in sample MW-6, action is not required. No blank actions were taken.

Pesticides: Results for pesticide laboratory blank OP35043-MB1 were non-detect. No blank actions required.

PCBs: Results for PCB laboratory blank OP35044-MB1 were non-detect. No blank actions required.

Metals: Results for metal and mercury laboratory blanks associated with the samples of this SDG are non-detect. No blank actions required.

ETPH: Results for ETPH laboratory blank OP35042-MB1 were non-detect. No blank actions required.

No equipment blanks are associated with the samples of this SDG. No action required.

5. Interference Check Sample (metals only)

Not assessed for S2AVM data review.

6. Surrogates

The Program QAPP (May 2017) was used to evaluate site data for surrogate recovery. Where available, the Program QAPP-specific surrogate recovery limits were used to evaluate surrogate recoveries in the samples. If no Program QAPP-specific recovery limits were available for a surrogate, the recovery limits specified in the RCP method were used.

VOCs: Percent surrogate recoveries for the samples were within the Program QAPP-specific and/or RCP method limits. No action is required.

PAHs: Percent surrogate recoveries were within the Program QAPP-specific and/or RCP method limits in all samples. No actions required.

Pesticides: Percent recoveries of the surrogates tetrachloro-m-xylene (TMX) and decachlorobiphenyl (DCB) are within the Program QAPP-specific and RCP method recovery limits of 30-150% on both analytical columns in all groundwater samples. No action is required.

PCBs: Percent recoveries of TMX and DCB are within the Program QAPP-specific and RCP method recovery limits of 30-150% in all samples. No action is required.

Metals: Not applicable for this analysis.

ETPH: Surrogate recovery limits for ETPH were not provided in the Program QAPP. Therefore, the RCP method recovery limits of 50-150% were used for data validation purposes.

Percent recovery of o-terphenyl wase below the RCP method recovery limits of 50-150% in sample FD-01 (JD30293-2) (46%). The non-detected result for diesel range organics (DRO) (C9-C36) in sample FD-01 is qualified as estimated (UJ) due to the low surrogate recovery.

7. Laboratory Control Samples

VOCs: Percent recoveries in the LCS analysis were all within the Program QAPP and lab-established limits within the RCP method limits of 70-130%. No action required.

PAHs: The Program QAPP indicates that percent recoveries for the LCS/LCSD analyses for PAHs should meet laboratory-established limits. Percent recoveries of all LCS/LCSD PAH compounds are within either the acceptable laboratory-established limits or the RCP method default limits of 40-140%. No action is required.

Pesticides: Percent recoveries in the LCS/LCSD analyses for pesticides are all within the Program QAPP and/or the RCP method default limits of 40-140%. No action required.

PCBs: Percent recoveries in the LCS/LCSD analyses for PCBs are within the Program QAPP recovery limits of 50-150%. No action is required.

Metals: Percent recoveries for the metals and mercury LCS analyses were within the Program QAPP and RCP method recovery limit range of 80-120%. No action is required.

ETPH: Recovery limits for ETPH were not provided in the Program QAPP. Therefore, the RCP default recovery limits of 60-120% were used for data validation purposes.

Percent recoveries for the ETPH LCS/LCSD analyses were within the RCP method recovery limits of 60-120%. No action required.

8. Matrix Spikes

Based on Region 1 guidelines, qualifications are applied to all field samples with similar matrix.

VOCs: MS/MSD analyses were performed on sample MW-6 (JD30293-5). Percent recoveries met the recovery limits in the Program QAPP (recovery limits were provided for 5 compounds). The laboratory reported percent recoveries for all VOCs analyzed. Therefore, the RCP method recovery limits of 70-130% and RPD of ≤ 30% were used to evaluate recoveries for compounds with no Program QAPP-specified recovery/RPD limits.

The recoveries met appropriate criteria as described above, for all spiked VOCs. The RPDs met all appropriate criteria. No action is required.

PAHs: MS/MSD analyses were performed on sample MW-6 (JD30293-5). MS/MSD recovery limits for two PAHs (acenaphthene and pyrene) are provided in the Program QAPP. The laboratory reported percent recoveries and RPDs for all PAHs analyzed. Therefore, MS/MSD recoveries for the remaining PAHs were evaluated using the RCP method limits. Therefore, the RCP method recovery limits of 40-140% and ≤ 20% RPD were used for data validation purposes, for compounds without recovery/RPD limits in the Program QAPP.

Percent recoveries for acenaphthene and pyrene are within the Program QAPP limits. Percent recoveries for the remaining PAH compounds are within the 40-140% RCP method limits in the MS/MSD analyses, except for naphthalene, with a %R of -52% in the MSD analysis. Naphthalene

was detected at > 4x the spiking level in the parent sample, and therefore, no action is required. All RPDs were below 20%.

Note that the MS/MSD analyses did not include 2-methylnaphthalene; however, the reporting of 2-methylnaphthalene included acceptable LCS/LCSD results. No action is taken.

Pesticides: MS/MSD analyses were performed on sample MW-6 (JD30293-5). MS/MSD recovery limits for 6 pesticide compounds were provided in the Program QAPP. The laboratory reported percent recovery and RPDs for all pesticide compounds reported. Therefore, MS/MSD recoveries for the remaining pesticide compounds were evaluated using the RCP method recovery limits of 30-150% and RPD limit of 30%.

The percent recovery for endrin (127%) exceeded the Program QAPP limits in the MSD analysis. Results for endrin were non-detect in all groundwater samples. The non-detect endrin results are accepted without qualification since the potential bias is high.

Percent recoveries for the remaining pesticide compounds were within the 30-150% RCP method limits except for the %Rs for alachlor in the MS and MSD analyses (205% and 157%, respectively) and for endosulfan sulfate and endrin ketone in the MS analysis (171% and 181%, respectively). Results for these compounds are non-detect in all groundwater samples. The non-detect results are accepted without qualification since the potential bias is high. The RPD limit was met for all pesticide compounds.

PCBs: MS/MSD analyses were performed on sample MW-6 (JD30293-5). The percent recoveries and RPDs met the Program QAPP limits for Aroclors 1016 and 1260 (29-135 %R and RPD ≤ 15% [Aroclor 1016] and ≤ 20% [Aroclor 1260]). No action is required.

It is noted that the percent recovery and RPDs for Aroclors 1016 and 1260 also met the RCP default recovery limits of 140-140%.

Metals: MS/MSD analyses were performed on sample MW-6 (JD30293-5). Percent recoveries of all metals (including mercury) are within the Program QAPP recovery limits of 75-125% and RPD of ≤ 20%. No action is required.

ETPH: MS/MSD analyses were performed on sample MW-6 (JD30293-5). The lab-established recovery and RPD limits for the MS/MSD analyses were consistent with the RCP method recovery limits range of 50-150% and RPD ≤ 30%. Therefore, the RCP method limits of 50-150% and 30% RPD were used for data validation purposes.

Percent recoveries for DRO (C9-C36) were within the limits of 50-150% and RPD ≤ 30%. DRO (C9-C36) was not detected in the parent sample. No action is required.

9. Laboratory Duplicates (metals only)

The lab elected to run an MSD for a duplicate analysis. The RPDs for all metals and mercury in the MS and MSD samples were below 20%. No action required.

10. Serial Dilution (metals only)

A serial dilution analysis was performed for metals on sample MW-6 (JD30293-5). The Program QAPP limit is %D < 10% for compounds detected at > 50x MDL.

As shown on the laboratory's Serial Dilution Summary Form for this SDG, all %D values for compounds with initial detections > 50x MDL were < 10%. No action is required.

No serial dilution was analyzed for mercury since mercury results were all non-detect in the samples.

11. Field Duplicate Precision

The field duplicate pair MW-3 / FD-01 is associated with the groundwater samples of this SDG. Acceptable field duplicate precision is an RPD of ≤ 30% for results > 5x RL and an absolute difference < 4x RL for results < 5x RL, based on the Region 1 EPA New England Environmental Data Review Supplement (September 2020).

Based on Region 1 guidelines, qualifications are applied to all field samples with similar matrix.

VOCs: Results for both samples of the field duplicate pair were non-detect for all VOCs. Therefore, no action is required.

PAHs: RPDs for all PAH compounds are below the 30% RPD limit for results > 5x RL. Absolute difference values for results < 5x RL meet the limit of < 4x RL. Therefore, precision criteria were met and no action is required.

