

PROJECT:

Lily Pond Park Improvements
17 North Liberty Street
36 Lily Street
Nantucket, MA 02554
Project No. 2026-LB-05

ADDENDUM NO. 1 07/02/2026

Posted: 07/02/2026 at 12:15PM EDT

Awarding Authority/Owner:

Nantucket Land Bank
22 Broad Street
Nantucket, MA 02554

Reference Contract Documents (drawings and specifications) dated 06/24/2026

The attention of Bidders submitting proposals for the above subject project is called to the following addendum to the specifications and drawings. The items set forth herein, whether of omission, addition, substitution, or clarifications are all to be included in and form a part of the proposal submitted.

THE NUMBER OF THIS ADDENDUM (1) MUST BE ENTERED IN THE APPROPRIATE SPACE "B" PROVIDED AFTER THE WORD "NUMBERS" OF THE CONTRACT FORM ENTITLED "FORM FOR GENERAL BID," AND IN SPACE "B" OF THE "FORM FOR SUB-BID."

BID DOCUMENT MODIFICATIONS ARE AS FOLLOWS.

Specifications:

- Replace the following technical sections in their entirety. (See attached)
00 10 00 Bid Form
50 00 40 Appendix E_Soil and Groundwater Management Plan

Clarifications:**GENERAL****RFI #1 - Type: General**

Section ref: Bidding Section 00 02 00, 00 10 00, 01 10 00

Question:

Please clarify date of completion. *00 02 00-1...The work must be completed in full by May 27, 2027 *00 10 00 - 11...The Bidder hereby agrees to commence work on or before the date to be specified in written "Notice to Proceed" of the Owner, and to fully complete the project within 90 consecutive calendar days thereafter. *01 10 00 -4...Substantial Completion: April 15, 2028. All Phase 2 work including project closeout May 15th 2028.

Response: (Prime Designer)

The Project must be fully completed (Phase 1 and 2) by May 15, 2028, as outlined in Section 01 10 00.

RFI #2 - Type: General

Drawing ref: N/A

Section ref: N/A

Other ref: N/A

Question:

Are there any MBE or WBE percentage goal requirements for this project?

Response: (Prime Designer)

There are no MBE/WBE requirements. The Nantucket Land Bank is an Affirmative Action/Equal Opportunity Employer and encourages bids which include qualified MBE/WBE firms.

RFI #3 - Type: General

Drawing ref: N/A

Section ref: N/A

Other ref: N/A

Question:

Please provide clarification regarding the completion time for this project. The bid forms state 90 calendar days, however the invitation to bid states that the anticipated project schedule is September 2026 with a completion date of May 27, 2027. However, this is then contradicted by stating that this schedule includes the Summer Shutdown period from June 2027 thru September 2027.

Response: (Prime Designer)

The Project must be fully completed (Phase 1 and 2) by May 15, 2028, as outlined in Section 01 10 00.

All other of the portions of the Contract Documents remain **unchanged**. Please be reminded to acknowledge this Addendum on the bid forms.

ATTACHMENTS

00 10 00 Bid Form

50 00 40 Appendix E_Soil and Groundwater Management Plan

--- End of Addendum No. 1 ---

SECTION 00 10 00

BID FORMS

Bidder's Name _____

To the Nantucket Land Bank, herein called the Owner, for the Construction of **Lily Pond Park Improvements**, in Nantucket, Massachusetts.

The Undersigned, as bidder, herein referred to as the Contractor, declares as follows:

- (1) The only parties interested in this BID as Principals are named herein;
- (2) this BID is made without collusion with any other person, firm, or corporation;
- (3) no officer, agent, or employee of the Owner is directly or indirectly interested in this BID;
- (4) The Contractor has carefully examined the site of the proposed Work and fully informed and satisfied himself as to the conditions there existing, the character and requirements of the proposed Work, the difficulties attendant upon its execution and the accuracy of all estimated quantities stated in this BID, and the Contractor has carefully read the Specifications and examined the Drawings, and annexed proposed AGREEMENT and the Specifications and other Contract Documents therein referred to and knows and understands the terms and provisions thereof;
- (5) The Contractor understands that information relative to subsurface and other conditions, natural phenomena, existing pipes and other structures (surface and/or subsurface) has been furnished only for their information and convenience without any warranty or guarantee, expressed or implied, that the subsurface and/or other conditions, natural phenomena, existing pipes and other structures (surface and/or subsurface) actually encountered will be the same as those shown on the Drawings or in any of the other Contract Documents.
- (6) and the Contractor understands that the quantities of work tabulated in this BID or indicated on the Drawings or in the Specifications or other Contract Documents are only approximate and are subject to increase or decrease as deemed necessary by the Engineer; and the Contractor agrees that, if this BID is accepted the Contractor will contract with the Owner, as provided in the copy of the Contract Documents deposited in the office of Owner or online, this BID form being part of said Contract Documents, and that the Contractor will perform all the work and furnish all the materials and equipment, and provide all labor, services, plant, machinery, apparatus, appliances, tools, supplies and all other necessities required by the Contract Documents in the manner and within the time therein prescribed and according to the requirements of the Engineer as therein set forth.

(Note: Bid items must include all work as described in the Contract Documents and bid form and as indicated in the Drawings, specifications, soil and groundwater management plan and all permitting requirements. The bid items include all materials, labor, equipment and other incidental items and overhead items required to complete the work for each item summarized below. The BID must be made clearly and in ink or typed; the total cost for each bid item should be written in both words and figures. In the case of discrepancy, the value in words shall govern.)

1.1 BID ITEMS

A. BASE BID

1. BID ITEM #1: PHASE 1 MOBILIZATION
 - a. Mobilization for PHASE 1 as indicated in the specifications and Drawings, including but not limited to: storage of materials during construction and police details and coordination with Town for road work.
2. BID ITEM #2: DEMOLITION AND EROSION CONTROL (ALL PHASES)
 - a. All work required for all phases, for the duration of the project, to complete the bid items as indicated in the Drawings and relevant specifications, including but not limited to the following:
 - 1) Site preparation, clearing and demolition.
 - 2) Installation of temporary construction fencing.
 - 3) Installation and maintenance of erosion and sedimentation controls and mud mats.
 - 4) Tree and vegetation protection
3. BID ITEM #3: REMOVE AND DISPOSE ALL EXPORTED SOIL AND SEDIMENT (ALL PHASES)
 - a. Off-site/off island disposal of exported soil at a registered facility as described in the specifications and Soil and Groundwater Management Plan (Appendix A) for the duration of the project to complete all bid items as indicated in the Drawings and relevant specifications.
4. BID ITEM #4: DEWATERING (ALL PHASES)
 - a. Temporary dewatering for the duration of the project as indicated in the Drawings, specification 31 23 19-DEWATERING, the Soil and Groundwater Management Plan, and as required per the Dewatering Remediation General Permit (DRGP), including discharge water sampling.
5. BID ITEM #5: RESTORATION AREA 1A
 - a. Work as indicated in the Drawings and relevant specifications, including but not limited to the following:
 - 1) Earthwork and grading.
 - 2) Drainage structures and piping.
 - 3) Overflow spillways.
 - 4) Outlet structures and piping
 - 5) Temporary stabilization

6. BID ITEM #6: RESTORATION AREA 1A BOARDWALK
 - a. All work and material for the completed construction of the boardwalks and overlooks within Restoration Area 1A , includes geotechnical services and final piling design as indicated in the Drawings and relevant specifications.
7. BID ITEM #7: NEW GATEWAY
 - a. Work as indicated in the Drawings and relevant specifications, including but not limited to the following:
 - 1) Site work and earthwork
 - 2) Rough and fine grading.
 - 3) Wetland replication
 - 4) Installation of seating, flagstone and fence
 - 5) Installation of site furnishings, amenities and signage.
 - 6) Temporary stabilization
8. BID ITEM #8: RESTORATION AREA 1B
 - a. Work as indicated in the Drawings and including but not limited to the following:
 - 1) Earthwork and grading.
 - 2) Temporary stabilization
9. BID ITEM #9: RESTORATION AREA 1B BOARDWALK
 - a. All work and material for the completed construction of the boardwalks and overlooks within Restoration Area 1B , includes geotechnical services and final piling design as indicated in the Drawings and relevant specifications.
10. BID ITEM #10: IRRIGATION WELL AND DISTRIBUTION SYSTEM
 - a. Permitting, design and installation of irrigation well and distribution system including well, pump, valves and piping as indicated in the Drawings.
 - b. This item will need to meet Build America, Buy America (BABA) requirements.
11. BID ITEM #11: RESTORATION AREA 1A PLANTING AND SEEDING
 - a. Work as indicated in the Drawings and specifications 32 91 19-LANDSCAPE GRADING, 32 92 10-SEEDING, 32 93 00-PLANTS for Restoration Area 1A work including but not limited to the following areas:
12. BID ITEM #12: RESTORATION AREA 1B PLANTING AND SEEDING
 - a. Work as indicated in the Drawings and specifications 32 91 19-LANDSCAPE GRADING, 32 92 10-SEEDING, 32 93 00-PLANTS for Restoration Area 1B work.
13. BID ITEM #13: NEW GATEWAY PLANTING AND SEEDING
 - a. Work as indicated in the Drawings and specifications 32 91 19-LANDSCAPE GRADING, 32 92 10-SEEDING, 32 93 00-PLANTS for New Gateway.
14. BID ITEM #14: PHASE 1 PLANT AND LANDSCAPE MAINTENANCE
 - a. All work and material to complete sixteen (16) months of plant and landscape maintenance for all plant and seed material in Phase 1 as indicated in the Drawings and specifications 32 92 10-SEEDING and 32 93 00-PLANTS, work including but not limited to the following areas:
 - 1) Restoration Area 1A planting and seeding.
 - 2) Restoration Area 1B planting and seeding.

- 3) New Gateway.
- 15. BID ITEM #15: PHASE 1 SHUTDOWN AND TEMPORARY ACCESS
 - a. Public to be allowed access to park to the maximum extent practicable during the summer shutdown months.
 - b. No equipment or material to remain on site
 - c. Work as indicated in the Drawings and relevant specifications to allow public access of the park during the summer months, including but not limited to the following:
 - 1) Demobilization.
 - 2) Restoration of areas beyond Phase 1 areas disturbed during Phase 1 construction.
 - 3) Provide temporary paths and accessible temporary boardwalk ramps for public access.
 - 4) Temporary stabilization, loaming and temporary seeding, as necessary.
 - 5) Adjustments or additions to temporary construction fence.
 - 6) Temporary signage.
 - 7) Monitoring / maintenance of all erosion and sediment controls.
- 16. BID ITEM #16: PHASE 2 MOBILIZATION
 - a. Mobilization for PHASE 2 as indicated in the specifications and Drawings, including but not limited to: storage of materials during construction and police details and coordination with Town for road work.
- 17. BID ITEM #17: RESTORATION AREA 2
 - a. Work as indicated in the Drawings and relevant specifications, including but not limited to the following:
 - 1) Site work
 - 2) Earthwork and grading.
 - 3) Installation of proprietary water quality devices, drainage pipes and structures.
 - 4) Construction of constructed stormwater wetland and overflow spillways.
 - 5) Construction of vegetated retaining wall.
 - 6) Construction of new parking area.
 - 7) Construction of a parking lot bioretention.
 - 8) Construction of new granite curb and brick walkways.
 - 9) Installation of site furnishings, amenities and signage.
 - 10) Installation of reinforced turf.
 - 11) Temporary stabilization
 - b. This item will need to meet Build America, Buy America (BABA) requirements.
- 18. BID ITEM #18: RESTORATION AREA 2 BOARDWALK
 - a. All work and material for the completed construction of the boardwalks and overlooks within Restoration Area 2 , includes geotechnical services and final piling design as indicated in the Drawings and relevant specifications.
 - b. This item will need to meet Build America, Buy America (BABA) requirements.
- 19. BID ITEM #19: RESTORATION AREA 3
 - a. Work as indicated in the Drawings and relevant specifications, including but not limited to the following:
 - 1) Site work
 - 2) Earthwork and grading.
 - 3) Installation of proprietary water quality devices, drainage pipes and structures.

- 4) Construction of overflow spillway.
 - 5) Modification to granite curb and brick walkway entrance.
 - 6) Installation of site furnishings, amenities and signage.
 - 7) Installation of reinforced turf.
 - 8) Temporary stabilization
20. BID ITEM #20: RESTORATION AREA 3 BOARDWALK
- a. All work and material for the completed construction of the boardwalks and overlooks within Restoration Area 3 , includes geotechnical services and final piling design as indicated in the Drawings and relevant specifications.
21. BID ITEM #21: NORTH LIBERTY STREET DRAINAGE
- a. Work as indicated in the Drawings and relevant specifications, including but not limited to the following:
 - 1) Site preparation and demo.
 - 2) Installation of drainage structures, pipes and proprietary water quality device.
 - 3) New pavement/pavement patch.
 - 4) Police detail and coordination with Town for road work.
22. BID ITEM #22: RESTORATION AREA 2 PLANTING AND SEEDING
- a. Work as indicated in the Drawings and specifications 32 91 19-LANDSCAPE GRADING, 32 92 10-SEEDING, and 32 93 00-PLANTS for Restoration Area 2.
23. BID ITEM #23: RESTORATION AREA 3 PLANTING AND SEEDING
- a. Work as indicated in the Drawings and specifications 32 91 19-LANDSCAPE GRADING, 32 92 10-SEEDING, and 32 93 00-PLANTS for Restoration Area 3.
24. BID ITEM #24: WESCO PLACE BUFFER PLANTING AND SEEDING
- a. Work as indicated in the Drawings and specifications 32 91 19-LANDSCAPE GRADING, 32 92 10-SEEDING, and 32 93 00-PLANTS for Wesco Place Buffer.
25. BID ITEM #25: PHASE 2 PLANT AND LANDSCAPE MAINTENANCE
- a. All work and material to complete sixteen (16) months of plant and landscape maintenance for all plant and seed material in Phase 1 as indicated in the Drawings and specifications 32 92 10-SEEDING and 32 93 00-PLANTS, work including but not limited to the following areas:
 - 1) Restoration Area 2
 - 2) Restoration Area 3
 - 3) Wesco Place Buffer
26. BID ITEM #26: POST CONSTRUCTION INVASIVE SPECIES MANAGEMENT (YEAR 1)
- a. All work and material to complete one year post construction invasive species management following acceptance of Phase 1 as indicated in the Drawings and specification 32 92 20-INVASIVE SPECIES REMOVAL. This includes the entire park boundary to the property lines beyond the project limit of work.
27. BID ITEM #27: POST CONSTRUCTION INVASIVE SPECIES MANAGEMENT (YEAR 2)

- a. All work and material to complete one additional year post construction invasive species management following Year 1 management, as indicated in the Drawings and specification 32 92 20-INVASIVE SPECIES REMOVAL. This includes the entire park boundary to the property lines beyond the project limit of work.

28. BID ITEM #28: PROJECT CLOSEOUT

- a. Work as indicated in the Drawings and relevant specification, including but not limited to the following:
- 1) As-built Survey
 - 2) Permit closeout

1.2 BID SCHEDULE

A. BASE BID

BID ITEM #	DESCRIPTION	UNIT	QTY	UNIT BID PRICE	BID ITEM TOTAL
1	PHASE 1 MOBILIZATION	LUMP SUM	1		
TOTAL IN WORDS:					
2	DEMOLITION AND EROSION CONTROL	LUMP SUM	1		
	TOTAL IN WORDS:				
3	REMOVE AND DISPOSE ALL EXPORTED SOIL AND SEDIMENT	CUBIC YARDS	3,500		
TOTAL IN WORDS:					
4	DEWATERING	LUMP SUM	1		
TOTAL IN WORDS:					
5	RESTORATION AREA 1A	LUMP SUM	1		
TOTAL IN WORDS:					
6	RESTORATION AREA 1A BOADWALK	LINEAR FEET	676		

BID ITEM #	DESCRIPTION	UNIT	QTY	UNIT BID PRICE	BID ITEM TOTAL
TOTAL IN WORDS:					
7	NEW GATEWAY	LUMP SUM	1		
TOTAL IN WORDS:					
8	RESTORATION AREA 1B	LUMP SUM	1		
TOTAL IN WORDS:					
9	RESTORATION AREA 1B BOARDWALK	LINEAR FEET	933		
TOTAL IN WORDS:					
10	IRRIGATION WELL AND TUBING	LUMP SUM	1		
TOTAL IN WORDS:					
11	RESTORATION AREA 1A - PLANTING AND SEEDING	LUMP SUM	1		
TOTAL IN WORDS:					
12	RESTORATION AREA 1B - PLANTING AND SEEDING	LUMP SUM	1		
TOTAL IN WORDS:					
13	NEW GATEWAY PLANTING AND SEEDING	LUMP SUM	1		
TOTAL IN WORDS:					

BID ITEM #	DESCRIPTION	UNIT	QTY	UNIT BID PRICE	BID ITEM TOTAL
14	PHASE 1 PLANT AND LANDSCAPE MAINTENANCE	LUMP SUM	1		
TOTAL IN WORDS:					
15	PHASE 1 SHUTDOWN AND TEMPORARY ACCESS	LUMP SUM	1		
TOTAL IN WORDS:					
16	PHASE 2 MOBILIZATION	LUMP SUM	1		
TOTAL IN WORDS:					
17	RESTORATION AREA 2	LUMP SUM	1		
TOTAL IN WORDS:					
18	RESTORATION AREA 2 BOARDWALK	LINEAR FEET	187		
TOTAL IN WORDS:					
19	RESTORATION AREA 3	LUMP SUM	1		
TOTAL IN WORDS:					
20	RESTORATION AREA 3 BOARDWALK	LINEAR FEET	203		
TOTAL IN WORDS:					
21	NORTH LIBERTY DRAINAGE	LUMP SUM	1		
TOTAL IN WORDS:					

BID ITEM #	DESCRIPTION	UNIT	QTY	UNIT BID PRICE	BID ITEM TOTAL
22	RESTORATION AREA 2 PLANTING AND SEEDING	LUMP SUM	1		
TOTAL IN WORDS:					
23	RESTORATION AREA 3 PLANTING AND SEEDING	LUMP SUM	1		
TOTAL IN WORDS:					
24	WESCO PLACE BUFFER PLANTING AND SEEDING	LUMP SUM	1		
TOTAL IN WORDS:					
25	PHASE 2 PLANT AND LANDSCAPE MAINTENANCE	LUMP SUM	1		
TOTAL IN WORDS:					
26	POST CONSTRUCTION INVASIVE SPECIES MANAGEMENT (YEAR 1)	HOURS	70		
TOTAL IN WORDS:					
27	POST CONSTRUCTION INVASIVE SPECIES MANAGEMENT (YEAR 1)	HOURS	40		
TOTAL IN WORDS:					
28	PROJECT CLOSEOUT	LUMP SUM	1		
TOTAL IN WORDS:					

BID ITEM #	DESCRIPTION	UNIT	QTY	UNIT BID PRICE	BID ITEM TOTAL
TOTAL BASE BID:					

THE TOTAL BASE BID AMOUNT, based upon the quantities of materials and labor estimated by the Bidder, **(total of Bid Items No. 1 through 28, inclusive)**, as computed by the Bidder is:

Total Bid amount in words: _____

Bid amount in numbers: \$ _____

Name of general bidder: _____

Address of bidder: _____

Telephone number of bidder: _____

Email of bidder: _____

Bidder's signature: _____

Date: _____

NOTE: If the bidder is a corporation, indicate state of incorporation under signature and affix corporate seal; if a partnership, give full names and residential addresses of all partners; if an individual, give residential address if different from business address.

FORM OF GENERAL BID

Bid of _____ (hereinafter called "Bidder")*

() a corporation, organized and existing under the laws of the state of

() a partnership

() a joint venture

() an individual
doing business as _____

To the Land Bank, Massachusetts (hereinafter called "Owner").

Gentlemen:

A) The undersigned Bidder, in compliance with your invitation for bids for the project known as _____, having examined the plans and specifications and related documents and the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposes to furnish all labor, materials, and supplies, and to construct the project in accordance with the contract documents and the plans and specifications within the time set forth below, and at the prices stated below. These prices are to cover all expenses incurred in performing the work required under the contract documents, of which this bid is a part.

The Bidder hereby agrees to commence work on or before the date to be specified in written "Notice to Proceed" of the Owner, and to fully complete the project (Phase 1 and 2) within 90 consecutive calendar days thereafter by May 15, 2028 as outlined in Section 01 10 00. The Bidder further agrees to pay as liquidated damages the sum of one thousand (\$1,000) Dollars for each consecutive calendar day thereafter that the work is not complete as provided in the contract.

*Specify corporation, partnership or individual as applicable

B) Bidder acknowledges receipt of and this bid includes the following addenda:

No. _____ Dated: _____

No. _____ Dated: _____

No. _____ Dated: _____

No. _____ Dated: _____

C) The Bidder agrees to perform the bid work described in the specifications and shown on the plans for the following contract price: \$ _____.

The above unit prices shall include all labor, materials, bailing, shoring, removal, overhead, profit, insurance, etc., to cover the finished work of the several kinds called for.

The Bidder understands that all bids for this project are subject to the applicable bidding laws of the Commonwealth of Massachusetts, including General Laws Chapter 149 and Chapter 30, Section 39M, as amended.

The Bidder understands that the Owner reserves the right to reject any or all bids and to waive any informalities in the bidding.

The Bidder agrees that this bid shall be good and may not be withdrawn for a period of 30 days, Saturdays, Sundays and legal holidays excluded, after the opening of bids.

Within 10 days of receipt of the written notice of acceptance of this bid, the Bidder will execute the formal Agreement set forth in Section 00200 AGREEMENT.

Bid security is submitted in the sum of five percent (5%) of the total bid in accordance with the conditions of Section 00050 INSTRUCTIONS TO BIDDERS. The bid security may become the property of the Owner in the event the contract and bond are not executed within the time set forth above.

The selected Contractor shall furnish a payment bond in an amount at least equal to fifty percent (50%) of the contract price in accordance with Section 00300 PAYMENT BOND, and as stipulated in the contract.

The undersigned offers the following information as evidence of his qualifications to perform the work as bid upon according to all the requirements of the plans and specifications.

1. Have been in business under present name for ____ years.
2. The names and addresses of all persons interested in the bid (if made by a partnership or corporation) as principals, are as follows:

(attach supplementary list if necessary)

Bank reference _____

(Name)

(Bank)

(Address)

(Telephone No.)

Pursuant to G.L. c.62C, §49A, I certify hereby in writing, under penalties of perjury, that the within named Bidder/Contractor has complied with all laws of the commonwealth relating to taxes, reporting of employees and contractors, and withholding and remitting of child support.

The undersigned Bidder hereby certifies under penalties of perjury, as follows: (1) that he/she is able to furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work; (2) that all employees to be employed at the worksite will have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration at the time the employee begins work and who shall furnish documentation of successful completion of said course with the first certified payroll report for each employee; and (3) that all employees to be employed in the work subject to this bid have successfully completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration.

The undersigned certifies under penalties of perjury that this bid is in all respects bona fide, fair and made without collusion or fraud with any other person. As used in this paragraph the word “person” shall mean any natural person, joint venture, partnership, corporation or other business or legal entity.

The undersigned bidder hereby certifies, under pains and penalties of perjury, that the foregoing bid is based upon the payment to laborers to be employed on the project of wages in an amount no less than the applicable prevailing wage rates established for the project by the Massachusetts Department of Labor and Workforce Development. The undersigned bidder agrees to indemnify the awarding authority for, from and against any loss, expense, damages, actions or claims, including any expense incurred in connection with any delay or stoppage of the project work arising out of or as a result of (1) the failure of the said bid to be based upon the payment of the said applicable prevailing wage rates or (2) the failure of the bidder, if selected as the contractor, to pay laborers employed on the project the said applicable prevailing wage rates.

Respectfully submitted:

Date: _____

By: _____
(Signature)

(Type Name of Bidder)

(Title)

(Business Address)

(City and State)

(Telephone Number)

SOIL & GROUNDWATER MANAGEMENT PLAN

Lily Pond Park
Lily Pond Park Restoration
Nantucket, MA

Prepared for:
The Nantucket Land Bank
22 Broad Street
Nantucket, MA 02554

Prepared by:



July 2026

Soil & Groundwater Management Plan
Lily Pond Park
Lily Pond Park Restoration
Nantucket, MA

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ATTACHMENTS

FIGURES

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- Figure 2 – Aerial Map
- Figure 3 – Sampling Location Plan
- Figure 4 – Children’s Beach Overview – Watershed Overview

TABLES

- Table 1 – Sediment Sample Data
- Table 2 – Sediment VOC Sample Data
- Table 3 – DRGP Groundwater Sample Data

APPENDIX A – HISTORICAL AERIALS, SANBORN MAPS, AND TOPOGRAPHIC MAPS

APPENDIX B – ANALYTICAL REPORTS

APPENDIX C – LILY POND DEWATERING PLAN REVIEW

1.0 INTRODUCTION

The Horsley Witten Group, Inc. (HW) has prepared this Soil and Groundwater Management Plan (SGMP) on behalf of the Nantucket Land Bank, summarizing procedures for the management of excess soil/sediment and groundwater during construction activities planned at Lily Pond Park, located off North Liberty Street in Nantucket, MA (the Site). The entire parcel consists of approximately 6.15 acres and is utilized by residents for passive recreation and birdwatching along a wooden boardwalk. Portions of the Park are improved by actively maintained turf areas and parking areas.