Pesticides: Results for both samples of the field duplicate pair were non-detect for all pesticides except hexachlorobenzene. Precision criteria were met. No action is required.

PCBs: Results for both samples of the field duplicate pair were non-detect for all Aroclors. Therefore, no action is required.

Metals: RPDs met the 50% RPD limit for results > 5x RL for metals and mercury except for copper, lead, vanadium, and zinc, where the RPD exceeded 50% (zinc) or the absolute difference was > 4x RL (copper, lead, and vanadium). Positive and non-detected results for copper, lead, vanadium, and zinc are qualified as estimated (J/UJ) in all soil samples due to field duplicate imprecision. There were no non-detect results for zinc.

ETPH: Results for both samples of the field duplicate pair were non-detect for DRO (C9-C36). Therefore, no action is required.

12. Internal Standards

Not assessed for S2AVM data review.

13. Dual Column Precision

Dual column precision criteria are not included in the Program QAPP. The dual column percent difference (%D) limit for the RCP method for pesticides and PCBs is 40%.

The %D criterion is not applicable for the VOC, PAH, Metals, and ETPH analyses.

Pesticides: Only hexachlorobenzene was detected in groundwater samples. The %D criterion was met in all samples with hexachlorobenzene detections. No action is taken.

PCBs: There were no detected results for PCBs in the groundwater samples; therefore, dual column precision criteria do not apply.

14. Performance Evaluation Samples

Performance Evaluation (PE) samples were not included in this SDG.

15. Reporting Limits

Non-detect results for VOCs, PAHs, Pesticides, PCBs, Metals, and ETPH meet the Project Action Levels (PALs) for the project (QAPPA Table 4) except for the VOC 1,2-dibromo-3-chloropropane and the pesticide chlordane. The QAPP Table 4 lists a PAL of 1.1 ug/L for 1,2-dibromo-3-chloropropane. The reporting limit for this analyte is 2 ug/L in all groundwater samples. QAPPA Table 4 lists a PAL of 0.3 ug/L for chlordane. The RLs for chlordane ranged from 0.39 to 0.43 ug/L in the samples. Laboratory reporting limits for 1,2-dibromo-3-chloropropane and chlordane may not meet project objectives.

16. Other

Percent solids Reg 1/NE criteria (> 30%). Not applicable for groundwater samples.

Overall bias is considered indeterminate when cumulative nonconformances do not show a consistent bias or in cases of the presence of conflicting high and low biases.

Field Duplicate Evaluation

SDG: JD30293 VOCs

Analyte	Original Result ug/L	Qual	Duplicate Result ug/L	Qual	RPD ≤ 30%	Abs Diff	Comment
Sample ID	**MW-3**		**FD-01**				
	JD30293-1		**JD30293-2**				
1,1,1,2-Tetrachloroethane	1	U	1		0.00		OK both ND
1,1,1-Trichloroethane	1	U	1		0.00		OK both ND
1,1,2,2-Tetrachloroethane	1	U	1		0.00		OK both ND
1,1,2-Trichloro-1,2,2-trifluoroethane	5	U	5		0.00		OK both ND
1,1,2-Trichloroethane	1	U	1		0.00		OK both ND
1,1-Dichloroethane	1	U	1		0.00		OK both ND
1,1-Dichloroethene	1	U	1		0.00		OK both ND
1,1-Dichloropropene	1	U	1		0.00		OK both ND
1,2,3-Trichlorobenzene	1	U	1		0.00		OK both ND
1,2,3-Trichloropropane	2	U	2		0.00		OK both ND
1,2,4-Trichlorobenzene	1	U	1		0.00		OK both ND
1,2,4-Trimethylbenzene	2	U	2		0.00		OK both ND
1,2-Dibromo-3-chloropropane	2	U	2		0.00		OK both ND
1,2-Dibromoethane	1	U	1		0.00		OK both ND
1,2-Dichlorobenzene	1	U	1		0.00		OK both ND
1,2-Dichloroethane	1	U	1		0.00		OK both ND
1,2-Dichloropropane	1	U	1		0.00		OK both ND
1,3,5-Trimethylbenzene	2	U	2		0.00		OK both ND
1,3-Dichlorobenzene	1	U	1		0.00		OK both ND
1,3-Dichloropropane	1	U	1		0.00		OK both ND
1,4-Dichlorobenzene	1	U	1		0.00		OK both ND
2,2-Dichloropropane	1	U	1		0.00		OK both ND
2-Butanone	10	U	10		0.00		OK both ND
2-Chlorotoluene	2	U	2		0.00		OK both ND
2-Hexanone	5	U	5		0.00		OK both ND
4-Chlorotoluene	2	U	2		0.00		OK both ND
4-Isopropyltoluene	2	U	2		0.00		OK both ND
4-Methyl-2-pentanone	5	U	5		0.00		OK both ND
Acetone	10	U	10		0.00		OK both ND
Acrylonitrile	10	U	10		0.00		OK both ND
Benzene	0.5	U	0.5		0.00		OK both ND
Bromobenzene	1	U	1		0.00		OK both ND
Bromodichloromethane	1	U	1		0.00		OK both ND
Bromoform	1	U	1		0.00		OK both ND
Bromomethane	2	U	2		0.00		OK both ND
Carbon disulfide	2	U	2		0.00		OK both ND
Carbon tetrachloride	1	U	1		0.00		OK both ND
Chlorobenzene	1	U	1		0.00		OK both ND
Chloroethane	1	U	1		0.00		OK both ND
Chloroform	1	U	1		0.00		OK both ND
Chloromethane	1	U	1		0.00		OK both ND
cis-1,2-Dichloroethene	1	U	1		0.00		OK both ND
cis-1,3-Dichloropropene	1	U	1		0.00		OK both ND
Dibromochloromethane	1	U	1		0.00		OK both ND
Dibromomethane	1	U	1		0.00		OK both ND
Dichlorodifluoromethane	2	U	2		0.00		OK both ND
Ethylbenzene	1	U	1		0.00		OK both ND
Hexachlorobutadiene	2	U	2		0.00		OK both ND
Isopropylbenzene	1	U	1		0.00		OK both ND
m,p-Xylene	1	U	1		0.00		OK both ND
Methyl tert-butyl ether	1	U	1		0.00		OK both ND
Methylene chloride	2	U	2		0.00		OK both ND
Naphthalene	5	U	5		0.00		OK both ND
n-Butylbenzene	2	U	2		0.00		OK both ND
n-Propylbenzene	2	U	2		0.00		OK both ND
o-Xylene	1	U	1		0.00		OK both ND
sec-Butylbenzene	2	U	2		0.00		OK both ND
Styrene	1	U	1		0.00		OK both ND
tert-Butylbenzene	2	U	2		0.00		OK both ND
Tetrachloroethene	1	U	1		0.00		OK both ND
Tetrahydrofuran	10	U	10		0.00		OK both ND
Toluene	1	U	1		0.00		OK both ND
trans-1,2-Dichloroethene	1	U	1		0.00		OK both ND
trans-1,3-Dichloropropene	1	U	1		0.00		OK both ND
trans-1,4-Dichlorobutene	5	U	5		0.00		OK both ND
Trichloroethene	1	U	1		0.00		OK both ND
Trichlorofluoromethane	2	U	2		0.00		OK both ND
Vinyl chloride	1	U	1		0.00		OK both ND

Field Duplicate Evaluation

SDG: JD30293 PAH SIM

Analyte	Original Result ug/L	Qual	Duplicate Result ug/L	Qual	RPD ≤ 30%	Abs Diff	Comment
Sample ID	**MW-3**		**FD-01**				
	JD30293-1		**JD30293-2**				
2-Methylnaphthalene	33.7		27.2		-21.35		OK - RPD < 30%
Acenaphthene	0.074	U	0.071	U	-4.14		OK both ND
Acenaphthylene	0.074	U	0.071	U	-4.14		OK both ND
Anthracene	0.074	U	0.071	U	-4.14		OK both ND
Benzo(a)anthracene	0.037	U	0.036	U	-2.74		OK both ND
Benzo(a)pyrene	0.037	U	0.036	U	-2.74		OK both ND
Benzo(b)fluoranthene	0.037	U	0.0436		16.38	-0.01	OK abs diff < 4x RL
Benzo(g,h,i)perylene	0.074	U	0.071	U	-4.14		OK both ND
Benzo(k)fluoranthene	0.074	U	0.071	U	-4.14		OK both ND
Chrysene	0.074	U	0.071	U	-4.14		OK both ND
Dibenz(a,h)anthracene	0.074	U	0.071	U	-4.14		OK both ND
Fluoranthene	0.074	U	0.071	U	-4.14		OK both ND
Fluorene	0.074	U	0.071	U	-4.14		OK both ND
Indeno(1,2,3-cd)pyrene	0.074	U	0.071	U	-4.14		OK both ND
Naphthalene	0.074	U	0.071	U	-4.14		OK both ND
Phenanthrene	0.074	U	0.071	U	-4.14		OK both ND
Pyrene	0.074	U	0.071	U	-4.14		OK both ND

Field Duplicate Evaluation

SDG: JD30293 PEST/PCB

Analyte	Original Result ug/L	Qual	Duplicate Result ug/L	Qual	RPD ≤ 30%	Abs Diff	Comment
Sample ID	**MW-3**		**FD-01**				
	JD30293-1		**JD30293-2**				
4,4'-DDD	0.0082	U	0.0078	U	-5.00		OK both ND
4,4'-DDE	0.0082	U	0.0078	U	-5.00		OK both ND
4,4'-DDT	0.0082	U	0.0078	U	-5.00		OK both ND
Alachlor	0.082	U	0.078	U	-5.00		OK both ND
Aldrin	0.0082	U	0.0078	U	-5.00		OK both ND
alpha-BHC	0.0082	U	0.0078	U	-5.00		OK both ND
Aroclor 1016	0.41	U	0.39	U	-5.00		OK both ND
Aroclor 1221	0.41	U	0.39	U	-5.00		OK both ND
Aroclor 1232	0.41	U	0.39	U	-5.00		OK both ND
Aroclor 1242	0.41	U	0.39	U	-5.00		OK both ND
Aroclor 1248	0.41	U	0.39	U	-5.00		OK both ND
Aroclor 1254	0.41	U	0.39	U	-5.00		OK both ND
Aroclor 1260	0.41	U	0.39	U	-5.00		OK both ND
Aroclor 1262	0.41	U	0.39	U	-5.00		OK both ND
Aroclor 1268	0.41	U	0.39	U	-5.00		OK both ND
Aroclor, Total	0.41	U	0.39	U	-5.00		OK both ND
beta-BHC	0.0082	U	0.0078	U	-5.00		OK both ND
Chlordane	0.41	U	0.39	U	-5.00		OK both ND
delta-BHC	0.0082	U	0.0078	U	-5.00		OK both ND
Dieldrin	0.0082	U	0.0078	U	-5.00		OK both ND
Endosulfan I	0.0082	U	0.0078	U	-5.00		OK both ND
Endosulfan II	0.0082	U	0.0078	U	-5.00		OK both ND
Endosulfan Sulfate	0.0082	U	0.0078	U	-5.00		OK both ND
Endrin	0.0082	U	0.0078	U	-5.00		OK both ND
Endrin Aldehyde	0.0082	U	0.0078	U	-5.00		OK both ND
Endrin Ketone	0.0082	U	0.0078	U	-5.00		OK both ND
gamma-BHC (Lindane)	0.0082	U	0.0078	U	-5.00		OK both ND
Heptachlor	0.0082	U	0.0078	U	-5.00		OK both ND
Heptachlor Epoxide	0.0082	U	0.0078	U	-5.00		OK both ND
Hexachlorobenzene	0.012		0.012		0.00	0	OK - abs diff < 4x RL
Methoxychlor	0.016	U	0.016	U	0.00		OK both ND
Toxaphene	0.2	U	0.2	U	0.00		OK both ND

Field Duplicate Evaluation

SDG: JD30293 METALS

Analyte	Original Result ug/L	Qual	Duplicate Result ug/L	Qual	RPD ≤ 30%	Abs Diff	Comment
Sample ID	**MW-3**		**FD-01**				
	JD30293-1		**JD30293-2**				
Antimony	2	U	2	U	0.00		OK both ND
Arsenic	2.4		2	U	-18.18	-0.40	OK Abs diff < 4x RL
Barium	136		111		-20.24		OK RPD < 30%
Beryllium	2	U	2	U	0.00		OK both ND
Cadmium	2	U	2	U	0.00		OK both ND
Chromium	10.8		3.1		-110.79	-7.70	OK abs diff < 4x RL
Copper	39.7		8.2		-131.52	-31.50	**Abs diff > 4x RL (J/UJ)**
Lead	30.2		6.7		-127.37	-23.50	**Abs diff > 4x RL (J/UJ)**
Mercury	0.2	U	0.2	U	0.00		OK both ND
Nickel	3.9		2	U	-64.41	-1.9	OK Abs diff < 4x RL
Selenium	3.7		2	U	-59.65	-1.7	OK Abs diff < 4x RL
Silver	2	U	2	U	0.00		OK both ND
Thallium	2	U	2	U	0.00		OK both ND
Vanadium	13.6		3.8		-112.64	-9.80	**Abs diff > 4x RL (J/UJ)**
Zinc	75.8		29.3		-88.49		**RPD > 30% (J/UJ)**

Field Duplicate Evaluation

SDG: JD30293 ETPH

Analyte	Original Result mg/L	Qual	Duplicate Result mg/L	Qual	RPD ≤ 50%	Abs Diff	Comment
Sample ID	**MW-3**		**FD-01**				
	JD30293-1		**JD30293-2**				
Diesel Range Organics (C9-C36)	0.1	U	0.11	U	9.52		OK both ND

GW
TB

CHAIN OF CUSTODY

SGS

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSA-QAC-0023-02-FORM-Standard COC

Page 1 of 1

FED-EX Tracking # 9304 4370 9887
Bottle Order Control # TF-08321-146
SGS Quote #
SGS Job # JD30293

Client / Reporting Information

Company Name: Nobis
Street Address: 585 Middlesex St
City: Lowell State: MA Zip: 01851
Project Contact: JBrunelle@nobis-group.com E-mail:
Phone #: 603 508 0084
Sampler(s) Name(s): AE, MC Phone #: 516 674 4272

Project Information

Project Name: 43 Hempstead
Street: 43 Hempstead
City: New London State: CT
Project #: 93203.15
Client Purchase Order #:
Project Manager: Jeff Brunelle
Attention:

Billing Information (if different from Report to)
Company Name: Same
Street Address:
City State Zip

Requested Analysis

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Grab (G) Comp (C)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	VOCs	ETPH	PAH Sim	Pesticides	PCB Sc	RCP Metals + Hg						LAB USE ONLY
1	MW-3	•	8/18/21	1100	MC	G	GW	12	3		1		8				X	X	X	X	X	X						E39
2	FD-01	•		800	MC			12									X	X	X	X	X	X						A32
3	MW-2	•	8	1200	AE			12									X	X	X	X	X	X						V132
4	MW-5	•		1415	MC			12									X	X	X	X	X	X						5
5	MW-6	★		1410	AE			3x6	9		3		24				X	X	X	X	X	X						
6	MW-4	•	8/19/21	1015	MC			12	3		1		8				X	X	X	X	X	X						
7	MW-1R	•	8/19/21	1015	AE			12	1		1		1				X	X	X	X	X	X						
8	Trip Blank		8/4/21	800				2	2								X											

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [x] 10 Business Days
- [ ] 5 Business Days
- [ ] 3 Business Days* INITIAL ASESSMENT KGB
- [ ] 2 Business Days*
- [ ] 1 Business Day* LABEL VERIFICATION
- [ ] Other

All data available via Lablink

* Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria_____
- [ ] CT RCP Criteria_____
- [ ] State Forms
- [ ] EDD Format _____
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

MW-6 MS/MSD
6x 250mL NP Ext
★ 18x250mL NP Ext
SGS-ACCUTEST MARLBOR 8/19

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1 [signature]	8/19/21 1350	1 [signature]	2 [signature]	8/19/21 1730	2 FedEx
3 [signature]	8-20-21 10:00	3 [signature]	4		4
5		5			

Custody Seal # 02687 02688 02689 02690 — ☐ Intact ☐ Not intact

Preserved where applicable ☐ Absent — Therm. ID: — On ice ☒ — Cooler Temp. °C 3.1 4.1 CTP 3.8 4.3