A pre-characterization program was completed within Lily Pond Park to evaluate soil/sediment and groundwater conditions and potential management options, as outlined in this SGMP. Soil and sediment contamination at the Site is associated with anthropogenic sources (i.e. historic disposal of coal ash and discharge of untreated stormwater runoff). Based on the analytical data collected through the pre-characterization program, this SGMP identifies management options for sediment/soil and groundwater during the construction phase of the proposed project. The Lily Pond Park Restoration Plan includes improvements to on-site stormwater management, reconstruction of existing wetlands and wetland restoration, and construction of a perimeter pathway and boardwalk. The proposed activities will include excavation and re-grading of areas within the Site to facilitate stormwater retention and treatment, while removing areas of invasive vegetation.

Regional location and aerial site plans depicting the parcel boundaries, sampling locations, and stormwater management infrastructure are included as Figures 1 through 4, attached. Analytical results associated with the pre-characterization program are included as Tables 1 through 3.

2.0 SITE BACKGROUND

The Site consists of approximately 6.15-acres and is owned by the Town of Nantucket. Lily Pond Park consists of primarily wetlands and wooded areas and is located within a residential area of Nantucket between North Liberty, West Chester, and Lily Streets. The Site receives untreated stormwater discharge from the surrounding residential neighborhoods, through a series of conveyances and outfalls (Figures 3 and 4). There are no buildings at the Subject Property, but there is a gravel parking lot located on North Liberty Street and three additional entrance trails.

2.1 Historical Site Description

In support of preliminary project design and permitting, HW conducted a desktop evaluation and site reconnaissance in 2022 and again in 2025. The purpose of these activities was to identify readily identifiable environmental concerns that would potentially impact construction period activities (i.e. soil/sediment and groundwater management). According to the Nantucket Historical Association, while Lily Pond Park is currently comprised of vegetated wetlands, it was previously a pond with an outlet that ran north toward Nantucket Harbor. An earthen dam was built in the late 1600's at the outlet to power a water mill. The pond was reportedly drained circa 1720 after a small gutter was dug allowing the water to spill over the dam.

Based on historical aerials and topographic maps reviewed during the desktop evaluation, the Site and surrounding areas were historically utilized for primarily residential purposes. Sanborn fire insurance maps from 1887 through 1962, historic aerials from 1938 through 2018, and topographic maps from 1889 through 2021 are included in Appendix A and depict historic use and development patterns of the Site and surrounding areas.

The desktop evaluation did not reveal any reported releases of oil or hazardous materials with the potential to impact the Site. Elevated concentrations of contaminants present in sediment at the Site are attributed to discharge of untreated stormwater runoff from impervious areas in the surrounding watershed that have been occurring over the last 100+ years.

3.0 PRE-CHARACTERIZATION SAMPLING

To support final project permitting and design, a pre-characterization program was initiated in March 2025. The program also served to inform future soil/sediment and groundwater management activities and identify potential disposal facilities for excess material anticipated to be generated during construction. The pre-characterization program included the following activities:

- Collection of 11 composite samples, comprised of 33 discrete soil and sediment borings within the proposed wetland and park redesign areas;
- Classification of soils and sediment encountered throughout soil borings;
- Field screening of soil and sediment samples via photoionization detector (PID);
- Collection of a groundwater sample from the wetland area;
- Laboratory analysis for key parameters to support project permitting, excess soil/sediment management alternatives, and dewatering management

In support of the Project, HW has submitted soil/sediment reuse/disposal packages to the Marilyn's Landing Commercial Reuse Area (MLCRA) and Bourne Intergrated Solid Waste Management (ISWM) facilities. Facility review is ongoing at the time of this SGMP, and an addendum to the SGMP will be issued once facility approvals have been issued.

3.1 Soil/Sediment Pre-Characterization Sampling

3.1.1 March 2025 Limited Subsurface Investigation

On March 5, 2025, HW conducted a limited subsurface investigation (LSI) to characterize soil/sediment sampling at Lily Pond within the proposed wetland and park redesign areas. Based on the current conceptual design, approximately 3,110 cubic yards of excess material will be generated during construction, and a total of eleven (11) composite samples were collected across the project area. Each sample was a composite of three discrete grab samples that were collected with a hand auger, for a total of thirty-three (33) discrete grab samples. Sample depths were determined based on proposed excavation depths and ranged from 1 to 3 feet below ground surface (bgs). Sampling locations targeted existing stormwater discharge locations on site, as well as areas that are proposed for excavation. The proposed redesign of Lily Pond Park includes both areas of excavation and areas of filling to produce sufficient grading for

stormwater flow and wetland maintenance. As such, HW's sampling plan prioritized areas and depths to be cut/excavated to characterize materials that may be removed during construction.

Consistent with MassDEP Disposal policies, each composite sample was created from three grab samples. Leaf litter, roots, rocks, and phragmite rhizomes were removed from samples to the best of HW's ability. Many sampling locations were located in areas of dense phragmite growth.

Discrete samples were field screened for Total Organic Volatiles (TOV) with a Photoionization Detector (PID). TOV readings ranged from <0.01 parts per million (ppm) to 0.4 ppm. To ensure representative samples were collected, field sampling equipment was decontaminated between samples/quadrants by scrubbing/scraping all loose materials before washing the equipment in a solution of Alconox and water. The equipment was then rinsed with potable water followed by a final rinse with deionized water.

The number and location of samples collected during the LSI were consistent with off-site (i.e. Landfill and MassDEP) sampling requirements, which require a minimum sample to volume frequency of one sample per 500 cubic yards. Based on the proposed design, approximately 3,110 cubic yards of excess soil is anticipated to be generated.

To determine if sediment at the Subject Property is appropriate for landfill disposal in Massachusetts, samples were collected consistent with the document titled *Dredged Sediment Reuse or Disposal - February 15, 1995 (COMM-94-007)* and *Reuse and Disposal of Contaminated Soil at Massachusetts Landfills (COMM-97-001)*, prepared by MassDEP. Additionally, sediments were also collected consistent with the 314 CMR 9.07(2)(b)(6) 401 Water Quality Certification (WQC). Sediment samples were analyzed for the COMM-94 and 401 WQC requirements by a Massachusetts certified laboratory under chain of custody protocols for the following:

- MCP 14 Metals (antimony, arsenic, barium, beryllium, cadmium, chromium, lead, mercury, nickel, selenium, silver, thallium, vanadium, and zinc);
- 401 WQC Metals (arsenic, cadmium, chromium, copper, lead, mercury, nickel, zinc);
- Polychlorinated biphenyls congeners (PCBs);
- Semi-volatile organic compounds (SVOCs);
- Polycyclic aromatic hydrocarbons (PAHs);
- Total petroleum hydrocarbons (TPH);
- Extractable petroleum hydrocarbons (EPH);
- Volatile Organic Compounds (VOCs);
- Pesticides;
- Herbicides;
- pH;
- Conductivity;
- Flash Point;
- Reactivity;
- Grain Size (Sieve);
- Total Organic Carbon (TOC); and
- Percent Water.

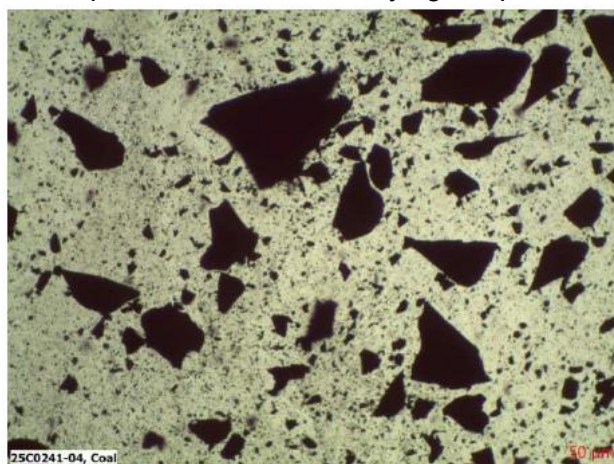
3.1.2 March 2025 Soil/Sediment Sampling Results

Laboratory analytical results from the March 2025 sampling event are summarized below. Results are tabulated in Tables 1 and 2, along with a complete laboratory analytical report. Figure 2 depicts sampling locations, stormwater outfall locations, and wetland resource area delineation. Laboratory analytical results are compared to MassDEP 401 WQC criteria, Massachusetts Contingency Plan (MCP) Reportable Concentrations (RCS-1), and facility acceptance criteria to identify limiting constraints on re-use and/or disposal.

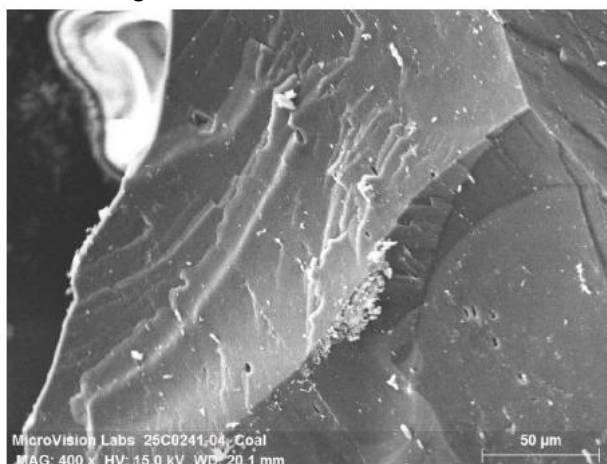
SVOCs

Various SVOCs, including 2-methylnaphthalene, acenaphthene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, and phenanthrene) were detected above the MCP RCS-1 standards in sample 2025-SS-4, which was collected in the central wetland portion of the Site. Select SVOCs that fall under the classification of polycyclic aromatic hydrocarbons (PAHs) were also detected above RCS-1 values in sample 2025-SS-5 and are discussed in further detail below. SVOC concentrations in the remaining samples were either below laboratory reporting limits or below the RCS-1 values. Tabulated analytical data is included in the attached Table 1 along with a complete laboratory analytical report.

Based on the presence of SVOCs and PAHs, select samples were analyzed for Microscopic Analysis for coal and coal ash via microscopy techniques including Scanning Electron Microscopy (SEM), Energy Dispersive X-Ray Spectroscopy (EDS), and Polarized Light Microscopy (PLM) (Polarized Light Microscopy). These techniques provide high-resolution elemental analysis and evaluation of samples. Below are images from the microscopy analysis of sample 2025-SS-04, identifying the presence of coal fragments.



PLM Image



SEM Image

Sample 2025-SS-4 also was determined by the laboratory to have high levels of organics and percent water, contributing to elevated reporting limits/high bias for SVOCs. In contrast, the remaining 10 samples featured relatively low concentrations of SVOCs, indicating that the

elevated concentrations of SVOCs in sample 2025-SS-4 are anomalous and can be attributed to the presence of coal fragments in the sample.

EPH/PAHs

PAHs are a group of SVOCs that are persistent in the environment and are formed during the incomplete burning of organic materials like coal, oil, gas and other materials. Automotive emissions and industrial emissions are common sources of PAHs, and PAHs are commonly found in areas that receive stormwater runoff, as PAHs that settle on impervious surfaces then migrate with stormwater and subsequently bind to organic material in the environment. The organic sediment present in vegetated wetlands will work as a filter, leading to areas of concentrated PAHs. Benzo(a)pyrene and dibenzo(a,h)anthracene were detected at concentrations above the MCP RCS-1 value in two samples, 2025-SS-4 and 2025-SS-5. These samples are located in the centralized area of wetlands at the Subject Property, east/northeast of the current boardwalk. The total PAHs in sample 2025-SS-4 were 813 mg/kg, above the COMM-97 landfill disposal value of 100 milligrams per kilogram (mg/kg). The reported concentration of benzo(a)pyrene (49.8 mg/kg) also exceeded the MLCRA acceptance criteria of 30 mg/kg..

As discussed above, the presence of coal fragments in sample 2025-SS-4 is identified as the contributing factor to the different analytical results, where the EPH/PAHs analysis, conducted on a discrete aliquot of the composite sample, indicated much lower concentrations of PAHs. Tabulated sediment analytical data is included in the attached Table 1.

Metals

Various MCP 14 metals, including arsenic, barium, chromium, lead, mercury, nickel, vanadium, and zinc were detected in the samples above the laboratory reporting limits. Concentrations of lead in six of the eleven sediment samples (2025-SS-2, 2025-SS-4, 2025-SS -5, 2025-SS -6, 2025-SS -7) exceeded the RCS-1 value of 200 mg/kg, with a maximum concentration of 358 mg/kg. The presence of lead above the RCS-1 value is mainly associated with sediment in the central and southeastern portions of the Site. To supplement the 2025 sediment sampling, additional samples were collected in 2026 and are discussed below.

Seven of the eleven samples indicated a theoretical toxicity characteristic leaching procedure (TCLP) value at or above the 20x rule for lead (100 mg/kg or greater). The samples containing the highest concentrations of lead (2025-SS-5 at 344 mg/kg and 2025-SS-6 at 358 mg/kg) were analyzed for TCLP lead. TCLP analysis indicated results of 0.45 mg/L and 0.18 mg/L respectively, below the 5.0 mg/L TCLP limit.

For 401 WQC permitting purposes, samples were oven-dried prior to analysis to achieve lower detection limits for seven metals (arsenic, cadmium, chromium, lead, mercury, nickel, and zinc). In addition to the lead exceedances described above, zinc was detected above the RCS-1 value in sample 2025-SS-2, located in the central portion of the Site, west of the current boardwalk. All detections of metals were below the COMM-94 / COMM-97 landfill disposal values. Tabulated sediment analytical data is included in the attached Table 1.

TPH

TPH was detected in seven of the sediment samples above the laboratory reporting limit. Elevated TPH is consistent with an area receiving stormwater runoff from impervious areas, due to emissions and leaks from vehicles, and from the constituents of asphalt pavement. All detections were below RCS-1 values and the COMM-94 / COMM-97 landfill disposal values.

PCB Congeners

PCB congeners are a group of 209 distinct chemical compounds within the PCB family, with the most common commercial mixtures of the congeners often referred to as Aroclors. PCB congeners were detected above laboratory reporting limit in three samples, 2025-SS-2, 2025-SS-3, and 2025-SS-6. All detections were below the RCS-1 value and the COMM-94 / COMM-97 acceptance criteria for total PCBs (2 mg/kg).

Pesticides and Herbicides

Low levels of pesticides and herbicides were detected in all eleven of the sediment samples. Low levels of pesticides and herbicides are common in areas that receive stormwater runoff from impervious surfaces in areas where commercially available products are applied. All detections were below the RCS-1 values and COMM-94 / COMM-97 landfill acceptance criteria.

VOCs

Acetone was detected at concentrations above laboratory reporting limits in eight sediment samples. Acetone is a naturally occurring chemical found in the environment, plants, trees, and as a result of forest fires / burning of organic materials. 2-Butanone was also detected in one sediment sample and can also be present in the environment from natural sources. The reported detections of VOCs were all at levels below the applicable RCS-1 values, and the total VOCs were below the COMM-94 / COMM-97 landfill acceptance criteria. Tabulated VOC analytical data is included in Table 2.

Grain Size and Total Organic Carbon (TOC)

Sediment across the project area primarily consisted of smaller percentages of mineral deposits intermixed with muck-like material composed of decaying organic materials. Wetland vegetation, primarily consisting of phragmites, has established a dense and extensive layer of rhizomes. In general, materials observed during the sample event consisted of organic silt and silty sand with varying amounts of leaf litter and stumps and roots. Small amounts of rubble fill and/or ash was observed in sediment samples collected in the southwestern portion of the Subject Property. According to the grain size analysis, sediments were primarily organic silty sand. Grain size analysis is included in the laboratory analytical report in Appendix B. Total organic carbon ranged from 1.4% to 12.4% which is anticipated due to the high observed organics in the wetland and ponded areas of the Subject Property.

3.1.3 May 2026 Supplemental Sediment Sampling

To satisfy MLCRA facility requirements, HW conducted supplemental sampling on May 27, 2026. A total of 10 composite samples were collected to replicate the March 2025 sampling locations. Each sample was a composite of three discrete grab samples that were collected with a hand auger, for a total of thirty (30) discrete grab samples.

The samples were submitted to a Massachusetts certified laboratory for analysis of fecal coliform, and in three locations, lead analysis to confirm the results of the 2025 sediment sampling discussed above, and, if the results were above 100 mg/kg, provide TCLP analysis.

3.1.4 May 2026 Soil/Sediment Sampling Results

Laboratory analytical results from the May 2026 sampling event are summarized below. Results are provided in Table 1, and a complete laboratory analytical report is provided in Appendix B. Figure 3 depicts the May 2026 sampling locations (which replicated the 2025 sample locations).

Fecal coliform

Fecal coliform was detected in nine out of the ten composite samples collected during the May sampling event. In three locations (SS-2, SS-3, and SS-5), the most probable number of colonies per gram (MPN/gram) exceeded the 1,000 MPN/g facility acceptance criteria at MLCRA. The highest detections were observed in locations where the sediment was submerged under standing water. The presence of fecal coliform is attributed to wildlife that inhabit Lily Pond Park and discharge of untreated stormwater discharge from the surrounding watershed. Tabulated fecal coliform analytical data is included in Table 1. Fecal coliform are not included in the COMM-94 / COMM-97 landfill acceptance criteria.

Lead

Lead was identified in the three composite samples collected in May 2026. Two of the detections were below the RCS-1 standard of 200. The remaining sample, collected immediately west of the boardwalk at location 2025-SS-2, contained lead concentrations at 3,830 mg/kg. PLM analysis did not indicate the presence of coal ash, wood ash, or other anomalous debris. Tabulated lead analytical data is included in Table 1.

3.2 Groundwater Sampling

3.2.1 May 2026 Groundwater Sampling

Groundwater is present at shallow depths in the existing wetland area, with lower lying portions of the Site typically inundated/submerged. During construction, dewatering of the project site is anticipated to be necessary, as referenced in the Project drawings and specifications.

HW collected a groundwater sampled from the Site in May 2026 to:

- Determine if COCs identified in soil/sediment at the Site have impacted groundwater;
- Support pre-construction permitting;
- Inform construction period groundwater management activities; and,

- Supplement the groundwater management information provided in the Project drawings and specifications.

Groundwater samples were collected from a temporary well point installed in the central portion of the project area on May 26, 2026 (Figure 3). Groundwater samples were submitted for laboratory analysis of parameters established in Table 1 of the *National Pollutant Discharge Elimination System (NPDES) General Permit for Dewatering and Remediation Activity Discharges (DRGP)* in Massachusetts (MAG910000), including:

- 1,4-Dioxane
- Ammonia
- Chloride
- TRC
- Hexavalent Chromium
- Trivalent Chromium
- Cyanide
- Ethylene Dibromide (EDB)
- Ethanol
- Hardness
- Polychlorinated Biphenyls (PCB)
- Phenol
- RGP Total Metals (Ag, As, Cd, Cu, Fe, Hg, Pb, Ni, Sb, Se, Zn)
- RGP Dissolved Metals (Ag, As, Cd, Cu, Fe, Hg, Pb, Ni, Sb, Se, Zn)
- RGP Semi-Volatile Organic Compounds (SVOCs)
- RGP Volatile Organics
- Total Petroleum Hydrocarbon (TPH)
- Total Suspended Solids (TSS)
- Total Nitrogen¹

The DRGP is applicable to dewatering discharges where site conditions indicate the potential for COCs to be present in groundwater, and where the receiving water body is a water of the United States².

For Lily Pond, it is anticipated that dewatered groundwater will be discharged to Nantucket Harbor via the municipal stormwater system, as discussed in Section 3.3.2. The Town of Nantucket Stormwater Division has provided an initial review of the construction documents and dewatering plan review, included in Appendix C.

3.2.2 Groundwater Sampling Results

There were no detections of VOCs, SVOCs/PAHs, Phenols, TPH, or PCBs in the groundwater sample. In the unfiltered groundwater sample, total iron was detected at 18,700 micrograms per

¹ Nantucket Harbor has a Total Maximum Daily Load (TMDL) for nitrogen.

² HW had provided the previously collected soil/sediment quality data to EPA Region 1 for review, and EPA indicated that construction period dewatering discharges would be subject to the DRGP.

liter (ug/L) and lead was detected at 4.11 ug/L. In the field filtered sample, dissolved iron was detected at 18,900 ug/l, and lead was below the laboratory reporting limit of 2 ug/L. Total Suspended Solids (TSS) were detected at 33 milligrams per liter (mg/L).

As summarized in Table 3, the concentrations of iron and TSS exceeded the NPDES DRGP limitations and are therefore anticipated to require treatment prior to discharge. A complete laboratory analytical report is included in Appendix B. Additional information on groundwater management is provided in Section 4.2, below, and in Appendix C.

3.3 Pre-Characterization Sampling Conclusions

3.3.1 Soil/Sediment

The 2025 and 2026 sediment sampling activities confirmed the presence of several metals, petroleum related constituents (i.e. TPH and PAHs), PCB congeners, herbicides, and pesticides at relatively low concentrations across the Site. In two sampling locations (2025-SS-2 and 2025-SS-4) the concentrations of lead and SVOCs exceeded the MCP RCS-1 values and COMM-94 / COMM-97 landfill and/or MLCRA acceptance criteria. In three sampling locations (2025-SS-2, 2025-SS-3, and 2025-SS-5) the fecal coliform exceeded the MLCRA acceptance criteria.

The presence of lead and PAHs is attributed to non-point source anthropogenic sources associated with discharge of untreated stormwater to the Site, and the presence of coal ash fragments in discrete portions of the Site. It is HW's opinion that the number of samples collected was sufficient to effectively characterize the Site, and support a determination of excess material management alternatives.

In support of the Project, HW prepared and submitted reuse/disposal packages to MLCRA and Bourne ISWM facilities. Facility review is ongoing at the time of this SGMP, and an addendum will be issued once facility approvals have been issued. Excess materials transported from the Project site must be tracked under a Material Shipping Record (MSR).

3.3.2 Groundwater

Groundwater is present at shallow depths in the existing wetland area, with lower lying portions of the Site typically inundated/submerged. During construction, dewatering of the project site is anticipated to be necessary to allow for efficient materials management and equipment access. As site constraints limit opportunities for on-site management of groundwater dewatered from the project site (i.e. recharge), it is anticipated that dewatered groundwater will be discharged to the Town of Nantucket municipal stormwater system at the northern end of the Site.

The municipal stormwater system ultimately discharges to the Children's Beach outfall (Outfall Number OF-055), located on Nantucket Inner Harbor. On the attached Figure 4, prepared by Fuss & O'Neill, stormwater infrastructure in the vicinity of the Site is depicted, including the Children's Beach outfall. During construction, the contractor will be responsible for maintaining compliance with local, state, and federal requirements. In support of the Project, HW notified the Nantucket Stormwater Division of the proposed dewatering activities. A copy of that notification and the Stormwater Division response is included in Appendix C.

4.0 MATERIAL MANAGEMENT PROCEDURES

4.1 Site Control and Monitoring

The results of the pre-characterization sampling activities were evaluated to classify materials and identify management options during construction. The classifications are based on information contained in the MCP 310 CMR 40.0000, the Massachusetts Hazardous Waste Management Regulations 310 CMR 30.0000, MassDEP's *Similar Soils Provision Guidance* WSC-13-500, MassDEP policies COMM-94 / COMM-97, and facility acceptance criteria.

Based on the presence of lead and PAHs in soil/sediment, the contractor is responsible for implementing a Health and Safety Plan (HASp), as discussed in Section 4.4.1. To mitigate any off-site impacts during construction, the contractor is responsible for monitoring and controlling fugitive dust, as discussed in Section 4.4.3. Additional field screening requirements for off-site disposal are described in Section 4.4.5.

4.2 Soil/Sediment Management

4.2.1 Soil/Sediment Type

In accordance with the pre-characterization sampling results, soil/sediment from the Site is designated as non-hazardous <RCS-1 and non-hazardous >RCS-1 soil that may be disposed of at Massachusetts Reclamation Reuse facilities and Massachusetts Lined/Unlined Landfills, subject to facility specific acceptance criteria and facility approval. Soil/sediment categories and potential management options for the Site are presented below. Sample results are summarized in Table 1, with facility acceptance criteria for comparison, and exceedances of facility acceptance criteria highlighted.

The Nantucket Land Bank has submitted soil reuse/disposal packages to MLCRA and Bourne ISWM. In the event that alternative/additional locations for excess soil/sediment are identified, the Land Bank must approve of any recycling/disposal facilities proposed by the contractor before materials are transported there. Multiple disposal/reuse options are provided as facility operations, soil transportation logistics, facility tipping fees, and contractor preference are expected to factor in contractor selection of facility(ies).

- **Massachusetts Unlined Landfills:** Soil that contains OHM concentration above MCP RCS-1 levels but below the criteria for Massachusetts Unlined landfills per MassDEP Policy COMM-97-001.
- **Massachusetts Lined Landfills:** Soil that contains OHM concentrations above MCP RCS-1 levels and Massachusetts Unlined landfills but below the criteria for Massachusetts Lined landfills per MassDEP Policy COMM-97-001.
- **MassDEP approved "Reclamation Soils" Sites:** Soils that contains OHM concentrations below soil reclamation and soil re-use acceptance criteria.

As noted above and summarized in Table 1, in two sampling locations (2025-SS-2 and 2025-SS-4) the concentrations of lead and SVOCs exceeded the COMM-94 / COMM-97 landfill

and/or MLCRA acceptance criteria. Material associated with these sample locations is suitable for reuse within the project area, but is not approved for off-site reuse or disposal.

In three sampling locations (2025-SS-2, 2025-SS-3, and 2025-SS-5) the fecal coliform exceeded the MLCRA acceptance criteria. Fecal coliform are not included in the COMM-94 / COMM-97 landfill acceptance criteria. Facility review of soil reuse/disposal packages is ongoing, and approvals will be issued as an addendum to this SGMP.

4.2.2 Soil Management Procedures

In support of soil excavation activities, HW or the Nantucket Land Bank field staff, under the supervision of the Licensed Site Professional (LSP), will complete the following on-site tasks:

- Periodically monitor compliance of the on-site excavation activities with the requirements of the SGMP.
- Prepare soil disposal/reuse approval requests for alternative facilities, should they be identified by the Contractor.
- Coordinate management of environmental media generated during on-site excavation activities to verify materials are being handled in accordance with this SGMP.
- Monitor the day-to-day progress of work, document work completed, and meet with Project representatives as required.

The contractor will be responsible for the following soil management activities, in addition to those required in the Project drawings and specifications and in Section 4.3.3, below:

- Excavated material will be transported under a Material Shipping Record (MSR) based on soil origin to an approved receiving facility.
- Excavated material shall be adequately dewatered prior to transportation to intermediate storage/transfer locations and the receiving facility to prevent the liquid from spilling from trucks onto roadways.
- Material dewatering areas shall be depicted on the contractor provided Dewatering Plan.
- The contractor will coordinate the off-site management of soil with facility personnel and the Nantucket Land Bank.
- Confirmation of all soil shipments associated with the project will consist of certified weight tickets from the selected facility and the completed MSRs.

4.3 Groundwater Management

4.3.1 Groundwater

Groundwater elevations vary on the Site, and the majority of excavation activities will occur within wetland areas where groundwater management is anticipated to be necessary to facilitate excavation. Groundwater elevations are anticipated to fluctuate seasonally, and in response to precipitation events due to stormwater discharge onto the Site. As specified in the drawings and specifications, erosion controls and Best Management Practices (BMPs) will be implemented during construction to minimize stormwater entering the excavations and off-site migration from the construction area.

Excavated material shall be adequately dewatered prior to transportation to intermediate storage/transfer locations and the receiving facility to prevent the liquid from spilling from trucks onto roadways. The contractor shall also implement BMPs to minimize potential inadvertent releases of OHM (i.e. spills or leaks from refueling of construction vehicles or storage of fuel, oil and other fluids during construction) that could potentially contaminate soil/sediment or groundwater. Spill reporting requirements will be conducted in accordance with the applicable federal, state and local regulations.

4.3.2 Groundwater Management Procedures

Based on project needs and subsurface conditions encountered during construction, groundwater management options that may be implemented include on-site recharge or discharge of groundwater to the municipal stormwater drainage system, which subsequently discharges to Nantucket Harbor. Off-site treatment and disposal of groundwater is not anticipated to occur based on the nature of site conditions and feasibility considerations.

Construction Dewatering: The Contractor is responsible for developing and executing all construction dewatering means and methods, and complying with all applicable federal, state, and local regulations. A summary of potentially applicable regulations is provided below:

- Recharge of groundwater on site, where feasible, is to be conducted as close as practicable to the dewatering activities origination point.
- A Non-Consumptive Use Exemption in accordance with 310 CMR 36.05(1) in accordance with Massachusetts Water Resource Management Program.
- No discharge shall enter a catch basin, recharge vessel or surface water body without prior permitting efforts which may include, but are not limited to, coverage under a NPDES DRGP and/or Construction General Permit (CGP). A DRGP is anticipated to be necessary for the Lily Pond Park project.
- Prior to any discharges to a stormwater system an Approval from the Nantucket Stormwater Division must be obtained, refer to Appendix C.
- Groundwater that is either disposed of or recycled off-site must be at a permitted and licensed facility.

On-Site Recharge: If feasible based on site-specific conditions, the least costly method of dewatering is to recharge groundwater back into the subsurface. This can either be completed by discharging back within the open excavation areas associated with construction/remediation activities, discharging to a specified groundwater recharge/infiltration area or trench, or discharge to the ground surface. Groundwater should be discharged within 100 feet of the original excavation and upgradient (if possible). If large volumes of groundwater that exceed direct recharge limitations require management, a fractionation tank may be used to temporarily store groundwater. The groundwater can then be allowed to discharge back into the excavation area, infiltration trench, or ground surface in a controlled manner.

Uncontaminated/Treated Groundwater: If large amounts of groundwater are anticipated/encountered rendering on-site recharge infeasible, discharge of groundwater to surface water via stormwater conveyances may be necessary. This activity must not occur without written consent from the local municipality or stormwater/sewer authority. Due to the

presence of naturally occurring and anthropogenic contaminants in soil/sediment within the project area, treatment of the discharge and coverage under a DRGP is necessary.

The contractor or designated subcontractor shall be responsible for all DRGP required activities, including, but not limited to:

- Filing of Notice of Intent (NOI);
- Design, operation and maintenance of all dewatering equipment and effluent treatment equipment;
- DRGP required influent and effluent monitoring including collection of samples for laboratory analysis of DRGP required parameters;
- Removal / disposal of all groundwater treatment residuals / waste; and
- Filing of Notice of Termination (NOT).

Additional conditions may be established or included in the Nantucket Stormwater Division permit. Refer to Appendix C.

4.3.3 Groundwater Disposal

A priority “from first to last option” of potential groundwater disposal facilities is provided below.

Type A Groundwater:	Non-Hazardous Beneficial Reuse: Groundwater and wastewaters that are characterized as non-hazardous waste and non-TSCA regulated (PCBs<3 parts per billions [ppb] or limit allowed by receiving facility permit) and are acceptable for beneficial reuse/recycle at a properly licensed facility.
Type B Groundwater:	Non-Hazardous Wastewater Treatment facility: Groundwater and wastewaters that are characterized as non-hazardous waste and non-TSCA regulated (PCBs< 3 ppb or limit allowed by receiving facility permit) and are acceptable for treatment and disposal at a properly licensed wastewater treatment facility.
Type C Groundwater:	Non-Hazardous Groundwater Treatment and Discharge: Groundwater and wastewaters that are characterized as non-hazardous waste and non-TSCA regulated (PCBs< 3 ppb or limit allowed by receiving facility permit) and are acceptable for on-site or off-site discharge under U.S. EPA DRGP or CGP.
Type D Groundwater:	U.S. EPA Hazardous Waste: Groundwater and wastewaters that are characterized as a hazardous waste and are shipped to a Treatment, Storage, or Disposal Facility (TSDF).

Due to the presence of naturally occurring and anthropogenic contaminants in soil/sediment within the project area, groundwater at the Site is categorized as **Type C**, and coverage under a DRGP is necessary to discharge to an off-site receiving water. The contractor or designated subcontractor shall be responsible for determining the methods and means for groundwater

treatment, and all permit required influent and effluent monitoring necessary to comply with applicable permits.

4.4 Additional Project Considerations

The SGMP is intended to provide guidance to the contractor regarding management of excess materials during construction. The contractor is responsible for maintaining compliance with all local, state, and federal permit requirements during the Project. Additional considerations related to the SGMP are provided below.

4.4.1 Health and Safety Plan (HASP)

Due to the presence of contaminants in soil, sediment, and groundwater at the Site, worker health and safety considerations must be evaluated by the Contractor. Consistent with the requirements of the Occupational Safety and Health Administration (OSHA) 29 CFR 1910.120 and any other applicable regulations, the selected contractor shall prepare a site-specific health and safety plan (HASP) for their employees and/or subcontractors. The HASP will be utilized by workers involved with soil and groundwater management procedures. The selected contractor shall be responsible for training and administering the HASP to project personnel.

4.4.2 Construction and Demolition Materials

Abandoned construction and demolition (C&D) materials may be encountered during soil excavation work. C&D waste includes building materials such as plastic or steel piping, drywall, scrap metal, carpet, wood, glass, etc. Should C&D waste be encountered during excavation activities, these wastes shall be segregated and disposed of separately at a recycling facility permitted to accept C&D waste.

4.4.3 Dust Control

Fugitive dust emissions during construction activities will be managed by the contractor to ensure no visible dust is generated from Project activities. Dust monitoring and control procedures will be the responsibility of the contractor and will ensure ambient air standards are met during construction and to protect the public from air-borne particles. At a minimum, a dust action level of 150 micrograms per cubic meter (ug/m3) (National Ambient Air Quality Standard) will be utilized during intrusive activities within the project Site. This level may be lowered by the contractor based on a Site-specific action level developed as part of the HASP (Section 4.4.1).

4.4.4 Soil Stockpiling

Stockpiling of soil during construction shall be conducted in areas designated in the Drawings. To minimize dust and erosion from stockpiled material, stockpiles shall be covered with polyethylene sheeting when the contractor is not actively working.

4.4.5 Field Screening

Soil reuse/disposal facilities may include requirements for field screening of soil during loading for TOV via PID. The contractor will coordinate the loading of excess material with facility personnel and the Nantucket Land Bank.

4.4.6 Asphalt, Brick and Concrete

Waste asphalt, brick and/or concrete (ABC) removed from the subsurface shall be managed separately for disposal. This material shall not be combined with C&D waste as this material is regulated and recycled differently. The ABC wastes must be segregated from soil and sized appropriately (generally six-inch minus) to gain acceptance at a permitted recycling facility.

4.4.7 Management of Solid Waste

Other solid waste that may be encountered during excavation includes plastic, cardboard, newspaper, and other solid wastes. During excavation activities, solid wastes shall be segregated and disposed of separately at a suitable recycling or disposal facility, permitted to accept solid waste.

4.4.8 Management of Invasive Species

Invasive species exist throughout the Site. Some areas are more densely covered with invasive vegetation than others. Invasive species management should be conducted as noted in the construction drawings and specifications and in accordance with the Nantucket Conservation Commission requirements.

4.4.9 Management of Unexpected Soil or Groundwater Conditions

If unexpected soil and/or groundwater conditions are encountered during construction (e.g. non-aqueous phase liquid (NAPL), buried waste), the contractor will notify the Nantucket Land Bank or their Representative immediately, who will provide appropriate guidance relative to the management, characterization, staging and recycling/disposal of such materials. Such soil and/or groundwater shall remain segregated until the impacted media has been sampled, and the contractor has obtained approval for disposal of this material at an appropriate receiving facility. Upon receipt of analytical results, the soil and/or groundwater will be characterized for disposal by the LSP and transported by licensed contractors to an appropriate disposal facility under MSR, BOL, or Hazardous Waste Manifest.

Figure 1 – Locus Map

Figure 2 – Aerial Map

Figure 3 – Sampling Location Plan

Figure 4 – Children’s Beach Overview – Watershed Overview



Date: 8/13/2024

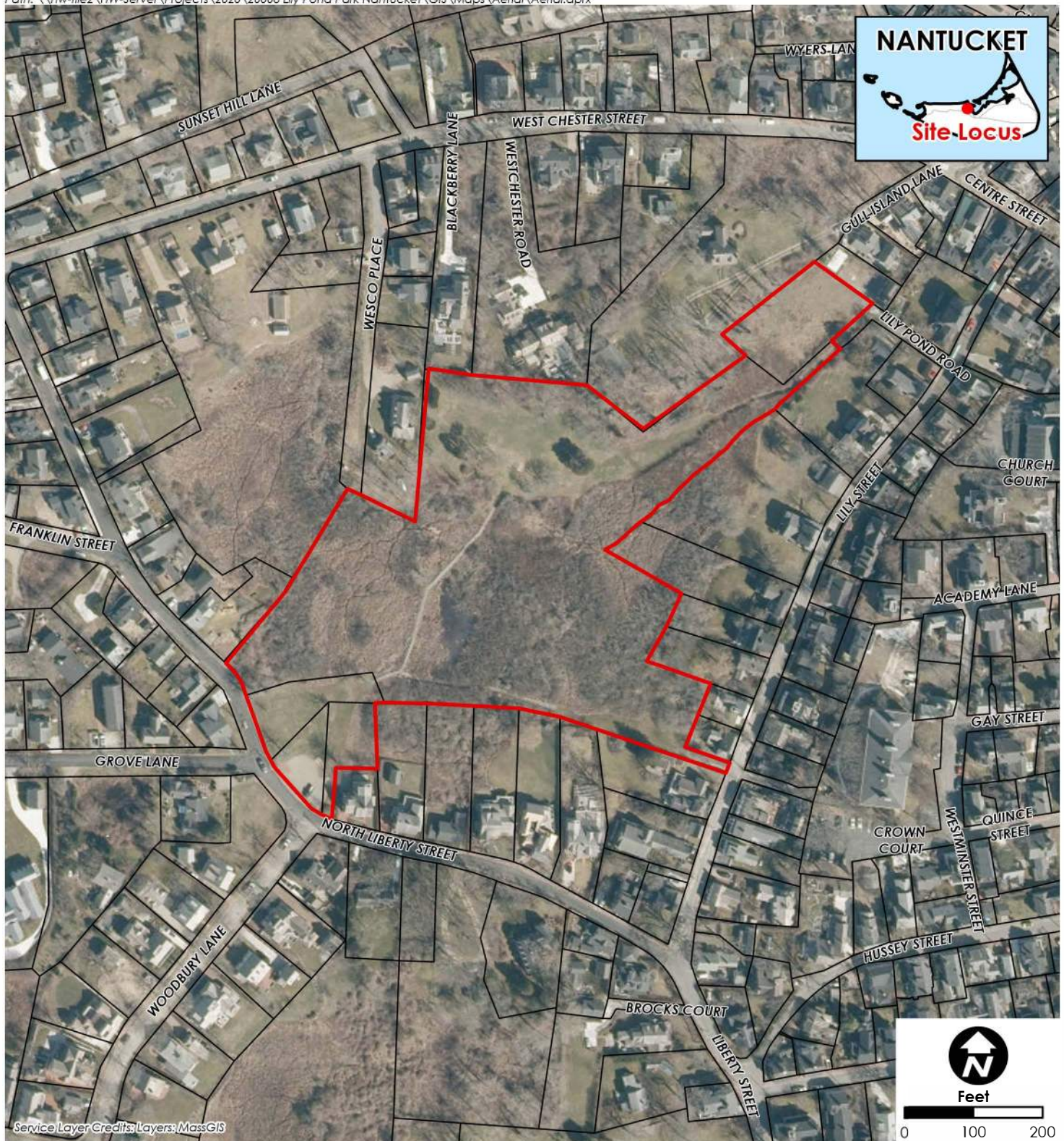
Data Sources: Bureau of Geographic Information (MassGIS), ESRI

This map is for informational purposes and may not be suitable for legal, engineering, or surveying purposes.

Project Boundary



Path: \\hw-file2\HW-Server\Projects\2020\20008 Lily Pond Park Nantucket\GIS\Maps\Aerial\Aerial.aprx

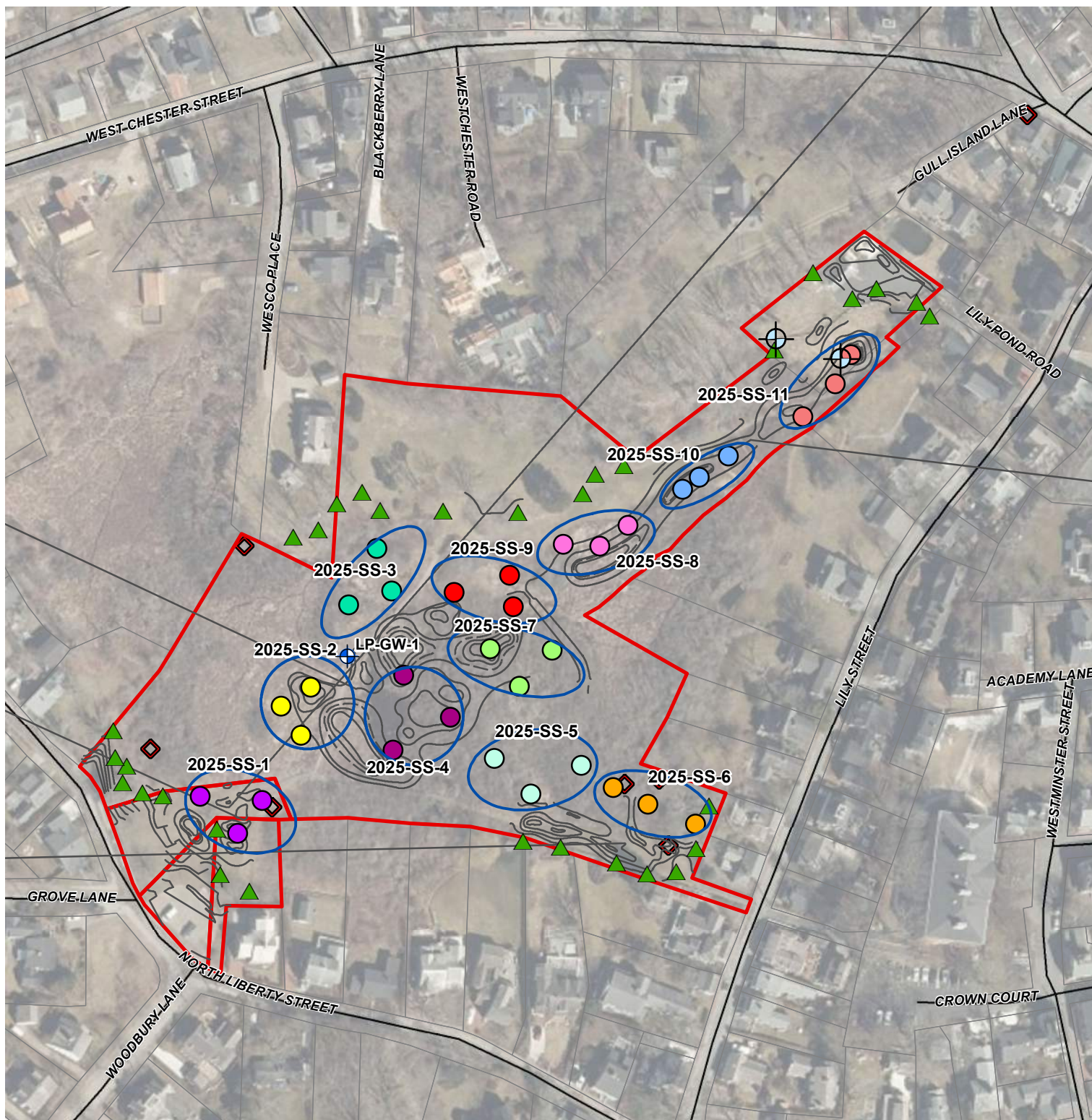


Date: 8/13/2024

Data Sources: Bureau of Geographic Information (MassGIS), ESRI

This map is for informational purposes and may not be suitable for legal, engineering, or surveying purposes.

- Project Boundary
- Parcels



Document Path: H:\Projects\2020\20008 Lily Pond Park Nantucket\GIS\Maps\Sediment_Sampling_2026.mxd

Legend

- Subject Property
- Sediment Grab Locations
- Composited Sediment Samples
- Proposed Grading Contours
- ⊕ Temporary Well Point
- ⊕ Groundwater Monitoring Well (Installed by Others)
- ◆ Approximate Outfall/Inlet Locations
- ▲ Wetland Flags (Approx.)

*2021 NAIP imagery service



0 150 feet

Horsley Witten Group
Sustainable Environmental Solutions

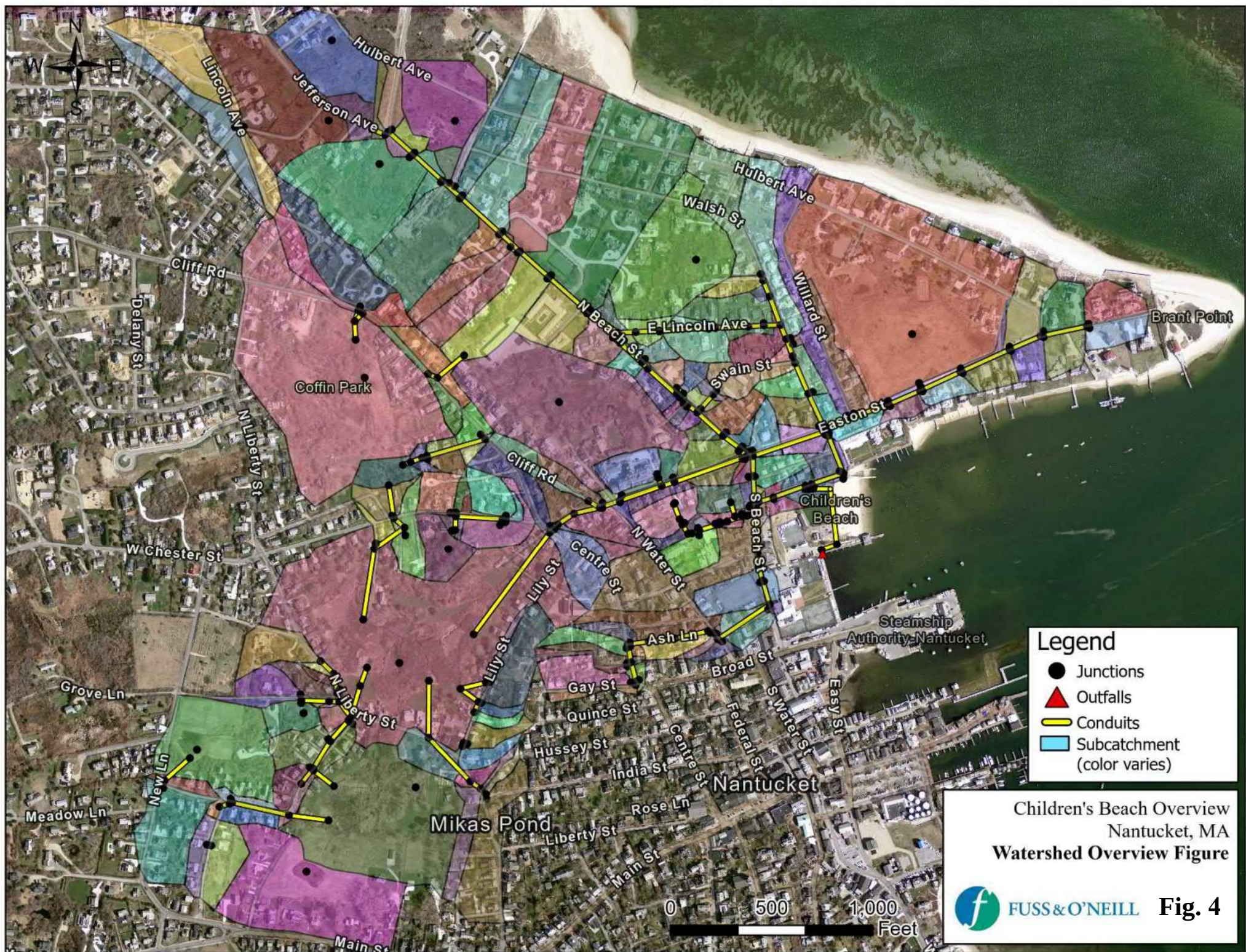
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Sampling Locations
Lily Pond Park
Nantucket, MA