JD30293: Chain of Custody
Page 1 of 2

CHAIN OF CUSTODY

SGS

2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480

FED-EX Tracking #:
Bottle Order Control #:
SGS Quote #:
SGS Job #: JD30293

Client / Reporting Information

Company Name: SGS North America Inc.
Street Address: 2235 Route 130
City: Dayton State: NJ Zip: 08810
Project Contact: Jadon.Schiller@sgs.com E-mail:
Phone #: 732-329-0200 Fax #:
Sampler(s) Name(s): MC Phone:

Project Information

Project Name: 43 Hempstead Street, New London, CT
Street:
City: State:
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analysis (see TEST CODE sheet): AGMS ,ASMS ,BAMS ,BEMS ,CDMS ,CRMS ,CUMS ,NIMS ,PBMS ,SBMS ,SEMS ,TLMS ,VMS ,ZNMS ,

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	AGMS ,ASMS ,BAMS ,BEMS ,CDMS ,CRMS ,CUMS ,NIMS ,PBMS ,SBMS ,SEMS ,TLMS ,VMS ,ZNMS ,	LAB USE ONLY
1	MW-3		8/18/21	11:00:00 AM	MC	AQ	1			1						X	
2	FD-01		8/18/21	8:00:00 AM	MC	AQ	1			1						X	
3	MW-2		8/18/21	12:00:00 PM	AE	AQ	1			1						X	
4	MW-5		8/18/21	2:15:00 PM	MC	AQ	1			1						X	
5	MW-6		8/18/21	2:10:00 PM	AE	AQ	1			1						X	
5D	MW-6		8/18/21	2:10:00 PM	AE	AQ	1			1						X	
5S	MW-6		8/18/21	2:10:00 PM	AE	AQ	1			1						X	
6	MW-4		8/19/21	10:15:00 AM	MC	AQ	1			1						X	
7	MW-1R		8/19/21	10:15:00 AM	AE	AQ	1			1						X	

Turnaround Time (Business days)

- [ ] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [X] other Due 9/2/2021

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [X] Other CTRCP

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Method 6020B
INITIAL ASSESSMENT
LABEL VERIFICATION

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	8/20/21 16:00	1 Fedex	2 Fedex	8/20/21	2 1450
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Intact / Not intact	Preserved where applicable / On Ice / Cooler Temp. 0.6

10.1 10

JD30293: Chain of Custody
Page 1 of 2
SGS Orlando, FL

Remedial Alternative Cost Estimates

APPENDIX F

Remedial Cost Estimate
Alternative SC-02
UST Investigation/Removals with Comprehensive Excavation and Off-Site Land Disposal
43 Hampstead Street
New London, Connecticut

Item #		Description	Units	Unit Rate	No. Units	Cost	Assumption
1	**Mobilization & Site Preparation**						
	1.001	Mobilize Equipment	LS	$ 5,000.00	1	$ 5,000.00	Excavator (1), Dozer (1), Loader (1)
	1.002	Erosion and Sediment Controls	LS	$ 2,000.00	1	$ 2,000.00	Perimeter silt fence, tracking pad stormdrain protection
	1.003	Temporary Facilities	LS	$ 5,000.00	1	$ 5,000.00	Restroom, potable water, storage tank, decon pad
	1.004	Remedial Action Approval Fee	LS	$ 3,300.00	1	$ 3,300.00	
					ITEM 1 SUBTOTAL =	**$ 15,300.00**	
2	**Contaminated Soil**						
	2.001	Pre-Dig Utility Clearance	LS	$ 500.00	1	$ 500.00	1 day round-trip to pre-mark site
	2.002	Waste Excavation	CY	$ 60.00	3,800	$ 228,000.00	Excavation to 4 feet below grade; Includes excavator, operator, laborer, and grade foreman
	2.003	UST cleanout & sludge disposal	LS	$ 12,000.00	1	$ 12,000.00	Assume two 5,000-gallon USTs with 100 gallons of non-hazardous sludge each
	2.004	UST Disposal	LS	$ 1,500.00	1	$ 1,500.00	
	2.005	Stockpile Management & Temp. Cover of Exc. Waste	CY	$ 5.00	4,560	$ 22,800.00	20% fluffing factor
	2.006	WasteCharacterization/Soil Profiling	EA	$ 2,000.00	19	$ 38,000.00	One sample per 250 cubic yards of disposal 24/48-hour TAT
	2.007	Transportation and Off-Site Soil Disposal	Ton	$ 140.00	5,700	$ 798,000.00	1.5 tons per cubic yard; loading, non-hazardous transport, tipping fee - out of state landfill due to lead and PCBs
	2.008	Confirmation Sampling - Sidewalls and Bottom	EA	$ 260.00	72	$ 18,590.00	Analysis for PAH, ETPH, Arsenic, Lead, PCB only 5-day TAT Every 25 feet of excavation perimeter and every 400 square feet of excavation bottom
	2.009	Common Backfill	CY	$ 25.00	4,560	$ 114,000.00	Placed, graded, and compacted (20% fluff factor)
	2.01	Dust Control	Day	$ 200.00	30	$ 6,000.00	Hose-based dust control
	2.011	Topsoil - 6" Thick	CY	$ 35.00	463	$ 16,203.70	Placed and graded
	2.012	Hydroseed w/HP Mulch	SF	$ 0.25	25,000	$ 6,250.00	No seeding, mulch placed for erosion management only
					ITEM 2 SUBTOTAL =	**$ 1,261,843.70**	
					DIRECT COST SUBTOTAL =	$ 1,261,843.70	
					10% CONTINGENCY =	$ 126,184.37	
					DIRECT AND CONTINGENCY COST SUBTOTAL =	**$ 1,388,028.07**	
					INDIRECT CAPITAL COST (Engineering, Construction Mgmt., Proj. Mgmt., Etc.) =	$ 208,204.21	15% of capital and contingency cost
					TOTAL CAPITAL COSTS =	**$ 1,596,232.29**	

Remedial Cost Estimate
Alternative SC-03
UST Investigation/Removals with Targeted Excavation, Off-Site Land Disposal, and Institutional Controls
43 Hampstead Street
New London, Connecticut

Item #	Description	Unit Rate	Units	No. Units	Cost	Assumption
1	Mobilize Equipment	$ 5,000.00	LS	1	$ 5,000.00	Excavator (1), Dozer (1), Loader (1)
	Erosion and Sediment Controls	$ 2,000.00	LS	1	$ 2,000.00	Perimeter silt fence, tracking pad stormdrain protection
	Temporary Facilities	$ 5,000.00	LS	1	$ 5,000.00	Restroom, potable water, storage tank, decon pad
	Remedial Action Approval Fee	$ 3,300.00	LS	1	$ 3,300.00	
					$ 15,300.00	
2	Pre-Dig Utility Clearance	$ 500.00	LS	1	$ 500.00	1 day round-trip to pre-mark site
	Waste Excavation	$ 60.00	CY	1,500	$ 90,000.00	Excavation to 4 feet below grade; Includes excavator, operator, laborer, and grade foreman
	UST cleanout & sludge disposal	$ 12,000.00	LS	1	$ 12,000.00	Assume two 5,000-gallon USTs with 100 gallons of non-hazardous sludge each
	UST Disposal	$ 1,500.00	LS	1	$ 1,500.00	
	Stockpile Management & Temp. Cover of Exc. Waste	$ 5.00	CY	1,800	$ 9,000.00	20% fluffing factor
	WasteCharacterization/Soil Profiling	$ 2,000.00	EA	8	$ 16,000.00	One sample per 250 cubic yards of disposal 24/48-hour TAT
	Transportation and Off-Site Soil Disposal	$ 140.00	Ton	2,250	$ 315,000.00	1.5 tons per cubic yard; loading, non-hazardous transport, tipping fee - out of state landfill due to lead and PCBs
	Confirmation Sampling - Sidewalls and Bottom	$ 260.00	EA	48	$ 12,350.00	Analysis for PAH, ETPH, Arsenic, Lead, PCB only 5-day TAT Every 25 feet of excavation perimeter and every 400 square feet of excavation bottom
	Common Backfill (excavations)	$ 25.00	CY	1,800	$ 45,000.00	Placed, graded, and compacted (20% fluff factor) of excavations to pre-existing grades
	Dust Control	$ 200.00	Day	20	$ 4,000.00	Hose-based dust control
	Topsoil - 6" Thick	$ 35.00	CY	185	$ 6,481.48	Placed and graded
	Hydroseed w/HP Mulch	$ 0.25	SF	10,000	$ 2,500.00	No seeding, mulch placed for erosion management only
					$ 514,331.48	
3	Class I Boundary Survey	$ 15,000.00	LS	1	$ 15,000.00	
	Recording Fee	$ 100.00	LS	1	$ 100.00	
					$ 15,100.00	
				DIRECT COST SUBTOTAL =	$ 544,731.48	
				10% CONTINGENCY =	$ 54,473.15	
				DIRECT AND CONTINGENCY COST SUBTOTAL =	**$ 599,204.63**	
				INDIRECT CAPITAL COST (Engineering, Construction Mgmt., Proj. Mgmt., Etc.) =	$ 89,880.69	15% of capital and contingency cost
				TOTAL CAPITAL COSTS =	**$ 689,085.32**	