Date: 6/15/2026

Figure 3



Children's Beach Overview
Nantucket, MA
Watershed Overview Figure

Table 1 – Sediment Sample Data

Table 2 – Sediment VOC Sample Data

Table 3 – DRGP Groundwater Sample Data

Table 1 - Sediment Sample Data
Lily Pond, Nantucket, MA

Sample Location							2025-SS-1	2025-SS-2			2025-SS-3	2025-SS-4	2025-SS-5	2025-SS-6	2025-SS-7		2025-SS-8		2025-SS-9	2025-SS-10	2025-SS-11		
Sample Depth							0-2'	0-1'	-	0-3'	0-1'	0-1'	0-2'	0-2'	-	0-3'	-	0-3'	0-2'	0-3'			
Sample Date							3/5/2025	3/5/2025	5/27/2026	3/5/2025	3/5/2025	3/5/2025	3/5/2025	3/5/2025	5/27/2026	3/5/2025	5/27/2026	3/5/2025	3/5/2025	3/5/2025			
Soil Standards		COMM-97-001 Unlined Landfill	COMM-97-001 Lined Landfill	COMM-94 for Dredged Sediment for Reuse or Disposal at MA Landfill	Marylin's Landing Soil Acceptance Criteria (SAC)	MCP RCS-1	Sample Results																
							Semivolatile Organic Compounds (SVOCs)																
1,2,4-Trichlorobenzene	mg/kg	NA	NA	NA	6	2	0.4 U	0.923 U	---	---	0.505 U	0.609 U	0.422 U	0.564 U	0.48 U	---	---	0.485 U	---	---	0.333 U	0.303 U	0.343 U
1,2-Dichlorobenzene	mg/kg	NA	NA	NA	100	9	0.4 U	0.923 U	---	---	0.505 U	0.609 U	0.422 U	0.564 U	0.48 U	---	---	0.485 U	---	---	0.333 U	0.303 U	0.343 U
1,3-Dichlorobenzene	mg/kg	NA	NA	NA	200	3	0.4 U	0.923 U	---	---	0.505 U	0.609 U	0.422 U	0.564 U	0.48 U	---	---	0.485 U	---	---	0.333 U	0.303 U	0.343 U
1,4-Dichlorobenzene	mg/kg	NA	NA	NA	1	0.7	0.2 U	0.461 U	---	---	0.252 U	0.305 U	0.211 U	0.282 U	0.24 U	---	---	0.243 U	---	---	0.167 U	0.152 U	0.343 U
2,4,5-Trichlorophenol	mg/kg	NA	NA	NA	600	4	0.4 U	0.923 U	---	---	0.505 U	0.609 U	0.422 U	0.564 U	0.48 U	---	---	0.485 U	---	---	0.333 U	0.303 U	0.343 U
2,4,6-Trichlorophenol	mg/kg	NA	NA	NA	20	0.7	0.2 U	0.461 U	---	---	0.252 U	0.305 U	0.211 U	0.282 U	0.24 U	---	---	0.243 U	---	---	0.167 U	0.152 U	0.343 U
2,4-Dichlorophenol	mg/kg	NA	NA	NA	40	0.7	0.2 U	0.461 U	---	---	0.252 U	0.305 U	0.211 U	0.282 U	0.24 U	---	---	0.243 U	---	---	0.167 U	0.152 U	0.343 U
2,4-Dimethylphenol	mg/kg	NA	NA	NA	100	0.7	0.28 U	0.646 U	---	---	0.353 U	0.426 U	0.295 U	0.395 U	0.336 U	---	---	0.34 U	---	---	0.233 U	0.212 U	0.343 U
2,4-Dinitrophenol	mg/kg	NA	NA	NA	50	3	0.8 U	1.85 U	---	---	1.01 U	1.22 U	0.844 U	1.13 U	0.96 U	---	---	0.97 U	---	---	0.667 U	0.607 U	1.37 U
2,4-Dinitrotoluene	mg/kg	NA	NA	NA	10	0.7	0.2 U	0.461 U	---	---	0.252 U	0.305 U	0.211 U	0.282 U	0.24 U	---	---	0.243 U	---	---	0.167 U	0.152 U	0.343 U
2,6-Dinitrotoluene	mg/kg	NA	NA	NA	1,000	100	0.4 U	0.923 U	---	---	0.505 U	0.609 U	0.422 U	0.564 U	0.48 U	---	---	0.485 U	---	---	0.333 U	0.303 U	0.343 U
2-Chloronaphthalene	mg/kg	NA	NA	NA	10,000	1,000	0.4 U	0.923 U	---	---	0.505 U	0.609 U	0.422 U	0.564 U	0.48 U	---	---	0.485 U	---	---	0.333 U	0.303 U	0.343 U
2-Chlorophenol	mg/kg	NA	NA	NA	100	0.7	0.2 U	0.461 U	---	---	0.252 U	0.305 U	0.211 U	0.282 U	0.24 U	---	---	0.243 U	---	---	0.167 U	0.152 U	0.343 U
2-Methylnaphthalene	mg/kg	NA	NA	NA	40	0.7	0.2 U	0.461 U	---	---	0.252 U	2.93	0.211 U	0.282 U	0.24 U	---	---	0.243 U	---	---	0.167 U	0.152 U	0.343 U
2-Methylphenol	mg/kg	NA	NA	NA	5,000	500	0.4 U	0.923 U	---	---	0.505 U	0.609 U	0.422 U	0.564 U	0.48 U	---	---	0.485 U	---	---	0.333 U	0.303 U	0.343 U
2-Nitrophenol	mg/kg	NA	NA	NA	1,000	100	0.8 U	1.85 U	---	---	1.01 U	1.22 U	0.844 U	1.13 U	0.96 U	---	---	0.97 U	---	---	0.667 U	0.607 U	0.685 U
3,3-Dichlorobenzidine	mg/kg	NA	NA	NA	20	3	0.4 U	0.923 U	---	---	0.505 U	0.609 U	0.422 U	0.564 U	0.48 U	---	---	0.485 U	---	---	0.333 U	0.303 U	0.343 U
3/4-Methylphenol	mg/kg	NA	NA	NA	5,000	500	0.4 U	0.923 U	---	---	0.505 U	0.609 U	0.422 U	0.564 U	0.48 U	---	---	0.485 U	---	---	0.333 U	0.303 U	0.343 U
4-Bromophenylphenylether	mg/kg	NA	NA	NA	500	100	0.4 U	0.923 U	---	---	0.505 U	0.609 U	0.422 U	0.564 U	0.48 U	---	---	0.485 U	---	---	0.333 U	0.303 U	0.343 U
4-Chloroaniline	mg/kg	NA	NA	NA	3	1	0.4 U	0.923 U	---	---	0.505 U	0.609 U	0.422 U	0.564 U	0.48 U	---	---	0.485 U	---	---	0.333 U	0.303 U	0.343 U
4-Nitrophenol	mg/kg	NA	NA	NA	1,000	100	1.6 U	3.69 U	---	---	2.02 U	2.44 U	1.69 U	2.26 U	1.92 U	---	---	1.94 U	---	---	1.33 U	1.21 U	1.37 U
Acenaphthene	mg/kg	NA	NA	NA	1,500	4	0.4 U	0.923 U	---	---	0.505 U	15.5	0.422 U	0.564 U	0.48 U	---	---	0.485 U	---	---	0.333 U	0.303 U	0.343 U
Acenaphthylene	mg/kg	NA	NA	NA	5	1	0.4 U	0.923 U	---	---	0.505 U	0.609 U	0.422 U	0.564 U	0.48 U	---	---	0.485 U	---	---	0.333 U	0.303 U	0.343 U
Acetophenone	mg/kg	NA	NA	NA	10,000	1,000	0.4 U	0.923 U	---	---	0.505 U	0.609 U	0.422 U	0.564 U	0.48 U	---	---	0.485 U	---	---	0.333 U	0.303 U	0.343 U
Aniline	mg/kg	NA	NA	NA	10,000	1,000	0.4 U	0.923 U	---	---	0.505 U	0.609 U	0.422 U	0.564 U	0.48 U	---	---	0.485 U	---	---	0.333 U	0.303 U	0.343 U
Anthracene	mg/kg	NA	NA	NA	3,000	1,000	0.4 U	0.923 U	---	---	0.505 U	32.4 D	0.422 U	0.564 U	0.48 U	---	---	0.485 U	---	---	0.333 U	0.303 U	0.343 U
Azobenzene	mg/kg	NA	NA	NA	500	NA	0.4 U	0.923 U	---	---	0.505 U	0.609 U	0.422 U	0.564 U	0.48 U	---	---	0.485 U	---	---	0.333 U	0.303 U	0.343 U
Benzo(a)anthracene	mg/kg	NA	NA	NA	300	7	0.4 U	0.923 U	---	---	0.505 U	51.2 D	0.463 -	0.564 U	0.901 -	---	---	0.485 U	---	---	0.333 U	0.303 U	0.465 -
Benzo(a)pyrene	mg/kg	NA	NA	NA	30	2	0.4 U	0.923 U	---	---	0.505 U	49.8 D	0.492 -	0.564 U	1.06 -	---	---	0.485 U	---	---	0.333 U	0.303 U	0.481 -
Benzo(b)fluoranthene	mg/kg	NA	NA	NA	300	7	0.4 U	0.923 U	---	---	0.505 U	52.1 D	0.558 -	0.564 U	1.25 -	---	---	0.485 U	---	---	0.333 U	0.303 U	0.506 -
Benzo(g,h,i)perylene	mg/kg	NA	NA	NA	3,000	1,000	0.4 U	0.923 U	---	---	0.505 U	30.3 -	0.422 U	0.564 U	0.652 -	---	---	0.485 U	---	---	0.333 U	0.303 U	0.343 U
Benzo(k)fluoranthene	mg/kg	NA	NA	NA	3,000	70	0.4 U	0.923 U	---	---	0.505 U	20.5 -	0.422 U	0.564 U	0.539 -	---	---	0.485 U	---	---	0.333 U	0.303 U	0.343 U
Biphenyl	mg/kg	NA	NA	NA	NA	0.05	0.04 U	0.092 U	---	---	0.05 U	0.909 -	0.042 U	0.056 U	0.048 U	---	---	0.049 U	---	---	0.033 U	0.03 U	0.034 U
Bis(2-chloroethoxy)methane	mg/kg	NA	NA	NA	5,000	500	0.4 U	0.923 U	---	---	0.505 U	0.609 U	0.422 U	0.564 U	0.48 U	---	---	0.485 U	---	---	0.333 U	0.303 U	0.343 U
Bis(2-chloroethyl)ether	mg/kg	NA	NA	NA	1	0.7	0.2 U	0.461 U	---	---	0.252 U	0.305 U	0.211 U	0.282 U	0.24 U	---	---	0.243 U	---	---	0.167 U	0.152 U	0.343 U
Bis(2-chloroisopropyl)ether	mg/kg	NA	NA	NA	1	0.7	0.2 U	0.461 U	---	---	0.252 U	0.305 U	0.211 U	0.282 U	0.24 U	---	---	0.243 U	---	---	0.167 U	0.152 U	0.343 U
Bis(2>																							

Table 1 - Sediment Sample Data
Lily Pond, Nantucket, MA

Sample Location							2025-SS-1	2025-SS-2			2025-SS-3	2025-SS-4	2025-SS-5	2025-SS-6	2025-SS-7		2025-SS-8		2025-SS-9	2025-SS-10	2025-SS-11															
Sample Depth							0-2'	0-1'	-		0-3'	0-1'	0-1'	0-2'	0-2'	-	0-3'	-	0-3'	0-2'	0-3'															
Sample Date							3/5/2025	3/5/2025	5/27/2026		3/5/2025	3/5/2025	3/5/2025	3/5/2025	3/5/2025	5/27/2026	3/5/2025	5/27/2026	3/5/2025	3/5/2025	3/5/2025															
Soil Standards		COMM-97-001 Unlined Landfill	COMM-97-001 Lined Landfill	COMM-94 for Dredged Sediment for Reuse or Disposal at MA Landfill	Marylin's Landing Soil Acceptance Criteria (SAC)	MCP RCS-1	Sample Results																													
Anthracene	mg/kg	NA	NA	NA	3,000	1,000	0.013	U	0.028	U	---	---	0.015	U	1.42	D	0.417	-	0.074	-	0.238	-	---	---	---	---	0.062	-	---	---	0.011	U	0.029	-	0.055	-
Benzo(a)anthracene	mg/kg	NA	NA	NA	300	7	0.086	-	0.05	-	---	---	0.032	-	3.06	D	2.98	-	0.512	-	1.4	-	---	---	---	---	0.546	-	---	---	0.075	-	0.235	-	0.297	-
Benzo(a)pyrene	mg/kg	NA	NA	NA	30	2	0.1	-	0.062	-	---	---	0.041	-	2.84	D	2.24	-	0.539	-	1.32	-	---	---	---	---	0.602	-	---	---	0.091	-	0.238	-	0.266	-
Benzo(b)fluoranthene	mg/kg	NA	NA	NA	300	7	0.073	-	0.054	-	---	---	0.036	-	2.19	D	1.9	-	0.453	-	1.16	-	---	---	---	---	0.549	-	---	---	0.084	-	0.201	-	0.22	-
Benzo(g,h,i)perylene	mg/kg	NA	NA	NA	3,000	1,000	0.063	-	0.04	-	---	---	0.028	-	1.6	D	1.49	-	0.326	-	0.935	-	---	---	---	---	0.401	-	---	---	0.059	-	0.146	-	0.159	-
Benzo(k)fluoranthene	mg/kg	NA	NA	NA	3,000	70	0.086	-	0.046	-	---	---	0.031	-	2.15	D	2.31	-	0.416	-	1.12	-	---	---	---	---	0.467	-	---	---	0.071	-	0.194	-	0.225	-
Chrysene	mg/kg	NA	NA	NA	3,000	70	0.106	-	0.062	-	---	---	0.04	-	2.7	D	2.95	-	0.521	-	1.48	-	---	---	---	---	0.615	-	---	---	0.084	-	0.238	-	0.294	-
Dibenzo(a,h)Anthracene	mg/kg	NA	NA	NA	30	0.7	0.028	-	0.028	U	---	---	0.017	-	0.808	D	0.716	-	0.155	-	0.438	-	---	---	---	---	0.208	-	---	---	0.032	-	0.075	-	0.077	-
Fluoranthene	mg/kg	NA	NA	NA	3,000	1,000	0.183	-	0.109	-	---	---	0.066	-	7.86	D	5.95	D	1.02	-	2.83	-	---	---	---	---	1.08	-	---	---	0.149	-	0.45	-	0.62	-
Fluorene	mg/kg	NA	NA	NA	3,000	1,000	0.013	U	0.028	U	---	---	0.015	U	0.582	D	0.099	-	0.026	-	0.08	-	---	---	---	---	0.022	-	---	---	0.011	U	0.01	U	0.015	-
Indeno(1,2,3-cd)Pyrene	mg/kg	NA	NA	NA	300	7	0.055	-	0.04	-	---	---	0.027	-	1.44	D	1.21	-	0.282	-	0.812	-	---	---	---	---	0.367	-	---	---	0.057	-	0.137	-	0.141	-
Pyrene	mg/kg	NA	NA	NA	3,000	1,000	0.163	-	0.093	-	---	---	0.059	-	6.83	D	7.28	D	1.01	-	2.74	-	---	---	---	---	1.05	-	---	---	0.14	-	0.409	-	0.544	-
Total PAHs	mg/kg	NA	NA	100	NA	NA	1.013		0.615		---	---	0.434		40.048		32.051		5.85		16.181		---	---	---	---	6.48		---	---	0.892		2.673		3.247	
Metals																																				
Antimony	mg/kg	NA	NA	NA	40	20	2.91	U	6.75	U	---	---	3.63	U	4.26	U	3.36	U	4.1	U	3.4	U	---	---	---	---	3.7	U	---	---	2.61	U	2.45	U	2.64	U
Arsenic	mg/kg	40	40	40	20	20	2.35	-	8.23	-	---	---	1.81	EL, U	7.92	-	5.83	-	10.8	-	4.65	-	---	---	---	---	3.49	-	---	---	2.59	-	2.16	-	1.81	-
Barium	mg/kg	NA	NA	NA	3,000	1,000	44	-	238	-	---	---	20.8	-	69.6	-	85.2	-	77.1	-	68.9	-	---	---	---	---	56.2	-	---	---	19.9	-	11.4	-	74.3	-
Beryllium	mg/kg	NA	NA	NA	200	90	0.4	-	1.14	-	---	---	0.21	-	0.24	-	0.44	-	0.46	-	0.51	-	---	---	---	---	0.35	-	---	---	0.37	-	0.18	-	0.18	-
Cadmium	mg/kg	30	80	80	80	70	0.29	U	1.98	-	---	---	0.36	U	0.43	U	0.34	U	0.41	U	0.34	U	---	---	---	---	0.37	U	---	---	0.26	U	0.24	U	0.26	U
Chromium	mg/kg	1,000	1,000	1,000	200	100	10.3	-	32.5	-	---	---	6.22	-	8.16	-	14.2	-	13.6	-	18.2	-	---	---	---	---	10.1	-	---	---	14.3	-	5.63	-	3.4	-
Lead	mg/kg	1,000	2,000	2,000	600	200	79.5	-	339	-	3830		42.5	-	231	-	344	-	358	-	209	-	33.2			180	-	154		21.6	-	35.9	-	126	-	
TCLP Lead*	mg/kg	5	5	5	5	NA	---	-	---	-	---	---	---	-	---	-	0.45	-	0.18	-	---	-	---	---	---	---	---	-	0.404		---	-	---	-	---	-
Mercury	mg/kg	10	10	10	40	20	0.077	-	0.358	-	---	---	0.053	-	0.402	D	0.274	-	0.673	D	0.088	-	---	---	---	---	0.803	D	---	---	0.065	-	0.054	-	0.497	D
Nickel	mg/kg	NA	NA	NA	1,000	600	5.44	-	19.5	-	---	---	3.08	-	5.79	-	8.26	-	7.75	-	10.7	-	---	---	---	---	5.81	-	---	---	6.56	-	2.76	-	2.56	-
Selenium	mg/kg	NA	NA	NA	800	400	2.91	U	6.75	U	---	---	3.63	U	4.26	U	3.36	U	4.1	U	3.4	U	---	---	---	---	3.7	U	---	---	2.61	U	2.45	U	2.64	U, D
Silver	mg/kg	NA	NA	NA	200	100	0.29	U	0.67	U	---	---	0.36	U	0.43	U	0.34	U	0.41	U	0.34	U	---	---	---	---	0.37	U	---	---	0.26	U	0.24	U	1.76	-
Thallium	mg/kg	NA	NA	NA	70	8	2.91	U	6.75	U	---	---	3.63	U	4.26	U	3.36	U	4.1	U	3.4	U	---	---	---	---	3.7	U	---	---	2.61	U	2.45	U	2.64	U
Vanadium	mg/kg	NA	NA	NA	800	400	13	-	44.1	-	---	---	7.64	-	11	-	20.6	-	24.6	-	22.7	-	---	---	---	---	13.4	-	---	---	16.4	-	7.65	-	7.58	-
Zinc	mg/kg	NA	NA	NA	3,000	1,000	44.6	-	863	-	---	---	22.2	-	429	-	141	-	125	-	254	-	---	---	---	---	86.6	-	---	---	20.5	-	13.6	-	61.3	-
401 WQC Metals (Oven Dried)																																				
Arsenic	mg/kg	40	40	40	20	20	3.58	-	6.78	-	---	---	0.82	-	10.5	-	5.68	-	8.05	-	2.29	-	---	---	---	---	3.79	-	---	---	1.28	-	2.23	-	1.61	-
Cadmium	mg/kg	30	80	80	80	70	0.25	-	2.9	-	---	---	0.1	U	0.38	-	0.11	-	0.1	U	0.09	U	---	---	---	---	0.22	-	---	---	0.1	U	0.1	U	0.09	U
Chromium	mg/kg	1,000	1,000	1,000	200	100	11.7	-	19	-	---	---	4.68	-	14.1	-	13.8	-	9.65	-	10.2	-	---	---	---	---	10.1	-	---	---	5.42	-	6.25	-	4.36	-
Lead	mg/kg	1,000	2,000	2,000	600	200	368	-	278	-	---	---	33.3	-	383	-	361	-	271	-	117	-	---	---	---	---	189	-	---	---	43.6	-	38.3	-	78.4	-
Mercury	mg/kg	10	10	10	40	20	0.171	-	0.364	D	---	---	0.049	-	0.48	D	0.354	D	0																	

Sample Location							2025-SS-1	2025-SS-2			2025-SS-3	2025-SS-4	2025-SS-5	2025-SS-6	2025-SS-7		2025-SS-8		2025-SS-9	2025-SS-10	2025-SS-11													
Sample Depth							0-2'	0-1'	-	0-3'	0-1'	0-1'	0-2'	0-2'	-	0-3'	-	0-3'	0-2'	0-3'														
Sample Date							3/5/2025	3/5/2025	5/27/2026	3/5/2025	3/5/2025	3/5/2025	3/5/2025	3/5/2025	5/27/2026	3/5/2025	5/27/2026	3/5/2025	3/5/2025	3/5/2025														
Soil Standards		COMM-97-001 Unlined Landfill	COMM-97-001 Lined Landfill	COMM-94 for Dredged Sediment for Reuse or Disposal at MA Landfill	Marylin's Landing Soil Acceptance Criteria (SAC)	MCP RCS-1	Sample Results																											
Pesticides																																		
4,4'-DDD	mg/kg	NA	NA	NA	1	10	0.0038 U	0.034	-	---	---	0.0086	-	0.227 D	0.0103 , LC	0.0263	-	0.0045 U	---	---	0.0086 , LC	---	---	0.0033 U	0.003 U	0.0033 U								
4,4'-DDE	mg/kg	NA	NA	NA	0.7	7	0.0038 U	0.0229 P, LC	---	---	---	0.0217	-	0.352 D	0.0241	-	0.0847 D	0.0051	-	---	---	0.0189	-	---	---	0.0063 -								
4,4'-DDT	mg/kg	NA	NA	NA	0.7	7	0.0038 U	0.0089 U	---	---	---	0.0048 U	0.0342	-	0.0096	-	0.0298	-	0.0045 U	---	---	0.0045 U	---	---	0.0037 -									
Aldrin	mg/kg	NA	NA	NA	0.05	0.09	0.0038 U	0.0089 U	---	---	---	0.0048 U	0.0058 U	0.0043 U	0.0053 U	0.0045 U	---	---	---	---	0.0045 U	---	---	0.0033 U	0.003 U	0.0033 U								
alpha-BHC	mg/kg	NA	NA	NA	5	50	0.0038 U	0.0089 U	---	---	---	0.0048 U	0.0058 U	0.0043 U	0.0053 U	0.0045 U	---	---	---	---	0.0045 U	---	---	0.0033 U	0.003 U	0.0033 U								
alpha-Chlordane	mg/kg	NA	NA	NA	NA	NA	0.0038 U	0.0089 U	---	---	---	0.0048 U	0.0058 U	0.006	-	0.0053 U	0.0045 U	---	---	---	---	0.0045 U	---	---	0.0033 U	0.003 U	0.0033 U							
beta-BHC	mg/kg	NA	NA	NA	1	10	0.0038 U	0.0089 U	---	---	---	0.0048 U	0.0058 U	0.0043 U	0.0053 U	0.0045 U	---	---	---	---	0.0045 U	---	---	0.0033 U	0.003 U	0.0033 U								
Chlordane (Total)	mg/kg	NA	NA	NA	0.6	6	0.0308 U	0.0709 U	---	---	---	0.0386 U	0.0461 U	0.0341 U	0.0427 U	0.0363 U	---	---	---	---	0.0363 U	---	---	0.0265 U	0.0244 U	0.0263 U								
delta-BHC	mg/kg	NA	NA	NA	1	10	0.0038 U	0.0089 U	---	---	---	0.0048 U	0.0058 U	0.0043 U	0.0053 U	0.0045 U	---	---	---	---	0.0045 U	---	---	0.0033 U	0.003 U	0.0033 U								
Dieldrin	mg/kg	NA	NA	NA	0.01	0.09	0.0038 U	0.0089 U	---	---	---	0.0048 U	0.0058 U	0.0043 U	0.0053 U	0.0045 U	---	---	---	---	0.0045 U	---	---	0.0033 U	0.003 U	0.0033 U								
Endosulfan I	mg/kg	NA	NA	NA	0.06	0.6	0.0038 U	0.0089 U	---	---	---	0.0048 U	0.0058 U	0.0043 U	0.0053 U	0.0045 U	---	---	---	---	0.0045 U	---	---	0.0033 U	0.003 U	0.0033 U								
Endosulfan II	mg/kg	NA	NA	NA	0.06	0.6	0.0038 U	0.0089 U	---	---	---	0.0048 U	0.0058 U	0.0043 U	0.0053 U	0.0045 U	---	---	---	---	0.0045 U	---	---	0.0033 U	0.003 U	0.0033 U								
Endosulfan Sulfate	mg/kg	NA	NA	NA	NA	NA	0.0038 U	0.0089 U	---	---	---	0.0048 U	0.0058 U	0.0043 U	0.0053 U	0.0045 U	---	---	---	---	0.0045 U	---	---	0.0033 U	0.003 U	0.0033 U								
Endrin	mg/kg	NA	NA	NA	2	20	0.0038 U	0.0089 U	---	---	---	0.0048 U	0.0058 U	0.0043 U	0.0053 U	0.0045 U	---	---	---	---	0.0045 U	---	---	0.0033 U	0.003 U	0.0033 U								
Endrin Ketone	mg/kg	NA	NA	NA	NA	NA	0.0038 U	0.0089 U	---	---	---	0.0048 U	0.0058 U	0.0043 U	0.0053 U	0.0045 U	---	---	---	---	0.0045 U	---	---	0.0033 U	0.003 U	0.0033 U								
gamma-BHC (Lindane)	mg/kg	NA	NA	NA	0.0003	0.003	0.0023 U	0.0053 U	---	---	---	0.0029 U	0.0035 U	0.0026 U	0.0032 U	0.0027 U	---	---	---	---	0.0027 U	---	---	0.002 U	0.0018 U	0.002 U								
gamma-Chlordane	mg/kg	NA	NA	NA	NA	NA	0.0038 U	0.0089 U	---	---	---	0.0048 U	0.0058 U	0.0043 U	0.0053 U	0.0045 U	---	---	---	---	0.0045 U	---	---	0.0033 U	0.003 U	0.0033 U								
Heptachlor	mg/kg	NA	NA	NA	0.03	0.3	0.0038 U	0.0089 U	---	---	---	0.0048 U	0.0058 U	0.0043 U	0.0053 U	0.0045 U	---	---	---	---	0.0045 U	---	---	0.0033 U	0.003 U	0.0033 U								
Heptachlor Epoxide	mg/kg	NA	NA	NA	0.03	0.3	0.0038 U	0.0089 U	---	---	---	0.0048 U	0.0058 U	0.0043 U	0.0053 U	0.0045 U	---	---	---	---	0.0045 U	---	---	0.0033 U	0.003 U	0.0033 U								
Hexachlorobenzene	mg/kg	NA	NA	NA	1	0.7	0.2 U	0.461 U	---	---	---	0.252 U	0.305 U	0.211 U	0.282 U	0.24 U	---	---	---	---	0.243 U	---	---	0.167 U	0.152 U	0.343 U								
Methoxychlor	mg/kg	NA	NA	NA	30	300	0.0038 U	0.0089 U	---	---	---	0.0048 U	0.0058 U	0.0043 U	0.0053 U	0.0045 U	---	---	---	---	0.0045 U	---	---	0.0033 U	0.003 U	0.0033 U								
Herbicides																																		
2,4,5-T	mg/kg	NA	NA	NA	10	100	0.014 U	0.033 U	---	---	---	0.018 U	0.021 U	0.016 U	0.021 U	0.017 U	---	---	---	---	0.017 U	---	---	0.012 U	0.012 U	0.013 U								
2,4,5-TP (Silvex)	mg/kg	NA	NA	NA	10	100	0.014 U	0.033 U	---	---	---	0.018 U	0.021 U	0.016 U	0.021 U	0.017 U	---	---	---	---	0.017 U	---	---	0.012 U	0.012 U	0.013 U								
2,4-D	mg/kg	NA	NA	NA	10	100	0.071 U	0.163 U	---	---	---	0.088 U	0.104 U	0.078 U	0.102 U	0.085 U	---	---	---	---	0.085 U	---	---	0.061 U	0.058 U	0.062 U								
2,4-DB	mg/kg	NA	NA	NA	10	100	0.072 U	0.165 U	---	---	---	0.089 U	0.105 U	0.079 U	0.103 U	0.086 U	---	---	---	---	0.086 U	---	---	0.061 U	0.058 U	0.063 U								
Dalapon	mg/kg	NA	NA	NA	NA	NA	0.069 U	0.158 U	---	---	---	0.085 U	0.1 U	0.076 U	0.099 U	0.083 U	---	---	---	---	0.082 U	---	---	0.059 U	0.056 U	0.06 U								
Dicamba	mg/kg	NA	NA	NA	50	500	0.014 U	0.033 U	---	---	---	0.018 U	0.021 U	0.016 U	0.02 U	0.017 U	---	---	---	---	0.017 U	---	---	0.012 U	0.012 U	0.012 U								
Dichloroprop	mg/kg	NA	NA	NA	NA	NA	0.071 U	0.163 U	---	---	---	0.088 U	0.104 U	0.078 U	0.102 U	0.085 U	---	---	---	---	0.085 U	---	---	0.061 U	0.058 U	0.062 U								
MCPA	mg/kg	NA	NA	NA	10	100	3.52 U	8.08 U	---	---	---	4.35 U	5.13 U	3.87 U	5.04 U	4.22 U	---	---	---	---	4.2 U	---	---	3.01 U	2.85 U	3.09 U								
MCPP	mg/kg	NA	NA	NA	NA	NA	3.56	8.16	---	---	---	4.4	5.19	3.91	5.09	4.27	---	---	---	---	4.25	---	---	3.04	2.88	3.12 U								
Classical Chemistry																																		
pH	S.U.	NA	NA	NA	5-9	NA	5.96	-	5.92	-	---	---	5.93	-	6.36	-	6.31	-	5.87	-	6.07	-	---	---	5.85	-	---	---	6.03	-	5.73	-	5.94	-
Flashpoint	°F	NA	NA	NA	>140	NA	200	>	200	>	---	---	200	>	200	>	200	>	200	>	---	---	---	200	>	---	---	200	>	200	>	200	>	
Reactive Cyanide	mg/kg	NA	NA	NA	NA	NA	2 U		2 U		---	---	2 U		2 U		2 U		2 U		---	---	---	2 U		---	---	2 U		2 U		2 U		
Reactive Sulfide	mg/kg	NA	NA	NA	NA	NA	2 U		2 U		---	---	2 U		2 U		2 U		2 U		---	---	---	2 U		---	---	2 U		2 U		2 U		
Total Organic Carbon (Average)	mg/kg	NA	NA	NA	NA	NA	50600	-	124000	-	---	---	83200	-	93000	-	63400	-	72100	-	65400	-	---	---	78500	-	---	---	14300	-	17900	-	24600	-
Percent Moisture	%	NA	NA	NA	NA	NA	36	-	72	-	---	---	48	-	57	-	41	-	54	-	46	-	---	---	46	-	---	---	25	-	20	-	25	-
Conductivity	umhos/cm	NA	8,000	NA	2,000	NA	39 WL		113 WL		---	---	313 WL		96 WL		79 WL		60 WL		64 WL		---	---	63 WL		---	---	33 WL		44 WL		63 WL	
Fecal Coliform																																		
Fecal Coliform	MPN	NA	NA	NA	1,000	NA	20		4,000		---	---	>31,000		NA		1,700		230		12		---	---	<3		---	---	100		24		4.8	

- Notes:
- µg/kg = Micrograms per kilogram
 - mg/kg = Milligrams per kilogram
 - MCP = Massachusetts Contingency Plan
 - RCS-1 = The Reportable Concentration for category S-1 soils
 - WQC = Water Quality Certification (Sediment standards for permitting purposes)
 - Bold** indicates concentration exceeds applicable 401 WQC reporting limits
 - Bold and highlighted** indicates concentration exceeds MCP RCS-1 value
 - Highlighted indicated concentration exceeds applicable Marylin's Landing Soil Acceptance Criteria (SAC)
 - Highlighted indicated concentration exceeds applicable COMM-97 Soil Reuse Values in Lined Landfill
 - < = Not detected by the laboratory above the reporting limit. Laboratory reporting limit shown.
 - U = Not detected by the laboratory above the method detection limit. Laboratory method detection limit shown.
 - TOV PID = Total Organic Vapors, Photoionization Detector Calibrated to Benzene
 - ND = Not Detected
 - NA = Not Applicable
 - D = Samples were diluted for laboratory analysis
 - WL = Results obtained from a deionized water leach of the sample.
 - > = Greater than
 - = Not Sampled
 - LC = lower value is used by laboratory due to matrix interferences
 - P = Percent difference between primary and confirmation results exceeds 40% (P) for laboratory use.
 - MPN - Most probable number of colony forming units. Fecal coliform samples collected May 27, 2026.
 - Sample is being reanalyzed

Table 2 - Sediment Sample Data
Lily Pond, Nantucket, MA

Sample Location						2025-SS-1A	2025-SS-2C	2025-SS-3A	2025-SS-4B	2025-SS-5C	2025-SS-6A	2025-SS-7B	2025-SS-8C	2025-SS-9A	2025-SS-10C	2025-SS-11B	
Sample Depth						0-1'	0-1'	0-1'	0-2'	0-1'	0-1'	0-1'	0-3'	0-3'	0-1'	0-2'	
Sample Date						3/5/2025	3/5/2025	3/5/2025	3/5/2025	3/5/2025	3/5/2025	3/5/2025	3/5/2025	3/5/2025	3/5/2025	3/5/2025	
TOV PID						0.3	<0.01	0.1	0.3	0.4	0.4	0.1	<0.01	<0.01	<0.01	0.2	
Soil Standards		COMM-97-001 Lined Landfill	COMM-97-001 Unlined Landfill	Marylin's Landing Soil Acceptance Criteria (SAC)	COMM-94 for Dredged Sediment for Reuse or Disposal at MA Landfill	MCP RCS-1	Sample Results										
Volatile Organic Compounds (VOCs)																	
1,1,1,2-Tetrachloroethane	mg/kg	NA	NA	0.01	NA	0.1	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
1,1,1-Trichloroethane	mg/kg	NA	NA	3	NA	30	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
1,1,2,2-Tetrachloroethane	mg/kg	NA	NA	0.0005	NA	0.005	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
1,1,2-Trichloroethane	mg/kg	NA	NA	0.01	NA	0.1	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
1,1-Dichloroethane	mg/kg	NA	NA	0.04	NA	0.4	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
1,1-Dichloroethene	mg/kg	NA	NA	0.3	NA	NA	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
1,1-Dichloropropene	mg/kg	NA	NA	NA	NA	500	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
1,2,3-Trichlorobenzene	mg/kg	NA	NA	NA	NA	NA	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
1,2,3-Trichloropropane	mg/kg	NA	NA	10	NA	100	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
1,2,4-Trichlorobenzene	mg/kg	NA	NA	6	NA	2	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
1,2,4-Trimethylbenzene	mg/kg	NA	NA	100	NA	1000	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
1,2-Dibromo-3-Chloropropane	mg/kg	NA	NA	1	NA	10	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
1,2-Dibromoethane	mg/kg	NA	NA	0.01	NA	0.1	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
1,2-Dichlorobenzene	mg/kg	NA	NA	100	NA	9	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
1,2-Dichloroethane	mg/kg	NA	NA	0.01	NA	0.1	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
1,2-Dichloropropane	mg/kg	NA	NA	0.01	NA	0.1	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
1,3,5-Trimethylbenzene	mg/kg	NA	NA	1	NA	NA	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
1,3-Dichlorobenzene	mg/kg	NA	NA	200	NA	3	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
1,3-Dichloropropane	mg/kg	NA	NA	50	NA	500	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
1,4-Dichlorobenzene	mg/kg	NA	NA	1	NA	0.7	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
1,4-Dioxane	mg/kg	NA	NA	0.02	NA	0.2	0.262 U	0.236 U	0.382 U	0.233 U	0.132 U	0.246 U	0.276 U	0.276 U	0.334 U	0.301 U	0.128 U
2,2-Dichloropropane	mg/kg	NA	NA	0.01	NA	NA	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
2-Butanone	mg/kg	NA	NA	0.4	NA	4	0.131 U	0.118 U	0.191 U	0.116 U	0.0659 U	0.279 -	0.138 U	0.138 U	0.167 U	0.151 U	0.0641 U
2-Chlorotoluene	mg/kg	NA	NA	10	NA	100	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
2-Hexanone	mg/kg	NA	NA	10	NA	100	0.131 U	0.118 U	0.191 U	0.116 U	0.0659 U	0.123 U	0.138 U	0.138 U	0.167 U	0.151 U	0.0641 U
4-Chlorotoluene	mg/kg	NA	NA	10	NA	NA	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
4-Isopropyltoluene	mg/kg	NA	NA	10	NA	100	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
4-Methyl-2-Pentanone	mg/kg	NA	NA	0.04	NA	0.4	0.131 U	0.118 U	0.191 U	0.116 U	0.0659 U	0.123 U	0.138 U	0.138 U	0.167 U	0.151 U	0.0641 U
Acetone	mg/kg	NA	NA	0.6	NA	6	0.131 U	0.352 -	0.327 -	0.371 -	0.0659 U	0.368 -	0.445 -	0.391 -	0.443 -	0.564 -	0.0641 U
Benzene	mg/kg	NA	NA	0.2	NA	2	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Bromobenzene	mg/kg	NA	NA	10	NA	100	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Bromochloromethane	mg/kg	NA	NA	NA	NA	NA	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Bromodichloromethane	mg/kg	NA	NA	0.01	NA	0.1	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Bromoform	mg/kg	NA	NA	0.01	NA	0.1	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Bromomethane	mg/kg	NA	NA	0.05	NA	0.5	0.0262 U	0.0236 U	0.0382 U	0.0233 U	0.0132 U	0.0246 U	0.0276 U	0.0276 U	0.0334 U	0.0301 U	0.0128 U
Carbon Disulfide	mg/kg	NA	NA	10	NA	100	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Carbon Tetrachloride	mg/kg	NA	NA	0.5	NA	5	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Chlorobenzene	mg/kg	NA	NA	0.1	NA	1	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Chloroethane	mg/kg	NA	NA	10	NA	100	0.0262 U	0.0236 U	0.0382 U	0.0233 U	0.0132 U	0.0246 U	0.0276 U	0.0276 U	0.0334 U	0.0301 U	0.0128 U
Chloroform	mg/kg	NA	NA	0.02	NA	0.2	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Chloromethane	mg/kg	NA	NA	10	NA	100	0.0262 U	0.0236 U	0.0382 U	0.0233 U	0.0132 U	0.0246 U	0.0276 U	0.0276 U	0.0334 U	0.0301 U	0.0128 U
cis-1,2-Dichloroethene	mg/kg	NA	NA	0.01	NA	0.1	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
cis-1,3-Dichloropropene	mg/kg	NA	NA	0.001	NA	0.01	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Dibromochloromethane	mg/kg	NA	NA	0.0005	NA	0.005	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Dibromomethane	mg/kg	NA	NA	50	NA	500	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Dichlorodifluoromethane	mg/kg	NA	NA	100	NA	1000	0.0262 U	0.0236 U	0.0382 U	0.0233 U	0.0132 U	0.0246 U	0.0276 U	0.0276 U	0.0334 U	0.0301 U	0.0128 U
Diethyl Ether	mg/kg	NA	NA	10	NA	100	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Di-isopropyl ether	mg/kg	NA	NA	10	NA	100	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Ethyl tertiary-butyl ether	mg/kg	NA	NA	NA	NA	NA	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Ethylbenzene	mg/kg	NA	NA	4	NA	40	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Hexachlorobutadiene	mg/kg	NA	NA	100	NA	30	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Isopropylbenzene	mg/kg	NA	NA	100	NA	1000	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Methyl tert-Butyl Ether	mg/kg	NA	NA	0.01	NA	0.1	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Methylene Chloride	mg/kg	NA	NA	0.01	NA	0.1	0.0654 U	0.0591 U	0.0956 U	0.0582 U	0.0329 U	0.0614 U	0.0689 U	0.0689 U	0.0834 U	0.0754 U	0.0321 U
Naphthalene	mg/kg	NA	NA	10	NA	4	0.0131 U	0.0118									

Table 2 - Sediment Sample Data
Lily Pond, Nantucket, MA

Sample Location							2025-SS-1A	2025-SS-2C	2025-SS-3A	2025-SS-4B	2025-SS-5C	2025-SS-6A	2025-SS-7B	2025-SS-8C	2025-SS-9A	2025-SS-10C	2025-SS-11B
Sample Depth							0-1'	0-1'	0-1'	0-2'	0-1'	0-1'	0-1'	0-3'	0-3'	0-1'	0-2'
Sample Date							3/5/2025	3/5/2025	3/5/2025	3/5/2025	3/5/2025	3/5/2025	3/5/2025	3/5/2025	3/5/2025	3/5/2025	3/5/2025
TOV PID							0.3	<0.01	0.1	0.3	0.4	0.4	0.1	<0.01	<0.01	<0.01	0.2
Soil Standards		COMM-97-001 Lined Landfill	COMM-97-001 Unlined Landfill	Marylin's Landing Soil Acceptance Criteria (SAC)	COMM-94 for Dredged Sediment for Reuse or Disposal at MA Landfill	MCP RCS-1	Sample Results										
Tetrahydrofuran	mg/kg	NA	NA	50	NA	500	0.0523 U	0.0473 U	0.0765 U	0.0466 U	0.0264 U	0.0491 U	0.0551 U	0.0551 U	0.0667 U	0.0603 U	0.0256 U
Toluene	mg/kg	NA	NA	3	NA	30	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
trans-1,2-Dichloroethene	mg/kg	NA	NA	0.1	NA	1	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
trans-1,3-Dichloropropene	mg/kg	NA	NA	0.001	NA	0.01	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Trichloroethene	mg/kg	NA	NA	0.03	NA	0.3	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Trichlorofluoromethane	mg/kg	NA	NA	100	NA	1000	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Vinyl Chloride	mg/kg	NA	NA	0.03	NA	0.7	0.0262 U	0.0236 U	0.0382 U	0.0233 U	0.0132 U	0.0246 U	0.0276 U	0.0276 U	0.0334 U	0.0301 U	0.0128 U
Xylene O	mg/kg	NA	NA	10	NA	NA	0.0131 U	0.0118 U	0.0191 U	0.0116 U	0.0066 U	0.0123 U	0.0138 U	0.0138 U	0.0167 U	0.0151 U	0.0064 U
Xylene P,M	mg/kg	NA	NA	10	NA	NA	0.0262 U	0.0236 U	0.0382 U	0.0233 U	0.0132 U	0.0246 U	0.0276 U	0.0276 U	0.0334 U	0.0301 U	0.0128 U
Xylenes (Total)	mg/kg	NA	NA	NA	NA	100	0.0262 U	0.0236 U	0.0382 U	0.0233 U	0.0132 U	0.0246 U	0.0276 U	0.0276 U	0.0334 U	0.0301 U	0.0128 U
Total VOCs	mg/kg	NA	NA	NA	10	NA	ND	0.352	0.327	0.371	ND	0.647	0.445	0.391	0.443	0.564	ND

- Notes:
- 1. µg/kg = Micrograms per kilogram
 - 2. mg/kg = Milligrams per kilogram
 - 3. MCP = Massachusetts Contingency Plan
 - 4. RCS-1 = The Reportable Concentration for category S-1 soils
 - 5. WQC = Water Quality Certification (Sediment standards for permitting purposes)
 - 6. **WQC** indicates concentration exceeds applicable 401 WQC reporting limits
 - 7. **WQC and highlighted** indicates concentration exceeds MCP RCS-1 values
 - 8. Highlighted indicates concentration exceeds applicable Marylin's Landing Soil Acceptance Criteria (SAC)
 - 9. Highlighted indicates concentration exceeds applicable COMM-97 Soil Reuse Values in Lined Landfill
 - 10. < = Not detected by the laboratory above the reporting limit. Laboratory reporting limit shown.
 - 11. U = Not detected by the laboratory above the method detection limit. Laboratory method detection limit shown.
 - 12. TOV PID = Total Organic Vapors, Photoionization Detector Calibrated to Benzene
 - 13. ND = Not Detected
 - 14. NA = Not Applicable
 - 15. D = Samples were diluted for laboratory analysis
 - 16. WL = Results obtained from a deionized water leach of the sample.
 - 17. > = Greater than
 - 18. --- = Not Sampled

Table 3 - DRGP Sample Data
Lily Pond Park, Nantucket, MA

Sample Location				LP-GW-1
Sample Date				5/26/2026
		DRGP Wastewater Limitations		Sample Results
		Groundwater	Stormwater	
Semivolatile Organic Compounds (SVOCs)				
1-Chloropropane	ug/L	NA	NA	< 5.00
Acenaphthene	ug/L	NA	NA	< 5.00
Acenaphthylene	ug/L	NA	NA	< 5.00
Anthracene	ug/L	NA	NA	< 5.00
Benzo(a)anthracene	ug/L	NA	NA	< 5.00
Benzo(a)pyrene	ug/L	NA	NA	< 5.00
Benzo(b)fluoranthene	ug/L	NA	NA	< 5.00
Benzo(g,h,i)perylene	ug/L	NA	NA	< 5.00
Benzo(k)fluoranthene	ug/L	NA	NA	< 5.00
Bis(2-Ethylhexyl)phthalate	ug/L	NA	NA	< 5.00
Butylbenzylphthalate	ug/L	NA	NA	< 5.00
Chrysene	ug/L	NA	NA	< 5.00
Dibenz(a,h)anthracene	ug/L	NA	NA	< 5.00
Diethylphthalate	ug/L	NA	NA	< 5.00
Dimethylphthalate	ug/L	NA	NA	< 5.00
Di-n-butylphthalate	ug/L	NA	NA	< 5.00
Di-n-octylphthalate	ug/L	NA	NA	< 5.00
Ethylene Dibromide	ug/L	NA	NA	< 0.0194
Fluoranthene	ug/L	NA	NA	< 5.00
Fluorene	ug/L	NA	NA	< 5.00
Indeno(1,2,3-cd)pyrene	ug/L	NA	NA	< 5.00
Naphthalene	ug/L	NA	NA	< 2.00
Pentachlorophenol	ug/L	NA	NA	< 5.00
Phenanthrene	ug/L	NA	NA	< 5.00
Pyrene	ug/L	NA	NA	< 5.00
1,4-Dioxane	ug/L	NA	NA	< 0.195
Total SVOCs	ug/L	NA	NA	ND
Volatile Organic Compounds (VOCs)				
1,1,1-Trichloroethane	ug/L	NA	NA	< 1.00
1,1,2-Trichloroethane	ug/L	NA	NA	< 1.00
1,1-Dichloroethane	ug/L	NA	NA	< 1.00
1,1-Dichloroethene	ug/L	NA	NA	< 1.00
1,2-Dichlorobenzene	ug/L	NA	NA	< 1.00
1,2-Dichloroethane	ug/L	NA	NA	< 1.00
1,2-Dichloroethene, Total	ug/L	NA	NA	< 2.00
1,2-Dichloropropane	ug/L	NA	NA	< 1.00
1,3-Dichlorobenzene	ug/L	NA	NA	< 1.00
1,3-Dichloropropene, Total	ug/L	NA	NA	< 2.00
1,4-Dichlorobenzene	ug/L	NA	NA	< 1.00
Acetone	ug/L	NA	NA	< 10.0
Benzene	ug/L	NA	NA	< 1.00
Carbon tetrachloride	ug/L	NA	NA	< 1.00
Chloromethane	ug/L	NA	NA	< 2.00
cis-1,2-Dichloroethene	ug/L	NA	NA	< 1.00
Ethanol	ug/L	NA	NA	< 200
Ethylbenzene	ug/L	NA	NA	< 1.00
Methyl tert-butyl ether	ug/L	NA	NA	< 1.00
Methylene Chloride	ug/L	NA	NA	< 10.0
m-Xylene & p-Xylene	ug/L	NA	NA	< 2.00
Naphthalene	ug/L	NA	NA	< 2.00
o-Xylene	ug/L	NA	NA	< 1.00
t-Butyl alcohol	ug/L	NA	NA	< 10.0
Tert-amyl methyl ether	ug/L	NA	NA	< 1.00
Tetrachloroethene	ug/L	NA	NA	< 1.00
Toluene	ug/L	NA	NA	< 1.00
trans-1,2-Dichloroethene	ug/L	NA	NA	< 1.00
trans-1,3-Dichloropropene	ug/L	NA	NA	< 1.00
Trichloroethene	ug/L	NA	NA	< 1.00
Vinyl chloride	ug/L	NA	NA	< 1.00
Xylenes, Total	ug/L	NA	NA	< 3.00
Total Phenols				
Total Phenols	mg/L	NA	NA	<0.0200
Metals (Total)				
Antimony	ug/L	NA	NA	<2.00
Arsenic	ug/L	104	NA	<2.00
Cadmium	ug/L	NA	NA	<1.00
Chromium	ug/L	NA	NA	<4.00
Copper	ug/L	242	242	<4.00
Iron	ug/L	5,000	NA	18,700
Lead	ug/L	160	NA	4.11
Mercury	mg/L	NA	NA	< 0.000200