ANNUAL OPERATIONS AND MAINTENANCE

Item #	Description	Unit Rate	Units	No. Units	Cost	Assumption
1	Biannual Mowing	$ 600.00	LS	0	$ -	Assumed part of regular park maintenance costs
	Maintanence	$ 1,000.00	LS	0	$ -	Assumed part of regular park maintenance costs
	Inspection Services	$ 1,500.00	LS	1	$ 1,500.00	Site inspection, inspection form and submittal
					$ -	
					$ 1,500.00	
			DIRECT COST SUBTOTAL =		$ 1,500.00	
			20% CONTINGENCY =		$ 300.00	
				DIRECT AND CONTINGENCY COST SUBTOTAL =	**$ 1,800.00**	
				INDIRECT CAPITAL COST (Engineering, Construction Mgmt., Proj. Mgmt., Etc.) =	$ 360.00	20% of capital and contingency cost
				TOTAL Annual O&M COSTS =	**$ 2,160.00**	

Present Value Analysis Capital and O&M Costs

Year	Capital + O&M	Total	Discount Rate[1]	Present Value
0	$ 689,085.32	$ 689,085.32	0%	$ 689,085.32
1	$ 2,160.00	$ 2,160.00	7%	$ 2,018.69
2	$ 2,160.00	$ 2,160.00	7%	$ 1,886.63
3	$ 2,160.00	$ 2,160.00	7%	$ 1,763.20
4	$ 2,160.00	$ 2,160.00	7%	$ 1,647.85
5	$ 2,160.00	$ 2,160.00	7%	$ 1,540.05
6	$ 2,160.00	$ 2,160.00	7%	$ 1,439.30
7	$ 2,160.00	$ 2,160.00	7%	$ 1,345.14
8	$ 2,160.00	$ 2,160.00	7%	$ 1,257.14
9	$ 2,160.00	$ 2,160.00	7%	$ 1,174.90
10	$ 2,160.00	$ 2,160.00	7%	$ 1,098.03
11	$ 2,160.00	$ 2,160.00	7%	$ 1,026.20
12	$ 2,160.00	$ 2,160.00	7%	$ 959.07
13	$ 2,160.00	$ 2,160.00	7%	$ 896.32
14	$ 2,160.00	$ 2,160.00	7%	$ 837.69
15	$ 2,160.00	$ 2,160.00	7%	$ 782.88
16	$ 2,160.00	$ 2,160.00	7%	$ 731.67
17	$ 2,160.00	$ 2,160.00	7%	$ 683.80
18	$ 2,160.00	$ 2,160.00	7%	$ 639.07
19	$ 2,160.00	$ 2,160.00	7%	$ 597.26
20	$ 2,160.00	$ 2,160.00	7%	$ 558.19
21	$ 2,160.00	$ 2,160.00	7%	$ 521.67
22	$ 2,160.00	$ 2,160.00	7%	$ 487.54
23	$ 2,160.00	$ 2,160.00	7%	$ 455.65
24	$ 2,160.00	$ 2,160.00	7%	$ 425.84
25	$ 2,160.00	$ 2,160.00	7%	$ 397.98
26	$ 2,160.00	$ 2,160.00	7%	$ 371.94
27	$ 2,160.00	$ 2,160.00	7%	$ 347.61
28	$ 2,160.00	$ 2,160.00	7%	$ 324.87
29	$ 2,160.00	$ 2,160.00	7%	$ 303.62
30	$ 2,160.00	$ 2,160.00	7%	$ 283.75
TOTAL				**$716,000**

Remedial Cost Estimate
Alternative SC-04
UST Investigation/Removals with Comprehensive Single-Layer Barrier System Installation, and Institutional Controls
43 Hampstead Street
New London, Connecticut

CAPITAL COSTS

Item #	Description	Unit Rate	Unit	No. Units	Cost	Assumption
1	Mobilize Equipment	$ 5,000.00	LS	1	$ 5,000.00	Excavator (1), Dozer (1), Loader (1)
	Erosion and Sediment Controls	$ 2,000.00	LS	1	$ 2,000.00	Perimeter silt fence, tracking pad stormdrain protection
	Temporary Facilities	$ 5,000.00	LS	1	$ 5,000.00	Restroom, potable water, storage tank, decon pad
	Remedial Action Approval Fee	$ 3,300.00	LS	1	$ 3,300.00	
				CLIN 1 SUBTOTAL =	**$ 15,300.00**	
2	Pre-Dig Utility Clearance	$ 500.00	LS	1	$ 500.00	1 day round-trip to pre-mark site
	Waste Excavation	$ 60.00	CY	500	$ 30,000.00	Excavation to 4 feet below grade; Includes excavator, operator, laborer, and grade foreman
	UST cleanout & sludge disposal	$ 12,000.00	LS	1	$ 12,000.00	Assume two 5,000-gallon USTs with 100 gallons of non-hazardous sludge each
	UST Disposal	$ 1,500.00	LS	1	$ 1,500.00	
	Stockpile Management & Temp. Cover of Exc. Waste	$ 5.00	CY	600	$ 3,000.00	20% fluffing factor
	WasteCharacterization/Soil Profiling	$ 2,000.00	EA	3	$ 6,000.00	One sample per 250 cubic yards of disposal 24/48-hour TAT
	Transportation and Off-Site Soil Disposal	$ 140.00	Ton	750	$ 105,000.00	1.5 tons per cubic yard; loading, non-hazardous transport, tipping fee - out of state landfill due to lead and PCBs
	Confirmation Sampling - Sidewalls and Bottom	$ 260.00	EA	12	$ 3,055.00	Analysis for PAH, ETPH, Arsenic, Lead, PCB only 5-day TAT Every 25 feet of excavation perimeter and every 400 square feet of excavation bottom
	Common Backfill 1.5' Thick	$ 25.00	CY	350	$ 8,750.00	Placed, graded, and compacted (20% fluff factor)
	Common Backfill 3.5' Thick	$ 25.00	CY	3,000	$ 75,000.00	Placed, graded, and compacted (20% fluff factor)
	Topsoil - 6" Thick	$ 35.00	CY	350	$ 12,250.00	Placed and graded
	Geotextile warning layer	$ 0.30	SF	25,000	$ 7,500.00	Orange non-woven geotextile
	Dust Control	$ 200.00	Day	20	$ 4,000.00	Hose-based dust control
	Hydroseed w/HP Mulch	$ 0.50	SF	25,000	$ 12,500.00	No seeding, mulch placed for erosion management only
				CLIN 2 SUBTOTAL =	**$ 281,055.00**	
3	Class I Boundary Survey	$ 15,000.00	LS	1	$ 15,000.00	
	Recording Fee	$ 100.00	LS	1	$ 100.00	
				CLIN 3 SUBTOTAL =	**$ 15,100.00**	
				DIRECT COST SUBTOTAL =	$ 311,455.00	
				20% CONTINGENCY =	$ 62,291.00	
				DIRECT AND CONTINGENCY COST SUBTOTAL =	**$ 373,746.00**	
				INDIRECT CAPITAL COST (Engineering, Construction Mgmt., Proj. Mgmt., Etc.) =	$ 74,749.20	20% of capital and contingency cost
				TOTAL CAPITAL COSTS =	**$ 448,495.20**	