Table 3 - DRGP Sample Data
Lily Pond Park, Nantucket, MA

Sample Location				LP-GW-1
Sample Date				5/26/2026
		DRGP Wastewater Limitations		Sample Results
		Groundwater	Stormwater	
Nickel	ug/L	NA	1450	<2.00
Selenium	ug/L	NA	NA	<4.00
Silver	ug/L	NA	NA	<2.00
Zinc	ug/L	NA	420	<25.0
Metals (Dissolved)				
Antimony	ug/L	NA	NA	<2.00
Arsenic	ug/L	104	NA	<2.00
Cadmium	ug/L	NA	NA	<1.00
Chromium	ug/L	NA	NA	<4.00
Copper	ug/L	242	242	<4.00
Iron	ug/L	5,000	NA	18,900
Lead	ug/L	160	NA	<2.00
Mercury	mg/L	NA	NA	< 0.000200
Nickel	ug/L	NA	1450	<2.00
Selenium	ug/L	NA	NA	<4.00
Silver	ug/L	NA	NA	<2.00
Zinc	ug/L	NA	420	<25.0
Metals				
Calcium	mg/L	NA	NA	16.9
Magnesium	mg/L	NA	NA	3.42
Chromium				
Chromium	mg/L	NA	NA	< 4.00
Chromium III	mg/L	NA	NA	< 0.0100
Chromium VI	mg/L	NA	NA	< 0.0600
Total Petroleum Hydrocarbons (TPH) / SGT-HEM				
Total Petroleum Hydrocarbons (TPH)	mg/L	5	NA	<4.9
Polychlorinated Biphenyls (PCBs)				
PCB-1016	ug/L	NA	NA	< 0.400
PCB-1221	ug/L	NA	NA	< 0.400
PCB-1232	ug/L	NA	NA	< 0.400
PCB-1242	ug/L	NA	NA	< 0.400
PCB-1248	ug/L	NA	NA	< 0.400
PCB-1254	ug/L	NA	NA	< 0.400
PCB-1260	ug/L	NA	NA	< 0.400
PCB-1262	ug/L	NA	NA	< 0.400
PCB-1268	ug/L	NA	NA	< 0.400
Total PCBs	ug/L	NA	NA	ND
Classical Chemistry				
Total Suspended Solids	mg/L	30	30	33
Cyanide, Total	mg/L	17.8	NA	< 0.00500
Ammonia-N	mg/L	NA	NA	< 0.750
Chlorine, Total Residual	mg/L	NA	NA	< 0.600
Nitrate Nitrite as N	mg/L	NA	NA	< 0.0400
Nitrogen, Total	mg/L	10	10	< 7.50
Total Kjeldahl Nitrogen	mg/L	NA	NA	< 7.50

Notes:

1. ug/L = Micrograms per liter
2. mg/L = Milligrams per liter
3. DRGP = Dewatering and Remediation General Permit
4. DRGP limitations based on the National Pollutant Discharge Elimination System (NPDES) General Permit for Dewatering
5. **Bold and highlighted** indicates concentration exceeds applicable DRGP Standards
6. < = Not detected by the laboratory above the reporting limit. Laboratory reporting limit shown.
7. U = Not detected by the laboratory above the method detection limit. Laboratory method detection limit shown.
8. ND = Not Detected
9. NA = Not Applicable



Lily Pond
17 N Liberty St
Nantucket, MA 02554

Inquiry Number: 6976069.3
May 12, 2022

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

05/12/22

Site Name:

Lily Pond
17 N Liberty St
Nantucket, MA 02554
EDR Inquiry # 6976069.3

Client Name:

Horsley Witten Group, Inc.
90 Route 6A
Sandwich, MA 02563
Contact: Caroline Armstrong



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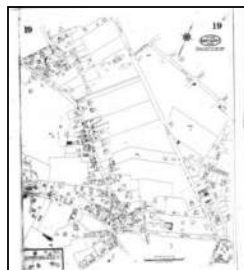
1962 Source Sheets



Volume 1, Sheet 2
1962



Volume 1, Sheet 4
1962



Volume 1, Sheet 19
1962

1949 Source Sheets



Volume 1, Sheet 2
1949



Volume 1, Sheet 4
1949



Volume 1, Sheet 19
1949

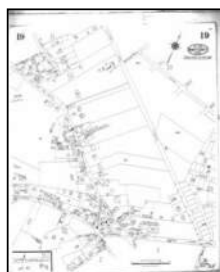
1923 Source Sheets



Volume 1, Sheet 2
1923



Volume 1, Sheet 4
1923



Volume 1, Sheet 19
1923

1909 Source Sheets



Volume 1, Sheet 3
1909



Volume 1, Sheet 5
1909

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



1904 Source Sheets



Volume 1, Sheet 3
1904



Volume 1, Sheet 5
1904

1898 Source Sheets



Volume 1, Sheet 4
1898



Volume 1, Sheet 2
1898

1892 Source Sheets



Volume 1, Sheet 2
1892



Volume 1, Sheet 4
1892

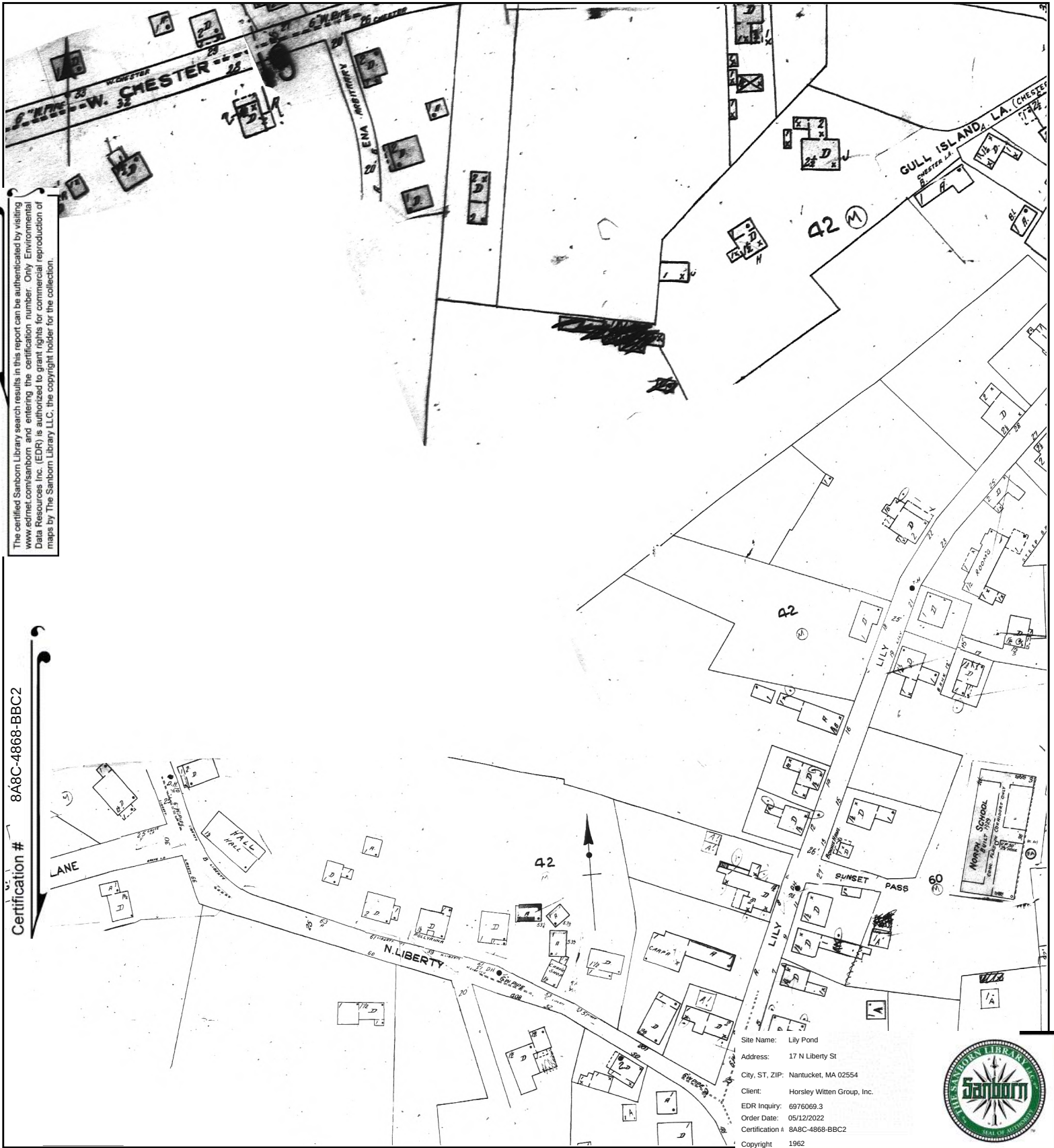


Volume 1, Sheet 5
1892

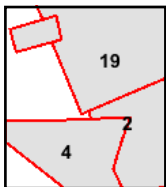
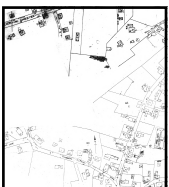
1887 Source Sheets



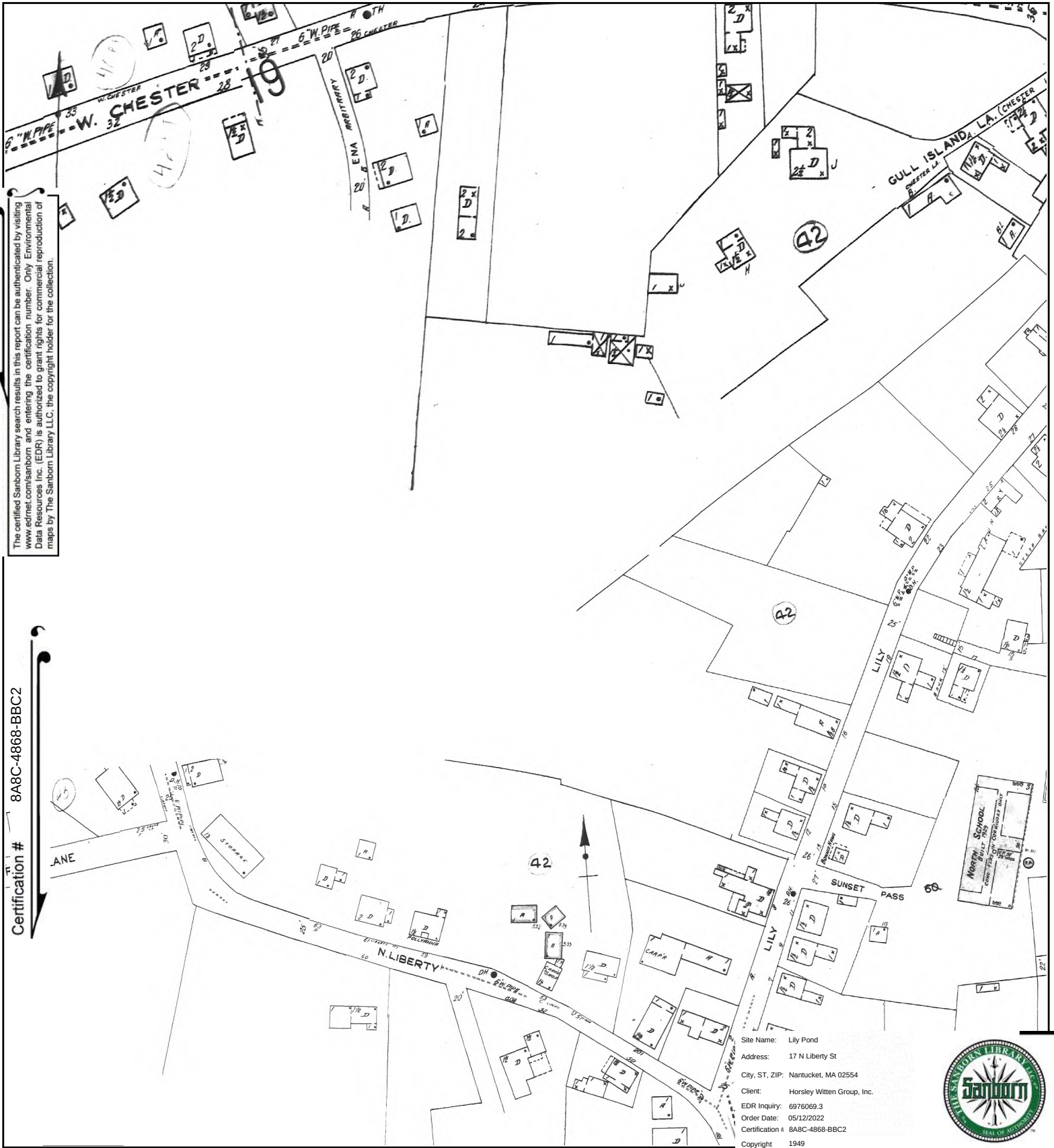
Volume 1, Sheet 4
1887



This Certified Sanborn Map combines the following sheets.
 Outlined areas indicate map sheets within the collection.



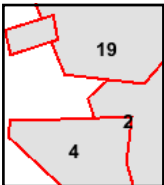
Volume 1, Sheet 19
 Volume 1, Sheet 4
 Volume 1, Sheet 2



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Certification # 8A8C-4868-BBC2

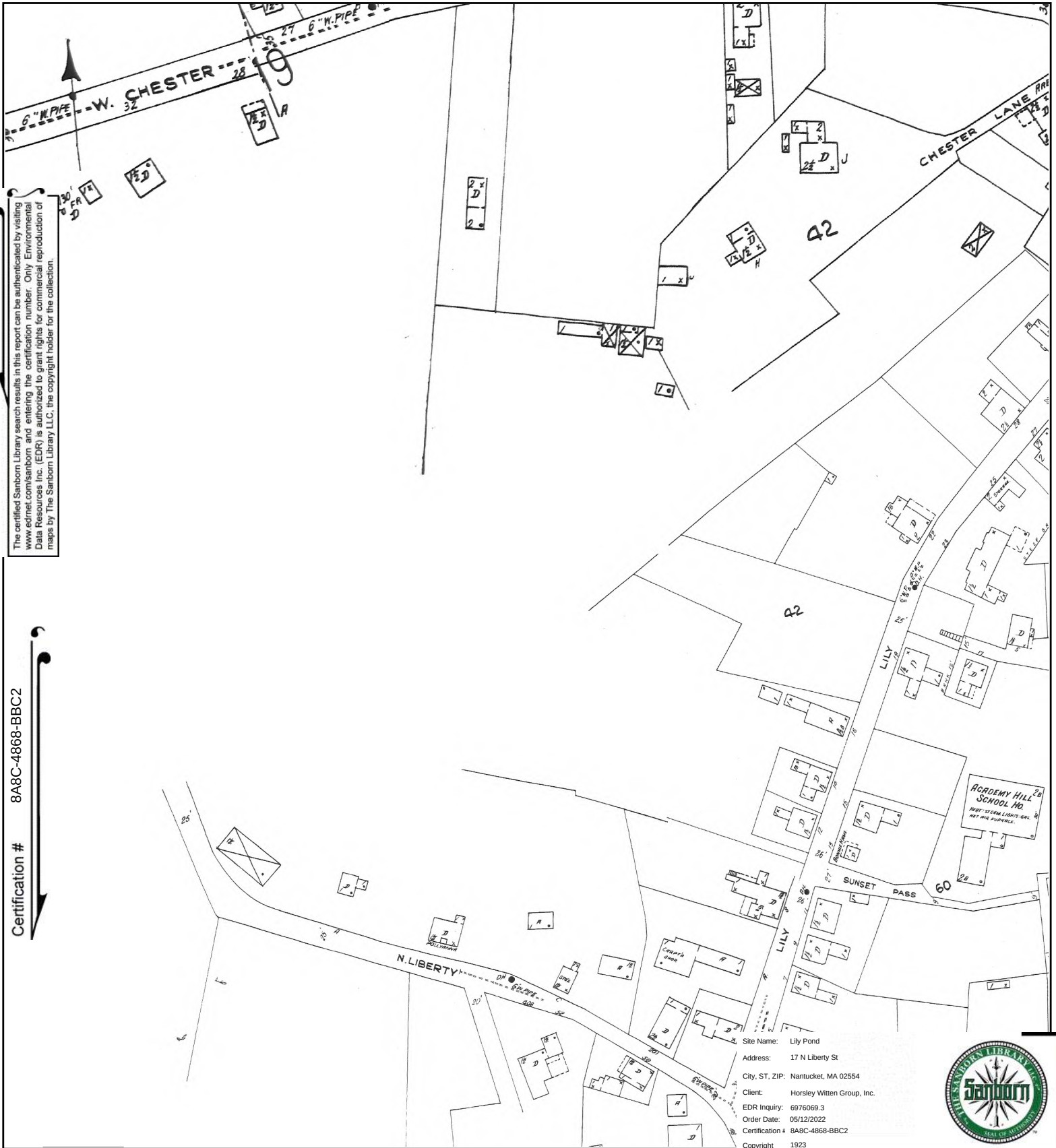
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Outlined areas indicate map sheets within the collection.



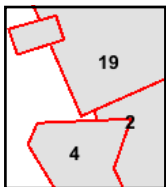
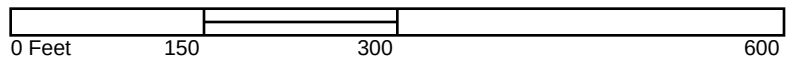
Volume 1, Sheet 19
Volume 1, Sheet 4
Volume 1, Sheet 2

0 Feet 150 300 600





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 Outlined areas indicate map sheets within the collection.

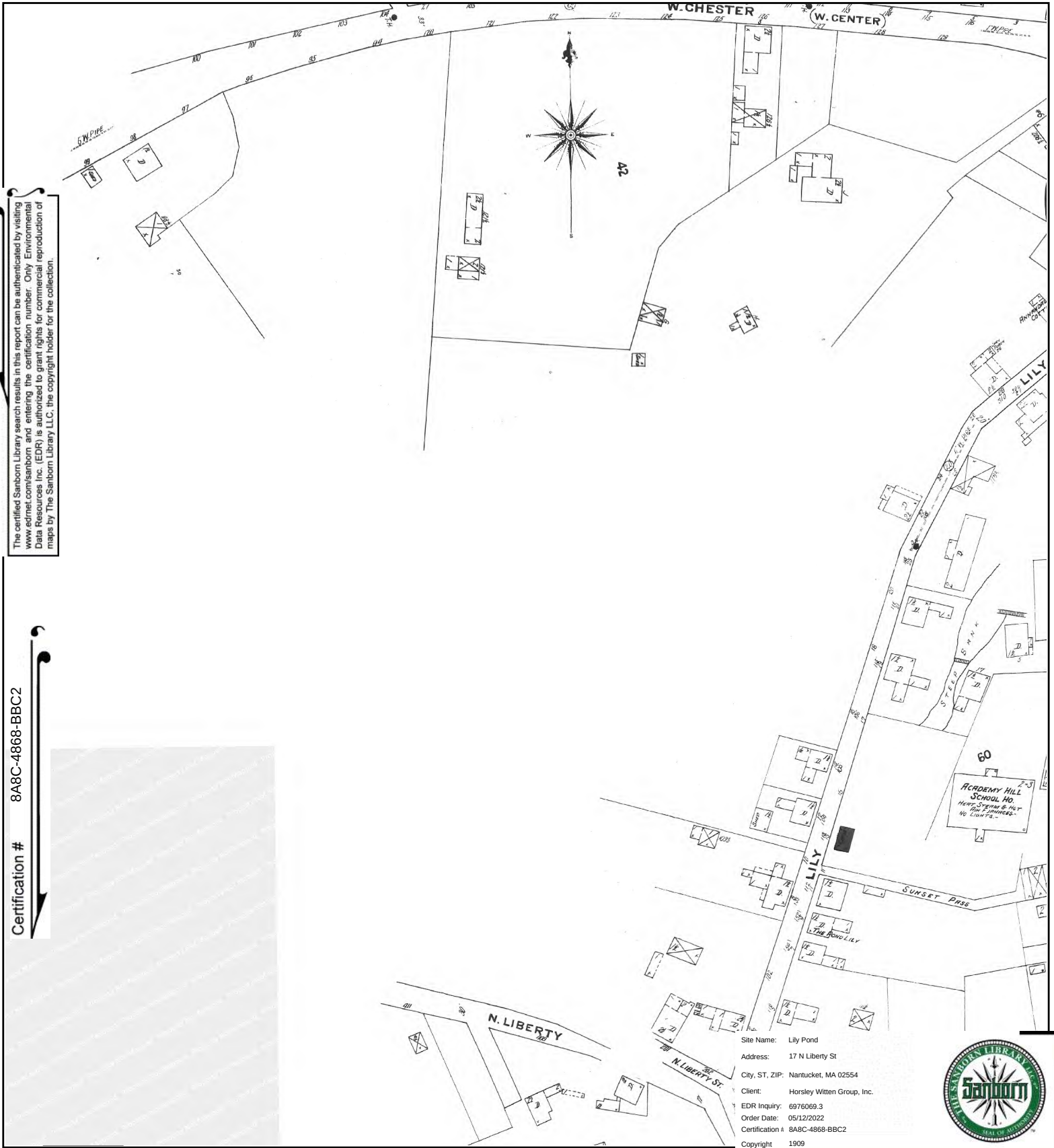


Volume 1, Sheet 19
 Volume 1, Sheet 4
 Volume 1, Sheet 2

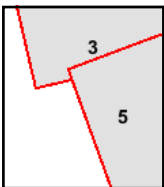


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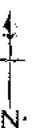
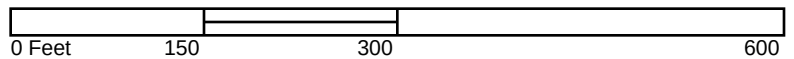
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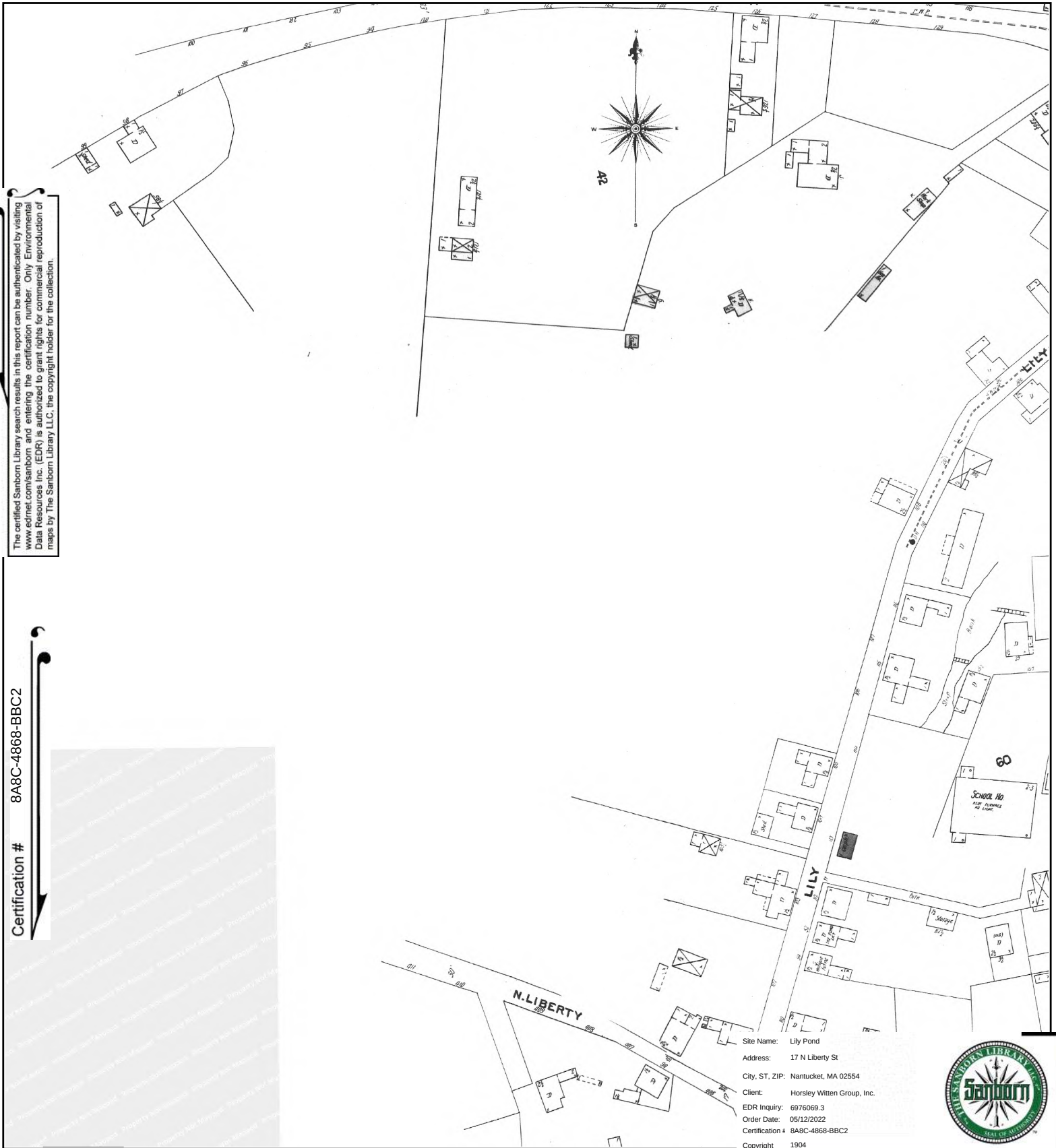