ANNUAL OPERATIONS AND MAINTENANCE

Item #	Description	Unit Rate		No. Units	Cost	Assumption
1	Biannual Mowing	$ 600.00		0	$ -	Assumed part of regular park maintenance costs
	Maintanence	$ 1,000.00		0	$ -	Assumed part of regular park maintenance costs
	Inspection Services	$ 1,500.00		1	$ 1,500.00	Site inspection, inspection form and submittal
					$ -	
					$ 1,500.00	
				DIRECT COST SUBTOTAL =	$ 1,500.00	
				20% CONTINGENCY =	$ 300.00	
				DIRECT AND CONTINGENCY COST SUBTOTAL =	**$ 1,800.00**	
				INDIRECT CAPITAL COST (Engineering, Construction Mgmt., Proj. Mgmt., Etc.) =	$ 360.00	20% of capital and contingency cost
				TOTAL Annual O&M COSTS =	**$ 2,160.00**	

Present Value Analysis Capital and O&M Costs

Year	Capital + O&M	Total	Discount Rate[1]	Present Value
0	$ 448,495.20	$ 448,495.20	0%	$ 448,495.20
1	$ 2,160.00	$ 2,160.00	7%	$ 2,018.69
2	$ 2,160.00	$ 2,160.00	7%	$ 1,886.63
3	$ 2,160.00	$ 2,160.00	7%	$ 1,763.20
4	$ 2,160.00	$ 2,160.00	7%	$ 1,647.85
5	$ 2,160.00	$ 2,160.00	7%	$ 1,540.05
6	$ 2,160.00	$ 2,160.00	7%	$ 1,439.30
7	$ 2,160.00	$ 2,160.00	7%	$ 1,345.14
8	$ 2,160.00	$ 2,160.00	7%	$ 1,257.14
9	$ 2,160.00	$ 2,160.00	7%	$ 1,174.90
10	$ 2,160.00	$ 2,160.00	7%	$ 1,098.03
11	$ 2,160.00	$ 2,160.00	7%	$ 1,026.20
12	$ 2,160.00	$ 2,160.00	7%	$ 959.07
13	$ 2,160.00	$ 2,160.00	7%	$ 896.32
14	$ 2,160.00	$ 2,160.00	7%	$ 837.69
15	$ 2,160.00	$ 2,160.00	7%	$ 782.88
16	$ 2,160.00	$ 2,160.00	7%	$ 731.67
17	$ 2,160.00	$ 2,160.00	7%	$ 683.80
18	$ 2,160.00	$ 2,160.00	7%	$ 639.07
19	$ 2,160.00	$ 2,160.00	7%	$ 597.26
20	$ 2,160.00	$ 2,160.00	7%	$ 558.19
21	$ 2,160.00	$ 2,160.00	7%	$ 521.67
22	$ 2,160.00	$ 2,160.00	7%	$ 487.54
23	$ 2,160.00	$ 2,160.00	7%	$ 455.65
24	$ 2,160.00	$ 2,160.00	7%	$ 425.84
25	$ 2,160.00	$ 2,160.00	7%	$ 397.98
26	$ 2,160.00	$ 2,160.00	7%	$ 371.94
27	$ 2,160.00	$ 2,160.00	7%	$ 347.61
28	$ 2,160.00	$ 2,160.00	7%	$ 324.87
29	$ 2,160.00	$ 2,160.00	7%	$ 303.62
30	$ 2,160.00	$ 2,160.00	7%	$ 283.75
TOTAL				**$476,000**

Analysis of Brownfields Cleanup Alternatives

43 HEMPSTEAD ST,
NEW LONDON, CT 06320

Prepared for:

City of New London
Office of Economic Development & Planning
181 State Street
New London, CT 06320

November 14, 2021

Table of Contents

I. Introduction & Background 2

A. Site Location and Ownership 2

B. Previous Site Use(s) and any previous cleanup/remediation 3

C. Site Assessment Findings 3

D. Project Goals - Site Reuse Plan 5

II. Applicable Regulations and Cleanup Standards 5

A. Cleanup Oversight Responsibility 5

B. Laws & Regulations Applicable to the Cleanup 6

III. Evaluation of Cleanup Alternatives 7

A. Cleanup Alternatives Considered 7

B. Cost Estimate of Cleanup Alternatives 8

C. Recommended Cleanup Alternative 10

I. Introduction & Background

A. Site Location and Ownership

The Subject Property (hereinafter the "Site") is located at 43 Hempstead Street in New London, New London County, Connecticut and is identified by the City of New London as Tax Map F12 Block 168 Lot 10. According to the City of New London Assessor's records, the property is 0.60-acres and is currently owned by the City of New London. The site is zoned as R-3 (Multi-family Medium Density Residential Zone).

The Site is currently a vacant lot with no remaining buildings and minimal vegetation. Bordering the site to the northwest and northeast are residential properties. Hempstead Street borders the southwest edge of the property, and Home Street borders the southeast side. A stone retaining wall borders the site to the northeast, and lies beyond the property line of 43 Hempstead Street, on the property of 17 Home Street.

Delta Environmental Services, Inc. (Delta) compiled the following site occupancy:

Date of Occupation	Site Occupant
1884	Pequot Preserving Company (canning factory)
1891-1901	Vacant
1907	Contractor's stable and yard
1910-1917	New London Wash Silk Company
1918-1922	HKH Silk Company of New York
1926-1962	Troy Laundry
1930-1933	Kaybrook Manufacturing Company (pajama manufacturers)
1935-1964	Model Laundry, CTM Laundries
1937-1947	Goddesdianer Dress Manufacturers
1946-1947	Talent Troy and Woodworking Company
1946	Smalley Products Company (manufacturer of storm and screen windows) New London Insulation Company
1947-1951	Lord's Laundry
1948-1956	Paramount Robes, Inc. (clothing manufacturers)
1957-1988	Crescent Communications
1983-1988	Alpha Instrument Company
1977-1988	New London Instrument Company

B. Previous Site Use(s) and any previous cleanup/remediation

The site was first developed in the 1870's by the Pequot Preserving Company, who owned and operated a canning factory on the site until 1885. The site was then vacant until 1910, when it was bought by the New London Wash Silk company. This company was merged with a New York Silk Company in 1918, who operated on the site until 1922. Sanborn Fire Insurance Maps indicated that the silk companies dyed fabric on-site. It is possible that dyes and solvents may have been released into the soil and groundwater from these operations.

From 1926 to 1956, the site was owned by several laundry and small manufacturing companies. In 1961, the site was bought by Crescent Communications, an electronics manufacturing company. Crescent operated on the site until 1988. Shiloh Development Corporation purchased the land from Crescent in June of 1998, and all remaining buildings were demolished in 1999. The site has since been vacant.

C. Site Assessment Findings

Phase II Environmental Site Assessment, October 10, 2000

Delta conducted a Phase II ESA on August 8, 2000. Delta advanced eight soil borings to a maximum depth of 8 feet below ground surface (bgs). Soil samples were analyzed for volatile organic compounds (VOCs), total RCRA-8 metals, synthetic precipitate leachate procedure (SPLP) metals, and extractable total petroleum hydrocarbons (ETPH).

Laboratory analysis detected arsenic at 11 parts per million (ppm) in the sample collected at B-3 0-4 feet, above the Residential Direct Exposure Criteria (R-DEC) of 10 ppm. No other metals were detected at concentrations above their respective R-DEC criteria. VOCs and ETPH were not detected in the soil samples analyzed. Analysis of SPLP metals did not identify levels requiring remediation under the Connecticut Remediation Standard Regulations (RSRs). Additionally, Delta concluded that the Site is not defined as an "Establishment" pursuant to Connecticut Public Act 97-218 the "Transfer Act".

Supplemental Subsurface Investigation Report, June 22, 2001

Delta conducted a Supplemental Subsurface Investigation on May 9, 2001. Five soil boring sand three monitoring wells were installed to a maximum depth of 12 feet bgs. Eleven soil samples were collected for laboratory analysis of lead and arsenic. Lead was identified at concentrations ranging from 51 to 390 ppm, below the R-DEC of 500 ppm. Four samples identified arsenic concentrations above the DEC of 10 ppm. Five samples were additionally analyzed for SPLP arsenic. Results indicated arsenic detected in site soils is not likely to leach into groundwater.