Volume 1, Sheet 5
 Volume 1, Sheet 3



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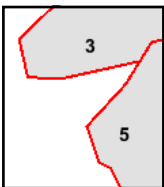
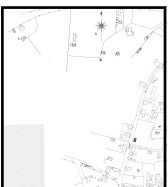
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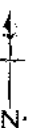
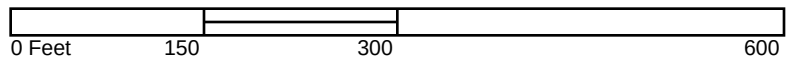
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 Address: 17 N Liberty St
 City, ST, ZIP: Nantucket, MA 02554
 Client: Horsley Witten Group, Inc.
 EDR Inquiry: 6976069.3
 Order Date: 05/12/2022
 Certification # 8A8C-4868-BBC2
 Copyright 1904



This Certified Sanborn Map combines the following sheets.
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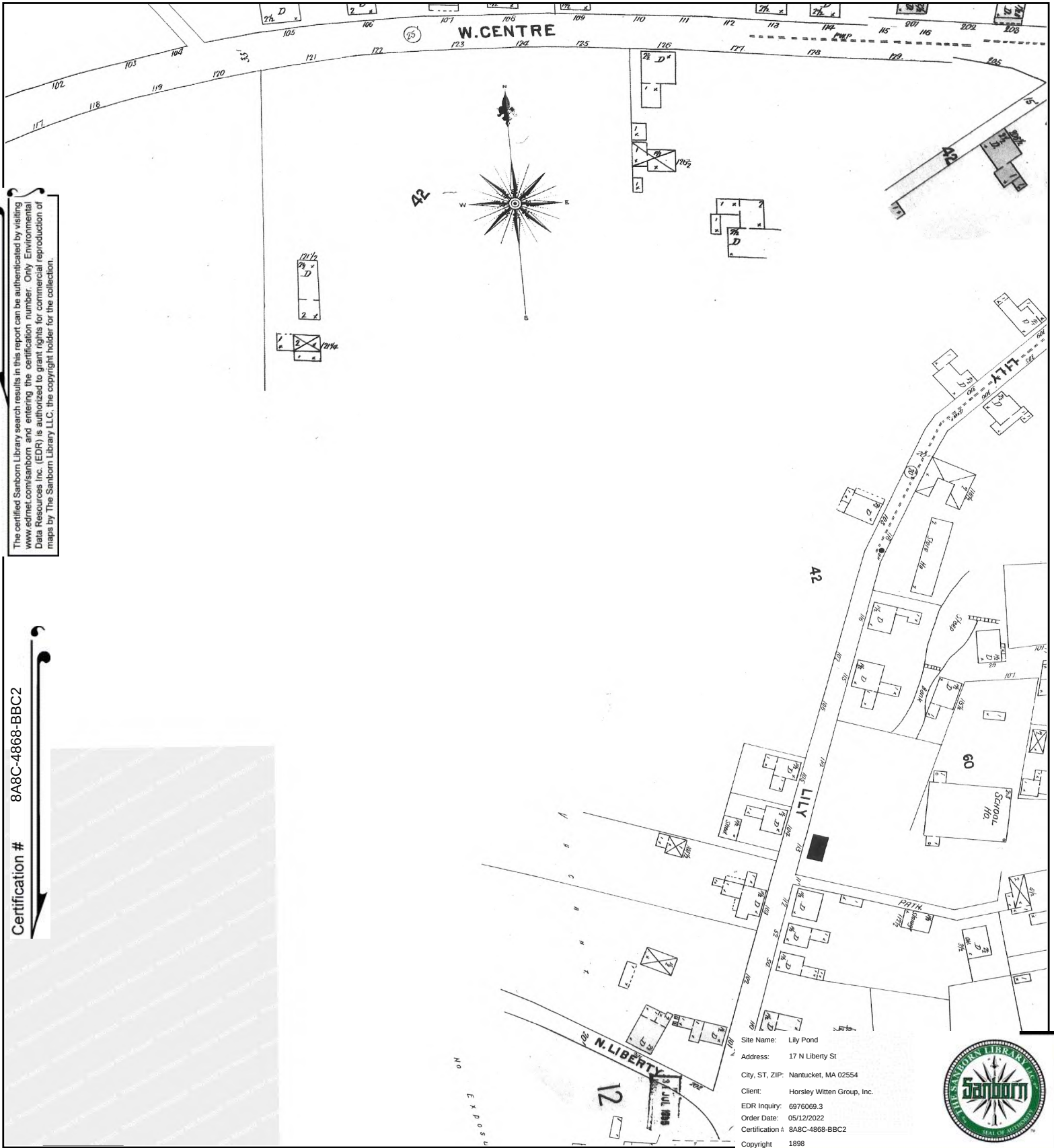


Volume 1, Sheet 5
 Volume 1, Sheet 3

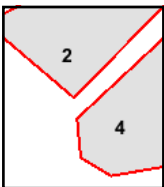


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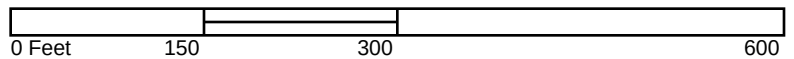
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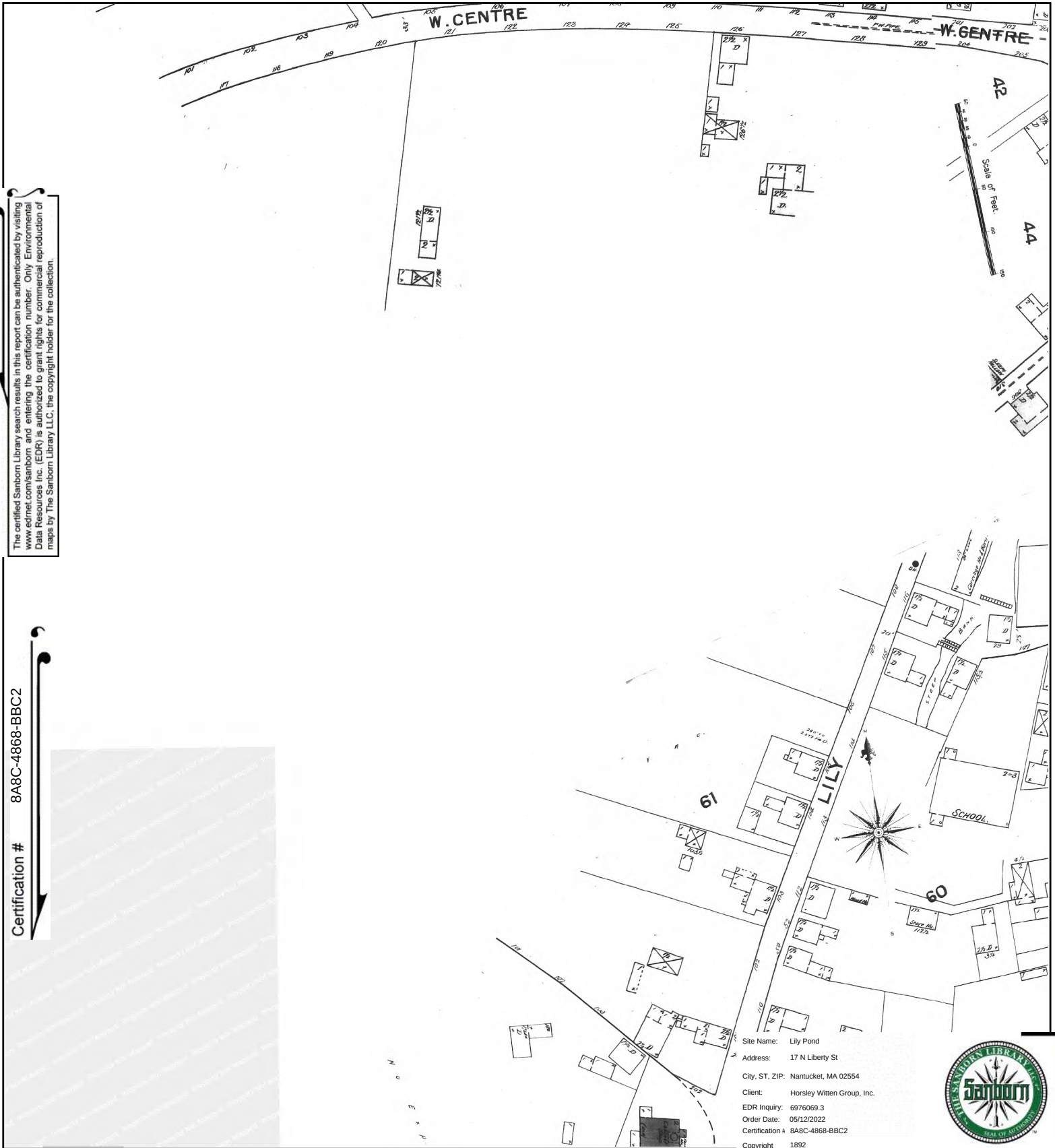


Volume 1, Sheet 2
 Volume 1, Sheet 4

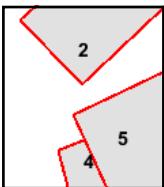
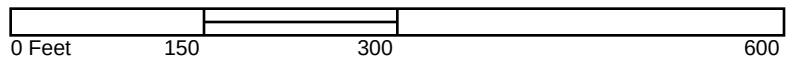


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Certification # 8A8C-4868-BBC2



This Certified Sanborn Map combines the following sheets.
 Outlined areas indicate map sheets within the collection.



Volume 1, Sheet 5
 Volume 1, Sheet 4
 Volume 1, Sheet 2



Site Name: Lily Pond
Address: 17 N Liberty St
City, ST, ZIP: Nantucket, MA 02554
Client: Horsley Witten Group, Inc.
EDR Inquiry: 6976069.3
Order Date: 05/12/2022
Certification #: 8A8C-4868-BBC2
Copyright: 1887

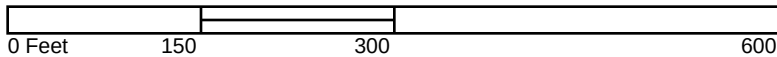


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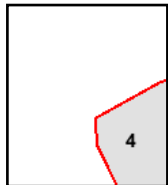
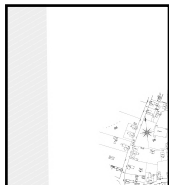
Certification # 8A8C-4868-BBC2



This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.



Volume 1, Sheet 4



Lily Pond

17 N Liberty St

Nantucket, MA 02554

Inquiry Number: 6976069.8

May 13, 2022

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

05/13/22

Site Name:

Lily Pond
17 N Liberty St
Nantucket, MA 02554
EDR Inquiry # 6976069.8

Client Name:

Horsley Witten Group, Inc.
90 Route 6A
Sandwich, MA 02563
Contact: Caroline Armstrong



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Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2008	1"=500'	Flight Year: 2008	USDA/NAIP
1995	1"=500'	Acquisition Date: March 29, 1995	USGS/DOQQ
1991	1"=500'	Flight Date: April 04, 1991	USGS
1982	1"=500'	Flight Date: March 23, 1982	USGS
1975	1"=500'	Flight Date: October 28, 1975	USGS
1969	1"=500'	Flight Date: November 13, 1969	USGS
1960	1"=500'	Flight Date: May 19, 1960	USGS
1951	1"=500'	Flight Date: October 23, 1951	USDA
1938	1"=500'	Flight Date: November 21, 1938	USGS

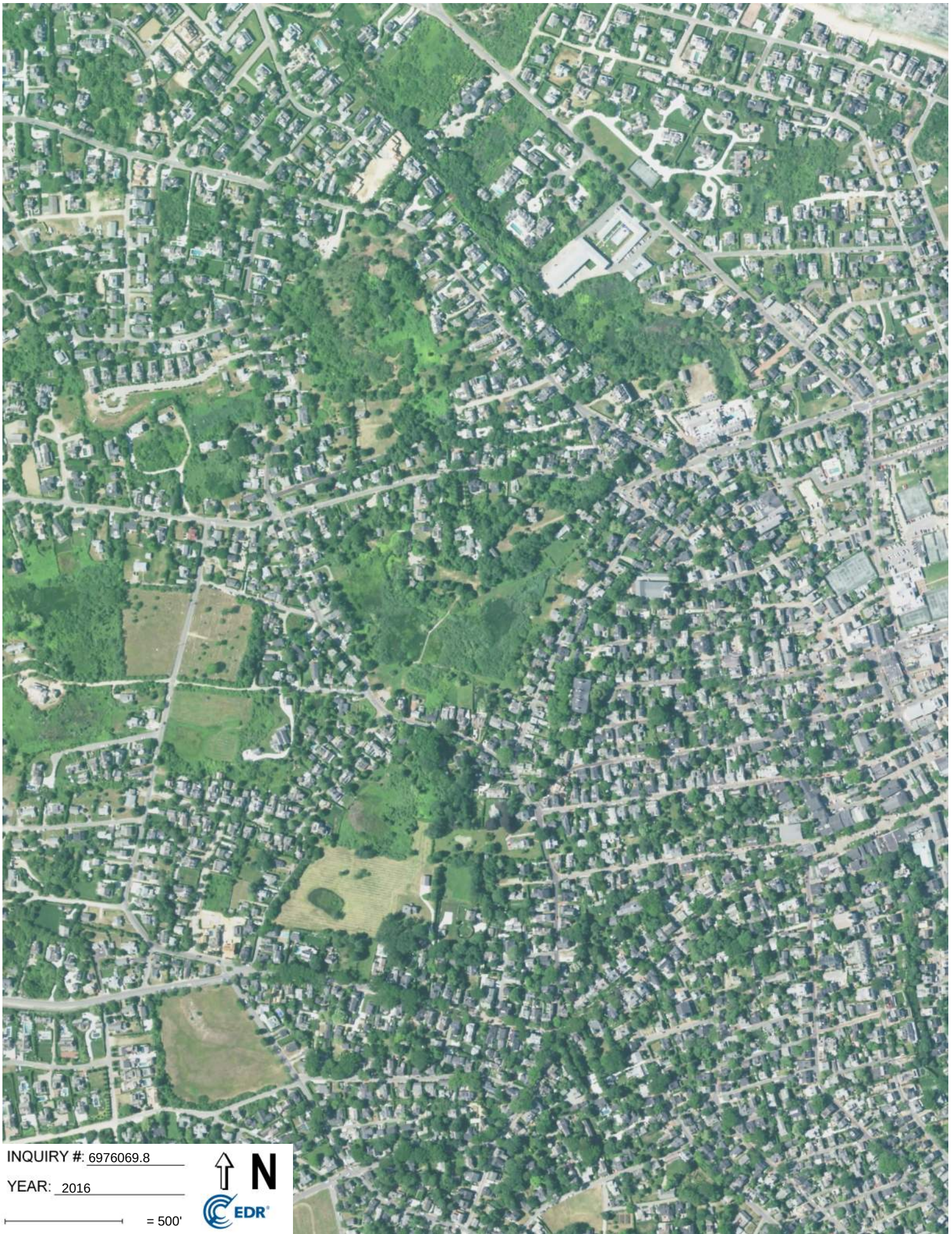
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INQUIRY #: 6976069.8

YEAR: 2016

— = 500'





INQUIRY #: 6976069.8

YEAR: 2012

— = 500'





INQUIRY #: 6976069.8

YEAR: 2008

— = 500'





INQUIRY #: 6976069.8

YEAR: 1995

— = 500'





INQUIRY #: 6976069.8

YEAR: 1991

— = 500'



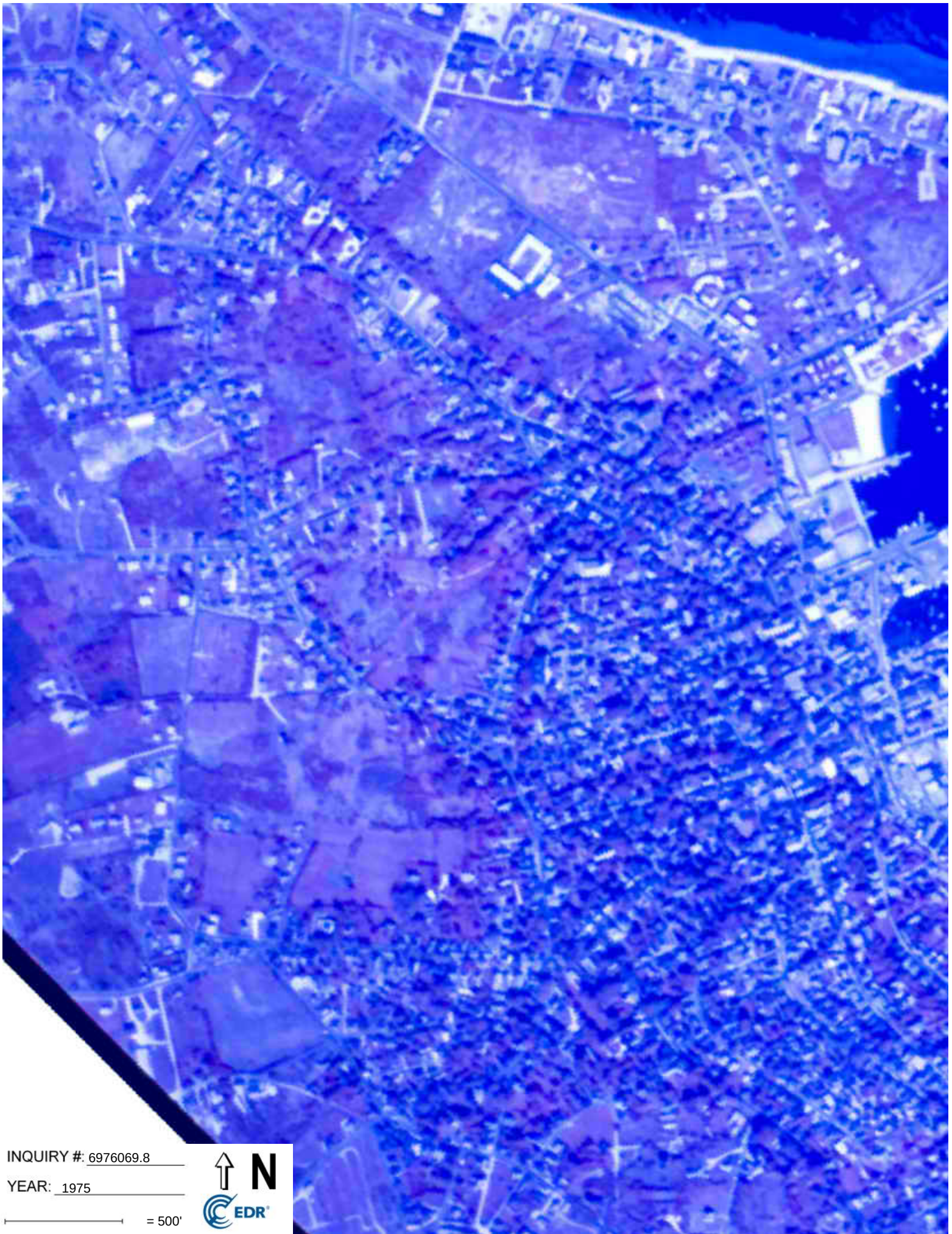


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YEAR: 1982

— = 500'





INQUIRY #: 6976069.8

YEAR: 1975

— = 500'





INQUIRY #: 6976069.8

YEAR: 1969

— = 500'





INQUIRY #: 6976069.8

YEAR: 1960

— = 500'





INQUIRY #: 6976069.8

YEAR: 1951

— = 500'





INQUIRY #: 6976069.8

YEAR: 1938

— = 500'





Lily Pond
17 N Liberty St
Nantucket, MA 02554

Inquiry Number: 6976069.4
May 11, 2022

EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

05/11/22

Site Name:

Lily Pond
17 N Liberty St
Nantucket, MA 02554
EDR Inquiry # 6976069.4

Client Name:

Horsley Witten Group, Inc.
90 Route 6A
Sandwich, MA 02563
Contact: Caroline Armstrong



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Horsley Witten Group, Inc. were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:**Coordinates:**

P.O.#	20008	Latitude:	41.285621 41° 17' 8" North
Project:	Lily Pond Park Nantucket	Longitude:	-70.104936 -70° 6' 18" West
		UTM Zone:	Zone 19 North
		UTM X Meters:	407474.75
		UTM Y Meters:	4571053.19
		Elevation:	12.51' above sea level

Maps Provided:

2018	1901
2015	1893
2012	1889
1977	
1972	
1951	
1945	
1942	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2018 Source Sheets



Siasconset
2018
7.5-minute, 24000



Nantucket
2018
7.5-minute, 24000

2015 Source Sheets



Siasconset
2015
7.5-minute, 24000



Nantucket
2015
7.5-minute, 24000

2012 Source Sheets



Siasconset
2012
7.5-minute, 24000



Nantucket
2012
7.5-minute, 24000

1977 Source Sheets



Nantucket
1977
7.5-minute, 24000
Aerial Photo Revised 1969

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1972 Source Sheets



Siasconset
1972
7.5-minute, 24000
Aerial Photo Revised 1970



Nantucket
1972
7.5-minute, 24000
Aerial Photo Revised 1969

1951 Source Sheets



Siasconset
1951
7.5-minute, 24000

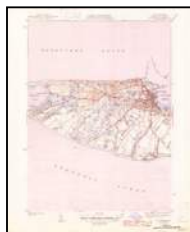


Nantucket
1951
7.5-minute, 24000

1945 Source Sheets



Siasconset
1945
7.5-minute, 31680



Nantucket
1945
7.5-minute, 31680

1942 Source Sheets



Nantucket
1942
30-minute, 125000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1901 Source Sheets



Nantucket
1901
15-minute, 62500

1893 Source Sheets

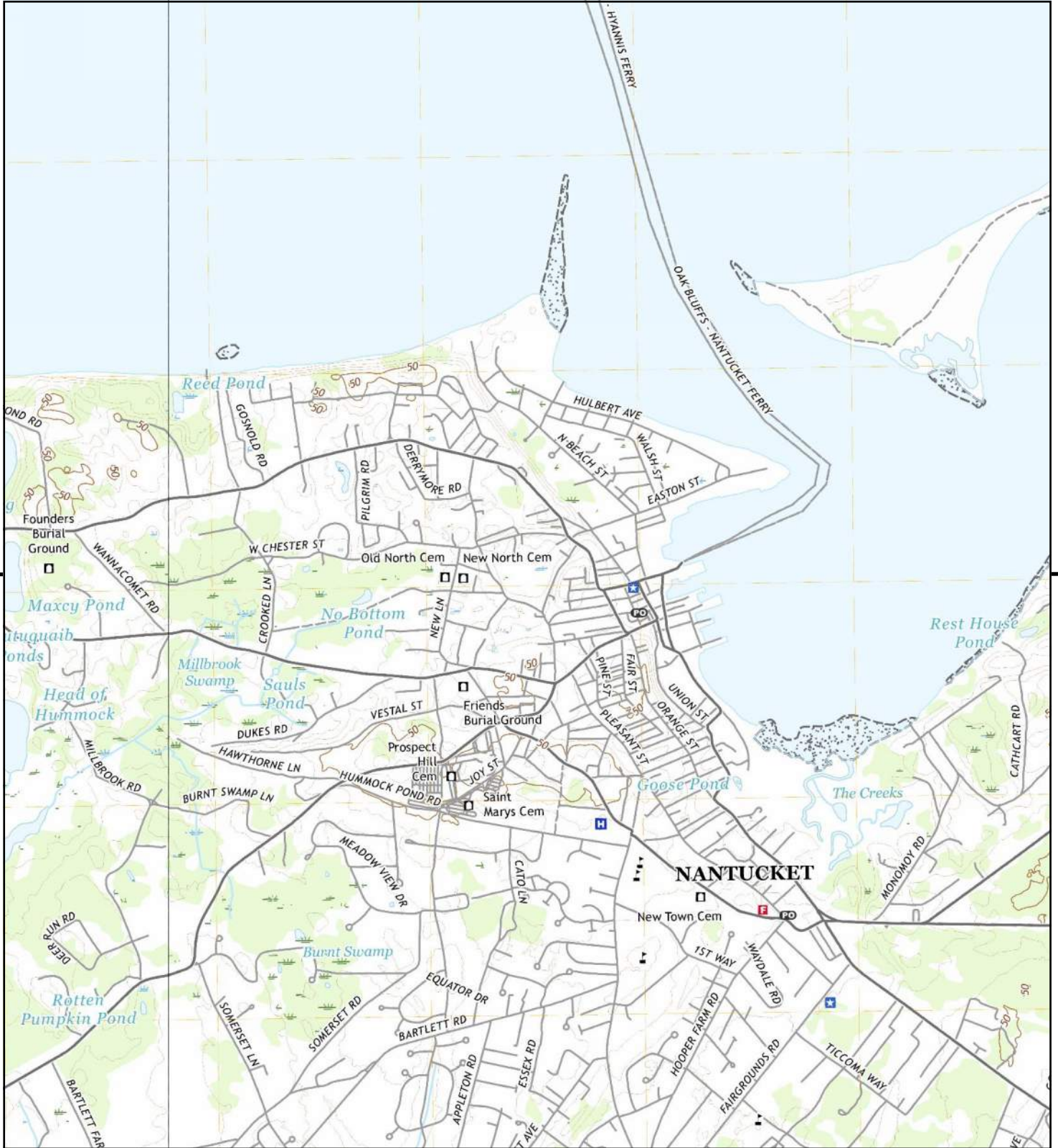


Nantucket
1893
15-minute, 62500

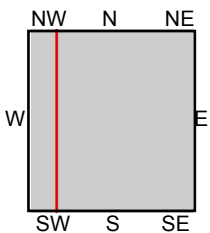
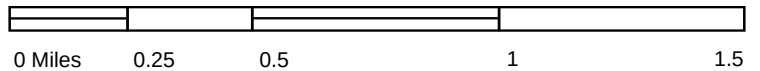
1889 Source Sheets



Nantucket
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15-minute, 62500



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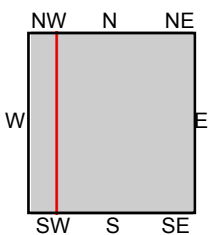
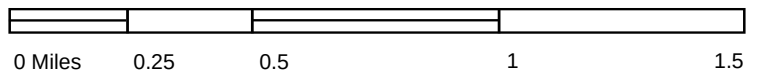
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NW, Nantucket, 2018, 7.5-minute

SITE NAME: Lily Pond
ADDRESS: 17 N Liberty St
Nantucket, MA 02554
CLIENT: Horsley Witten Group, Inc.