Groundwater samples were collected from the three monitoring wells on May 18, 2001 using dedicated polyethylene bailers and analyzed for VOCs. VOCs were not detected in the three groundwater samples analyzed.

Draft Remedial Action Plan, January 25, 2002

Delta completed a Draft Remedial Action Plan (RAP) on January 25, 2002. The RAP identified arsenic as a contaminant of concern and identified three alternative methods to address contaminated soils including soil excavation and offsite disposal, installation of an in-situ soil treatment system, or capping the soil with a clean material to be implemented under Connecticut General Statues Section 22a-133y "voluntary Remediation Program". Delta recommended addressing arsenic in soil by capping the contaminated material with clean fill to render contaminates soil inaccessible because "the RSRs do not require remediation of "inaccessible soil", defined in Section 22a-133k-1 as contaminated soil (1) more than four feet below the ground surface; (2) more than two feet below a paved surface comprised of a minimum of three inches of bituminous concrete or concrete which two feet may include the depth of any material used as sub-base for the pavement; or (3) (A) beneath an existing building or (B) beneath another existing permanent structure provided written notice that such structure will be used to prevent human contact with such soil has been provided to the Commissioner" (Delta, 2002). Although Delta provided recommendations for remediation, KGSNE did not identify any evidence that any remedial actions were completed.

Phase I Site Investigation, August 10, 2021

KGSNE JV, LLC (KGSNE) has completed a Phase I Environmental Site Assessment (ESA) in August 10, 2021 as part of a Targeted Brownfields Assessment (TBA) agreement with EPA Region 1. A total of 4 Recognized Environmental Condition (RECs) were identified:

- REC-1: Industrial Historical Site Use

Historical records indicate that historical operations including clothing manufacturing with dye rooms, a dry cleaner, and electronics manufacturing. Delta identified chemical storage in buildings in 1997. These processes use chemicals and have to potential to release VOCs, heavy metals, and chlorinated solvents to site soils and groundwater.

- REC-2: EDR CT SPILLS Database

The Subject Property was identified in the CT SPILLS database due to a release of chemicals and petroleum reported on December 24, 1997. 100 gallons of mixed waste was released in an abandoned building on the property. No investigation or remediation was identified related to this spill.

- REC-3: Underground Storage Tanks

In the 1997 Site Inspection Update Delta observed a fill and vent pipe for an underground storage tank (UST) adjacent to the boiler room. The City Fire Marshall reported that an 8,000-gallon UST was installed in 1957 and a 5,000-gallon UST installed in 1939. Additionally, a UST was identified

on the southwestern portion of the property in the 1951 and 1954 Sanborn Maps. Both tree planting efforts by neighbors and Nova's GES conducted concurrently with site reconnaissance identified anomalies in the areas where USTs were historically identified.

- REC-4: Former Coal Use/Storage

The 1884 through 1954 Sanborn Maps identify the building fuel source coal. Use of coal and the potential presence of related coal ash represents a REC due to the possible presence of metals and polyaromatic hydrocarbons (PAHs) associated with coal ash.

D. Project Goals - Site Reuse Plan

The redevelopment plan for the Site will complement the City's development efforts and incorporate the neighborhood's vision is to provide a community space for children and the elderly, which is currently lacking in the area. Once the contamination is removed from this Site, FTNA's vision is to create a sensory and handicap-friendly, natural playground. The community members desire a track around this Site for the neighborhood to utilize for physical activity. The park will be fenced in to help with safety concerns of nearby traffic and will feature a "graffiti/mural wall" to showcase the community's artistic skills.

A community garden is envisioned for the Site by collaborating with FRESH, a New London food justice organization whose goal is to empower the youth, connect the community, and grow food to dismantle systemic oppression and build food sovereignty. As the Site is located near a federally designated flood plain, the new development will feature stormwater landscape installments to mitigate flooding in the area, promote natural irrigation options, and add to the aesthetic appeal. Recognition of local stakeholders involved in the project will be memorialized in plaques showcased in the park's pathways

II. Applicable Regulations and Cleanup Standards

A. Cleanup Oversight Responsibility

The cleanup of the Site will be overseen by a Licensed Environmental Professional (LEP) in coordination with the Connecticut Department of Energy and Environmental Protection (CT DEEP). The cleanup activities will be performed according to state and federal regulations.

Connecticut Transfer Act. The Connecticut Property Transfer Act (the Transfer Act) requires the disclosure of environmental conditions when ownership of certain real properties and/or businesses known as "Establishments" are transferred. An Establishment under the Transfer Act is real property or business at/from which 100 kilograms or more of hazardous waste was generated in one month, hazardous waste generated elsewhere was managed on-site, dry cleaning was conducted, furniture stripping was conducted, or vehicle body repair was conducted on or after May 1, 1967. When an Establishment is transferred, an Environmental Condition Assessment

Form (ECAF) and one of four Property Transfer Forms must be executed, and a copy of the form must be filed with the CTDEEP. When transferring an Establishment, the party signing the Property Transfer Form certification agrees to investigate the parcel and remediate pollution caused by any release of a hazardous wastes or substances from the Establishment. Based on historical records the Site was occupied by a dry cleaner from at least 1951 until approximately 1964; therefore, the property does not meet the definition of an Establishment.

B. Laws & Regulations Applicable to the Cleanup

Remediation Standard Regulations (RSRs)

At the moment, the site is not currently under a formal CT DEEP program, however, the RSRs would be the applicable remedial criteria for the Site under a federally funded remedial program administered by EPA. Therefore, the RSRs are used in this document for comparative purposes only. RSRs provide numeric criteria for soil and groundwater compliance depending on its proposed site usage. The RSRs apply to any action taken to remediate polluted soil, surface water, or a groundwater plume emanating from a release area. These only apply if the action is required by a regulation, statute, or order of the Commissioner or LEP actions required to be taken to the property transfer program and voluntary cleanup provisions. RSRs establish soil and water clean-up levels that protect human health and protect the environment in a manner that is consistent with the state's Water Quality Standards.

These statues are found under Section 22a-133k-2 of the RSRs, for soil which includes Direct Exposure Criteria (DEC) and Pollutant Mobility Criteria for GB groundwater classification (GB-PMC); RSR Section 22a-133k-3, for site groundwater, which includes Groundwater Volatilization Criteria (GWVC) and Surface Water Protection Criteria (SWPC).

Direct Exposure Criteria

The Direct Exposure Criteria (DEC) evaluate exposure based on mass-based concentrations of constituents within soil. They exist to protect human health from direct exposure in the form of contact or ingestion with soil contaminants. Two different standards exist based on the site use: Residential (R) and Industrial/Commercial (I/C). These criteria apply to soils within 15ft of the ground surface. In case the soil is rendered inaccessible, for instance in case an appropriate ELUR is recorded for the Site, the DEC criteria do not apply. Based on the site reuse plan, contaminants will be compared to R-DEC standards.

Residential Direct Exposure Criteria apply due to the proposed residential development. It does not, however, apply to the soils which will be inaccessible, as described below. An ELUR will have to be established to prevent disturbance of the protective building/pavement. An (ELUR) is an easement granted to the Commissioner of DEEP by the property owner that is recorded on the municipal land records. An ELUR places limitations on the property to minimize the risk of human exposure to pollutants and hazards to the environment by preventing certain types of uses or

activities. This is a tool that permits the remedial goals for a property to be dependent on the exposure risk associated with its use. There are two types of ELUR, soil and groundwater.

Residential Direct Exposure Criteria do not apply to **Inaccessible Soil:**

- More than four feet below the ground surface;
- More than two feet below a paved surface comprised of a minimum of three inches of bituminous concrete or concrete, which two feet may include the depth of any material used as sub-base for the pavement;
- Beneath existing buildings.

Groundwater Pollutant Mobility Criteria (PMC)

Pollutant Mobility Criteria are used to evaluate the potential for pollutants in the soil to leach into underlying groundwater in harmful concentrations. They apply to soils located above the seasonal low water table in areas of the state where groundwater is classified as GA or above the seasonal high water table if the site is located in a GB area or the remediation to the seasonal low water table in a GA area is not technically practicable or would not result in the permanent elimination of a source of pollution. The criteria vary depending on the groundwater classification at the site, such as GA (potable) or GB (non-potable), and do not apply to soils which have been rendered "environmentally isolated" with an appropriate ELUR is in place. Samples are tested and pollutant concentrations are conservatively calculated using the maximum potential leachable concentrations.

III. Evaluation of Cleanup Alternatives

A. Cleanup Alternatives Considered

1) No Action. The "No Action" alternative is the option of not conducting any cleanup alternatives at the Site.

2) Excavation and Off-site Disposal. Excavation can be done using an excavator for impacted fill and soils. The waste material would be brought to a state permitted treatment/recycling facility or a solid or hazardous waste disposal facility.

3) Partial Excavation & Rendering impacted soil inaccessible or environmentally isolated including ELUR. In combination with the establishment of an ELUR in the property records, the State regulations allow for contaminated soil to be rendered inaccessible or environmentally isolated and remain in place without endangering the public. This can be done in several ways depending on the site reuse plan. Soils will be considered inaccessible under a qualified engineered pavement of at least 3 inches depth and two feet of clean soil, or at least four feet of clean soil with the application of an ELUR in the property records preventing the removal of the pavement or

disturbance of the underlying soils. In the latter two cases, the contaminated surface soils will be removed and disposed of as described previously.

B. Cost Estimate of Cleanup Alternatives

Effectiveness

1) **No Action.** The "No Action" alternative is not an effective means of preventing exposure to the contamination at the site.

2) **Excavation and Off-site Disposal.** The removal of contaminated solid waste and soil is an effective way to permanently eliminate the source of and prevent further contamination.

3) **Partial Excavation & Rendering impacted soil inaccessible or environmentally isolated including ELUR.** A combination of soil excavation and application of ELURs can be an effective means of preventing exposure to human health or the environmental from the contamination at the Site and be a cost effective method to meet the goals of Site redevelopment.

Implementability

1) **No Action.** The "No Action" alternative requires no implementation.

2) **Excavation and Off-site Disposal.** This method will require removal, handling, disposal characterization, and transportation of contaminated soil and hazardous building materials to various facilities for disposal depending on the category. The site will need placement of clean backfill in areas of removal. This is a relatively easy method to implement because no specialized equipment is required, and several qualified contractors are available to do the work.

3) **Partial Excavation & Rendering impacted soil inaccessible or environmentally isolated including ELUR.** A combination of soil excavation and application of ELURs can be a relatively easy method to implement for the reasons described above.

Preliminary Cost Estimates

1) **No Action**. There will be no costs associated.

2) Excavation and Off-site Disposal. The costs are estimated at $1,228,745 as outlined in the table below.

Remedial Cost Estimate
UST Removals With 4' Excavation Throught
Off-Site Disposal/Landfill
43 Hampstead Street
New London, Connecticut

Item #		Description	Units	Unit Rate	No. Units	Cost	Assumption
1		**Mobilization & Site Preparation**					
	1.001	Mobilize Equipment	LS	$ 5,000.00	1	$ 5,000.00	Excavator (1), Dozer (1), Loader (1)
	1.002	Erosion and Sediment Controls	LS	$ 2,000.00	1	$ 2,000.00	Perimeter silt fence, tracking pad stormdrain protection
	1.003	Temporary Facilities	LS	$ 5,000.00	1	$ 5,000.00	Restroom, potable water, storage tank, decon pad
	1.004	Remedial Action Approval Fee	LS	$ 3,300.00	1	$ 3,300.00	
					ITEM 1 SUBTOTAL =	**$ 15,300.00**	
2		**Contaminated Soil**					
	2.001	Pre-Dig Utility Clearance	LS	$ 500.00	1	$ 500.00	1 day round-trip to pre-mark site
	2.002	Waste Excavation	CY	$ 60.00	2,900	$ 174,000.00	Excavation to 4 feet below grade; Includes excavator, operator, laborer, and grade foreman
	2.003	UST cleanout & sludge disposal	LS	$ 12,000.00	1	$ 12,000.00	Assume two 5,000-gallon USTs with 100 gallons of non-hazardous sludge each
	2.004	UST Disposal	LS	$ 1,500.00	1	$ 1,500.00	
	2.005	Stockpile Management & Temp. Cover of Exc. Waste	CY	$ 5.00	3,480	$ 17,400.00	20% fluffing factor
	2.006	WasteCharacterization/Soil Profiling	EA	$ 2,000.00	14	$ 28,000.00	One sample per 250 cubic yards of disposal 24/48-hour TAT
	2.007	Transportation and Off-Site Soil Disposal	Ton	$ 140.00	4,350	$ 609,000.00	1.5 tons per cubic yard; loading, non-hazardous transport, tipping fee - out of state landfill due to lead and PCBs
	2.008	Confirmation Sampling - Sidewalls and Bottom	EA	$ 260.00	72	$ 18,590.00	Analysis for PAH, ETPH, Arsenic, Lead, PCB only 5-day TAT Every 25 feet of excavation perimeter and every 400 square feet of excavation bottom
	2.009	Common Backfill	CY	$ 25.00	3,480	$ 87,000.00	Placed, graded, and compacted (20% fluff factor)
	2.01	Dust Control	Day	$ 200.00	30	$ 6,000.00	Hose-based dust control
	2.011	Topsoil - 6" Thick	CY	$ 35.00	360	$ 12,600.00	Placed and graded
	2.012	Hydroseed w/HP Mulch	SF	$ 0.25	19,000	$ 4,750.00	No seeding, mulch placed for erosion management only
					ITEM 2 SUBTOTAL =	**$ 971,340.00**	
					DIRECT COST SUBTOTAL =	$ 971,340.00	
					10% CONTINGENCY =	$ 97,134.00	
					DIRECT AND CONTINGENCY COST SUBTOTAL =	**$ 1,068,474.00**	
					INDIRECT CAPITAL COST (Engineering, Construction Mgmt., Proj. Mgmt., Etc.) =	$ 160,271.10	15% of capital and contingency cost
					TOTAL CAPITAL COSTS =	**$ 1,228,745.10**	

DRAFT

3) Partial Excavation & Rendering impacted soil inaccessible or environmentally isolated including ELUR. The costs are estimated at $495,250 as outlined in the table below.

Task No	Task	Unit	Number of Units	Unit Costs	Total	Notes
1	Enroll in CT Brownfields' Program	Anticipated Cost			$ 5,000	Enrolling gives City liability protection
2	Additional site assessment and remediation planning to mitigate direct exposure risks and facilitate construction of park	Anticipated Cost			$ 10,000	Remedial design assessment to supplement existing info to reduce soil excavation and disposal costs
3	Assess possible underground storage tanks	Anticipated Cost			$ 5,000	Test pits to locate potentially orphaned USTs
4	Remediation design/bid documents/bidding services to implement Task No.2 and 3	Anticipated Cost			$ 30,000	Includes remediation, civil engineering, and landscape architecture design work to construct park
5	Underground Storage Tank Removal	Anticipated Cost			$ 35,000	Remove two UST like anomalies identified during previous assessment
6	Excavate **4 feet** of contaminated soils and backfill Including demarcation fabric. Targeted excavation in less than half area of the site.	CY	1000	$ 130	$ 130,000	Actual size of excavation may be larger or smaller based on results of the recent Phase II ESA and Task 2 above.
7	Soil Disposal (1.5 tons per cubic yard)	Tons	1500	$ 90	$ 135,000	Actual size of excavation may be larger or smaller based on results of the recent Phase II ESA and Task 2 above.
8	3-inches of topsoil across site	CY	250	$ 60	$ 15,000	
9	Preparation and file for ELUR	Anticipated Cost			$ 15,000	
10	Verification Report	Anticipated Cost			$ 5,000	
11	Additional grading/site work/General Conditions and Contigency	20 of remedial costs (Tasks 5, 6, 7 & 8)			$ 63,000	
12	Remediation and Site Restoration Observation	15% of remedial costs (Tasks 5, 6, 7 & 8)			$ 47,250	
				Total	**$ 495,250**	

C. Recommended Cleanup Alternative

The recommended cleanup alternative is **Alternative #3 Partial Excavation & Rendering impacted soil inaccessible or environmentally isolated including ELUR**. Alternative #1: No Action cannot be recommended since it does not address risks posed by impacted soils identified at the Site. Alternative #2 is an effective method to mitigate potential exposures from polluted soil but the additional costs are not commensurate with the benefit to human health and the environmental that would be achieved compared to Alternative #3.