This report includes information from the following map sheet(s).



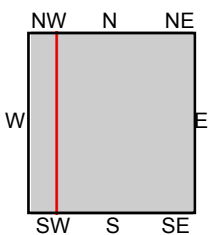
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SITE NAME: Lily Pond
ADDRESS: 17 N Liberty St
Nantucket, MA 02554
CLIENT: Horsley Witten Group, Inc.





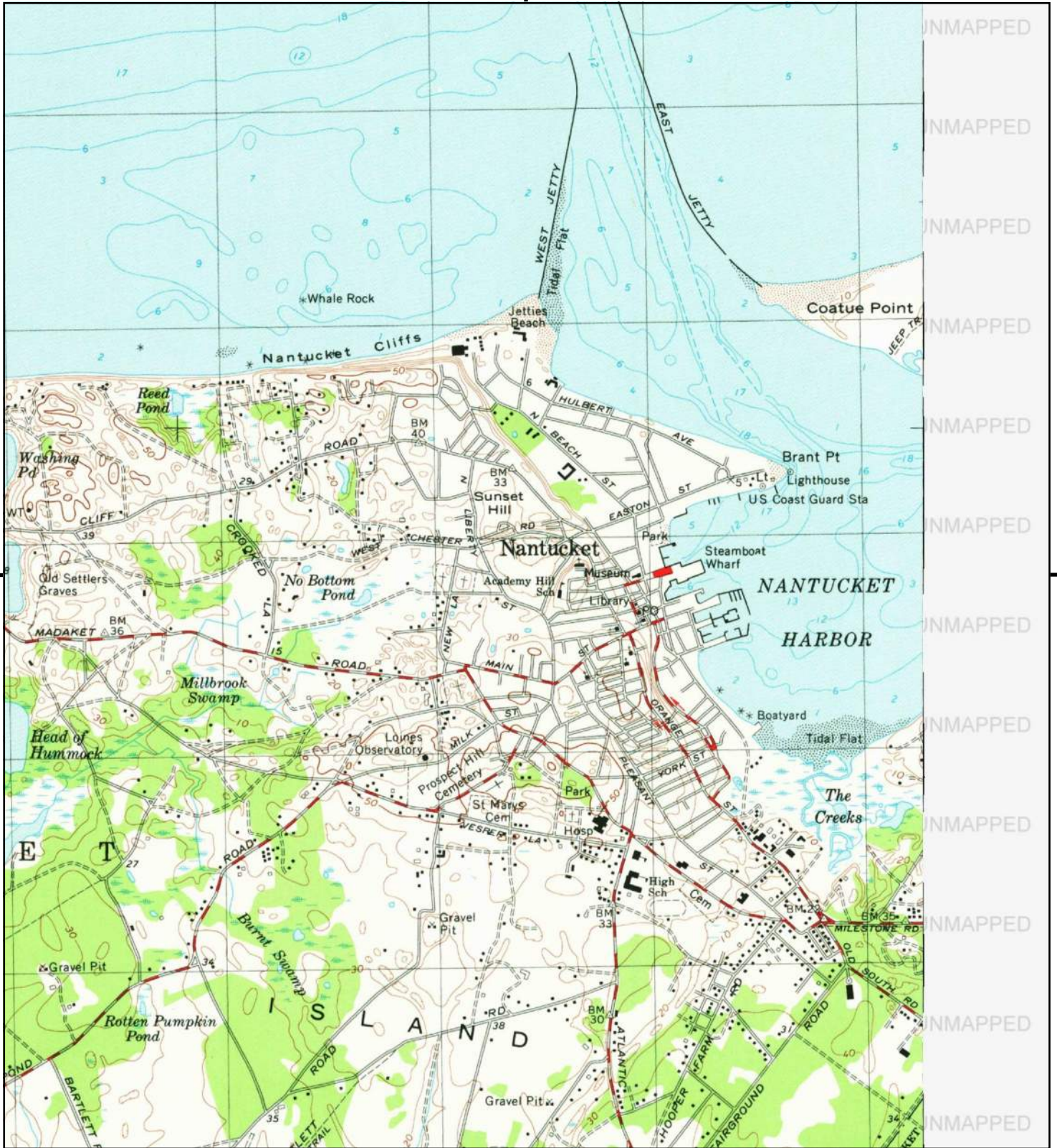
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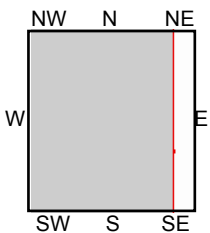
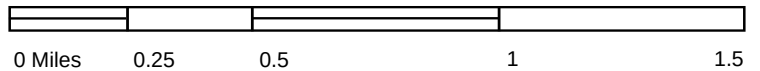
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SITE NAME: Lily Pond
ADDRESS: 17 N Liberty St
Nantucket, MA 02554
CLIENT: Horsley Witten Group, Inc.





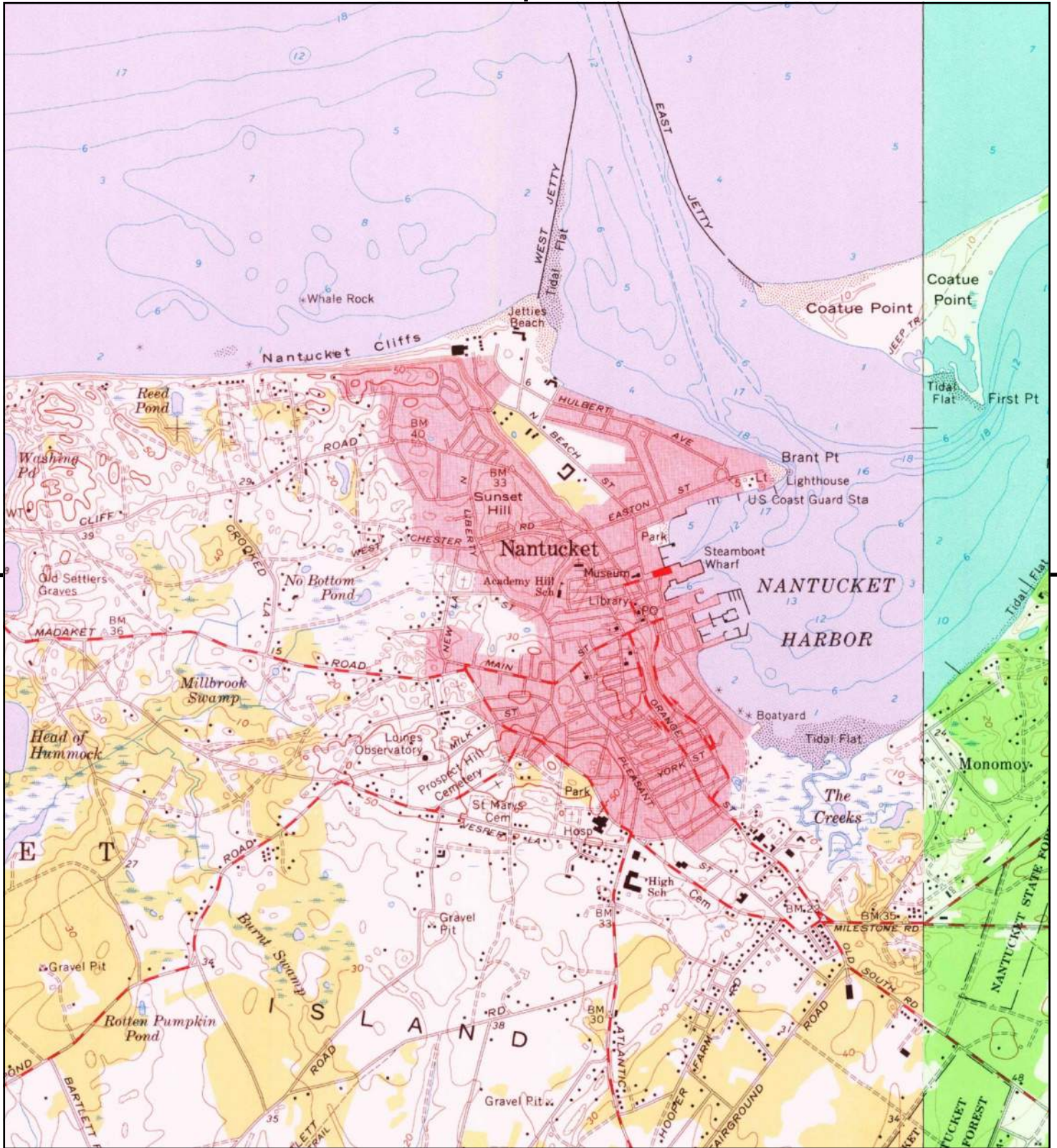
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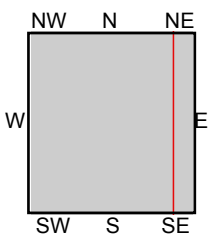
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SITE NAME: Lily Pond
ADDRESS: 17 N Liberty St
Nantucket, MA 02554
CLIENT: Horsley Witten Group, Inc.





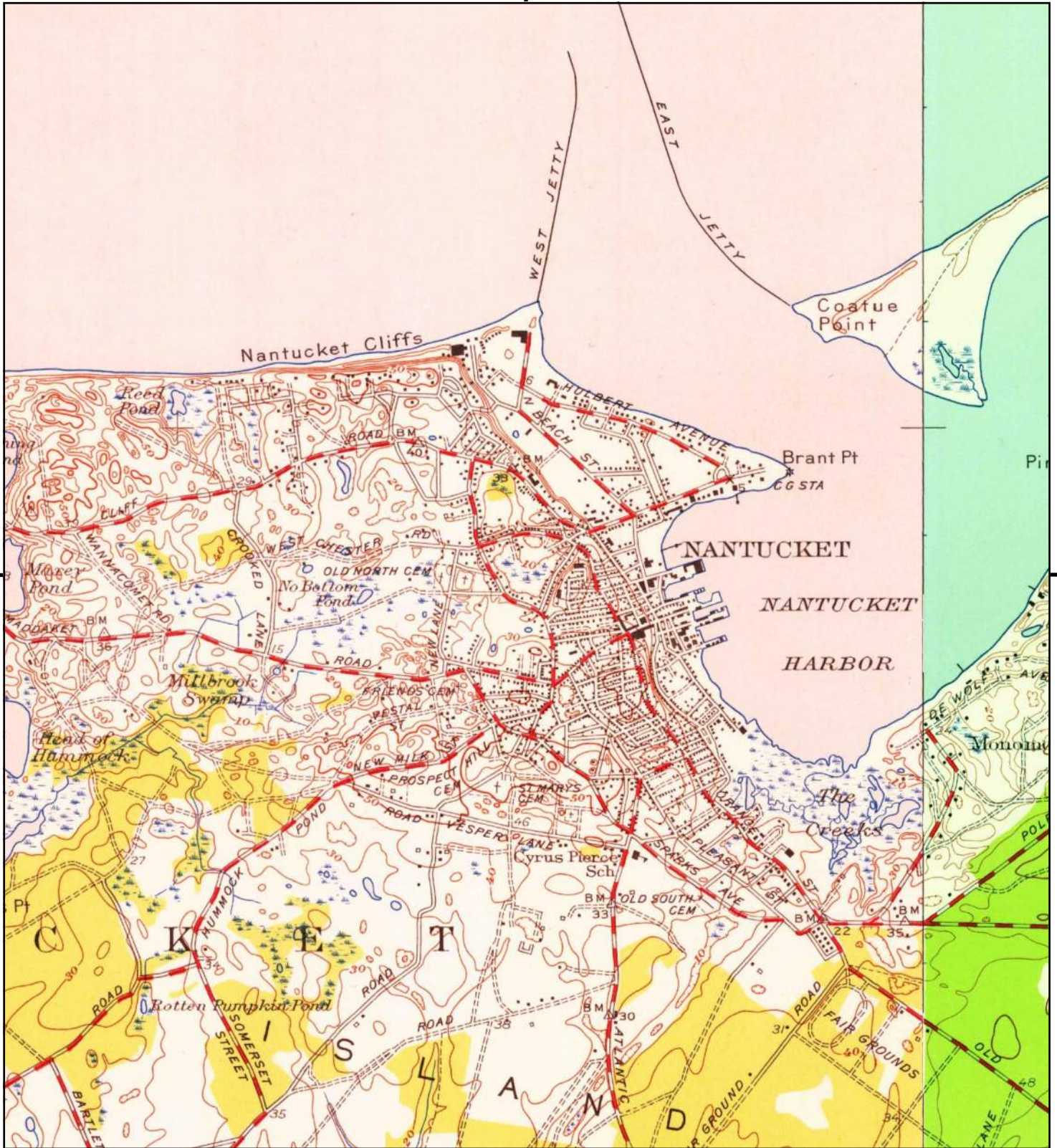
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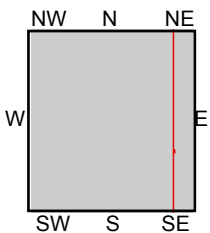
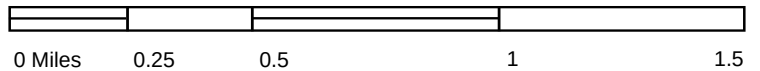
TP, Nantucket, 1972, 7.5-minute
E, Siasconset, 1972, 7.5-minute

SITE NAME: Lily Pond
ADDRESS: 17 N Liberty St
Nantucket, MA 02554
CLIENT: Horsley Witten Group, Inc.





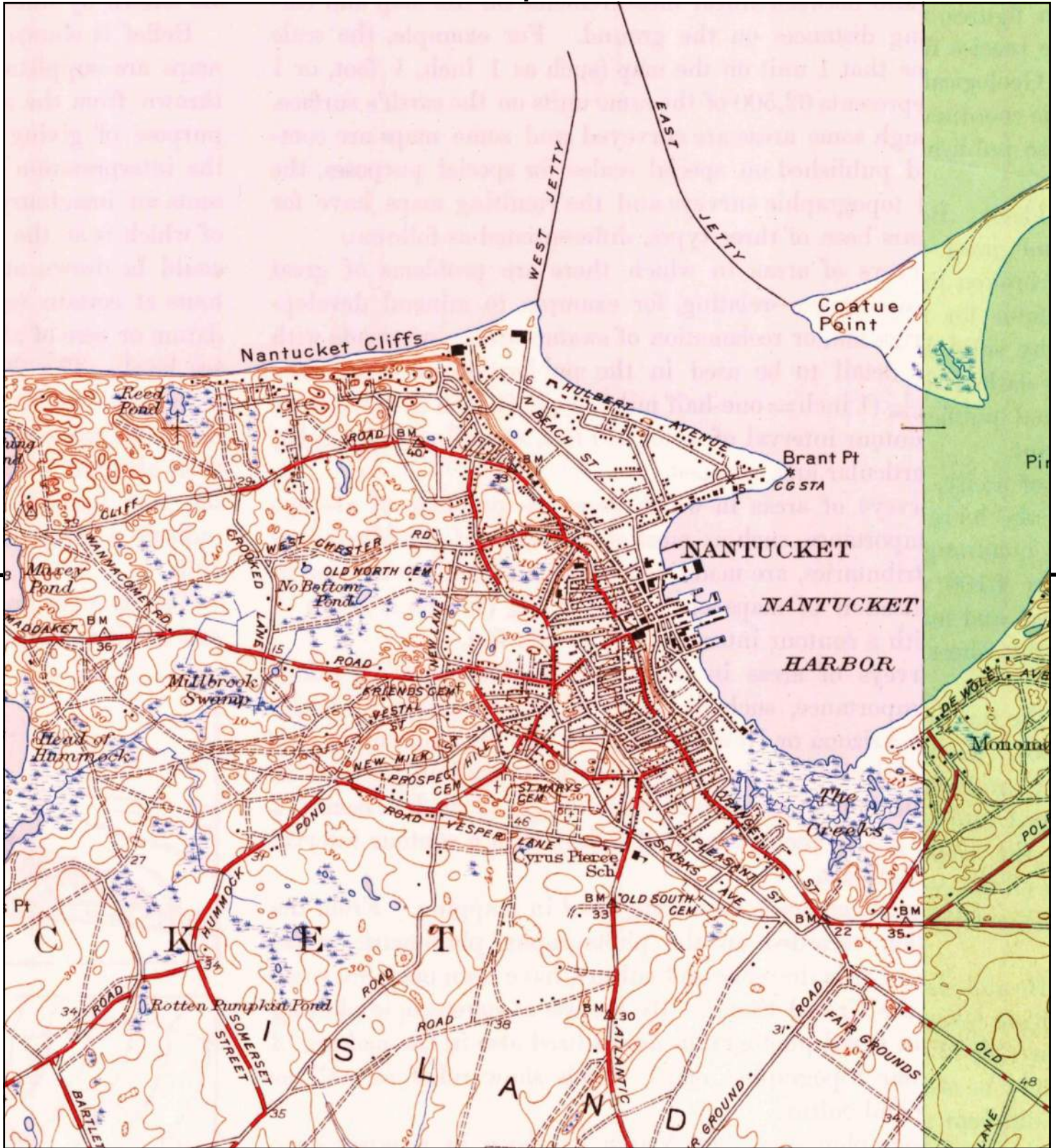
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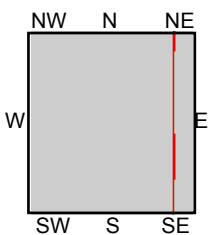
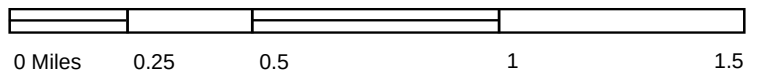
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E, Siasconset, 1951, 7.5-minute

SITE NAME: Lily Pond
ADDRESS: 17 N Liberty St
Nantucket, MA 02554
CLIENT: Horsley Witten Group, Inc.





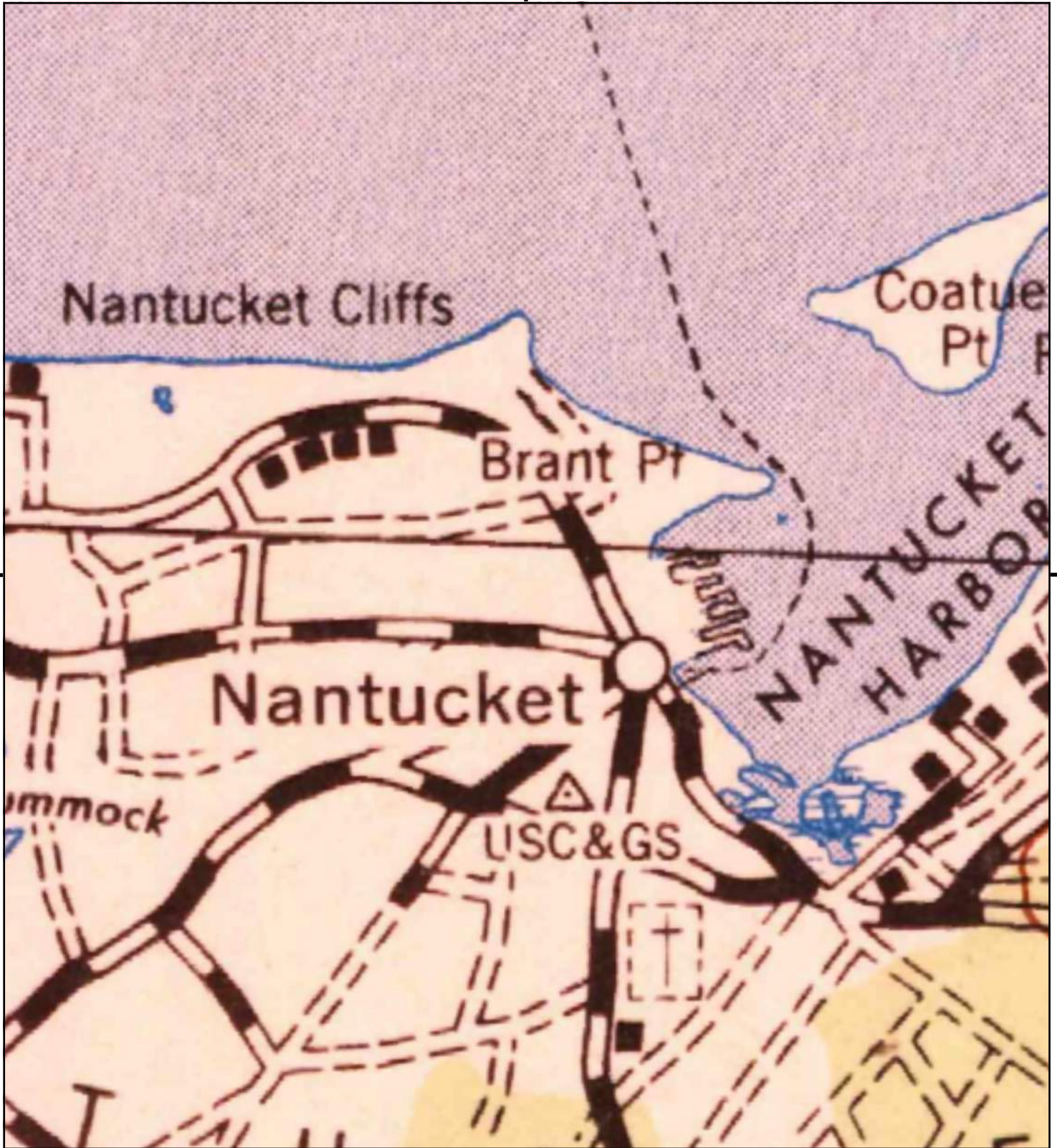
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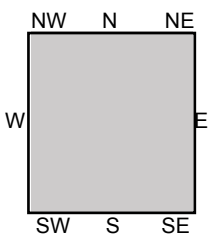
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SITE NAME: Lily Pond
ADDRESS: 17 N Liberty St
Nantucket, MA 02554
CLIENT: Horsley Witten Group, Inc.





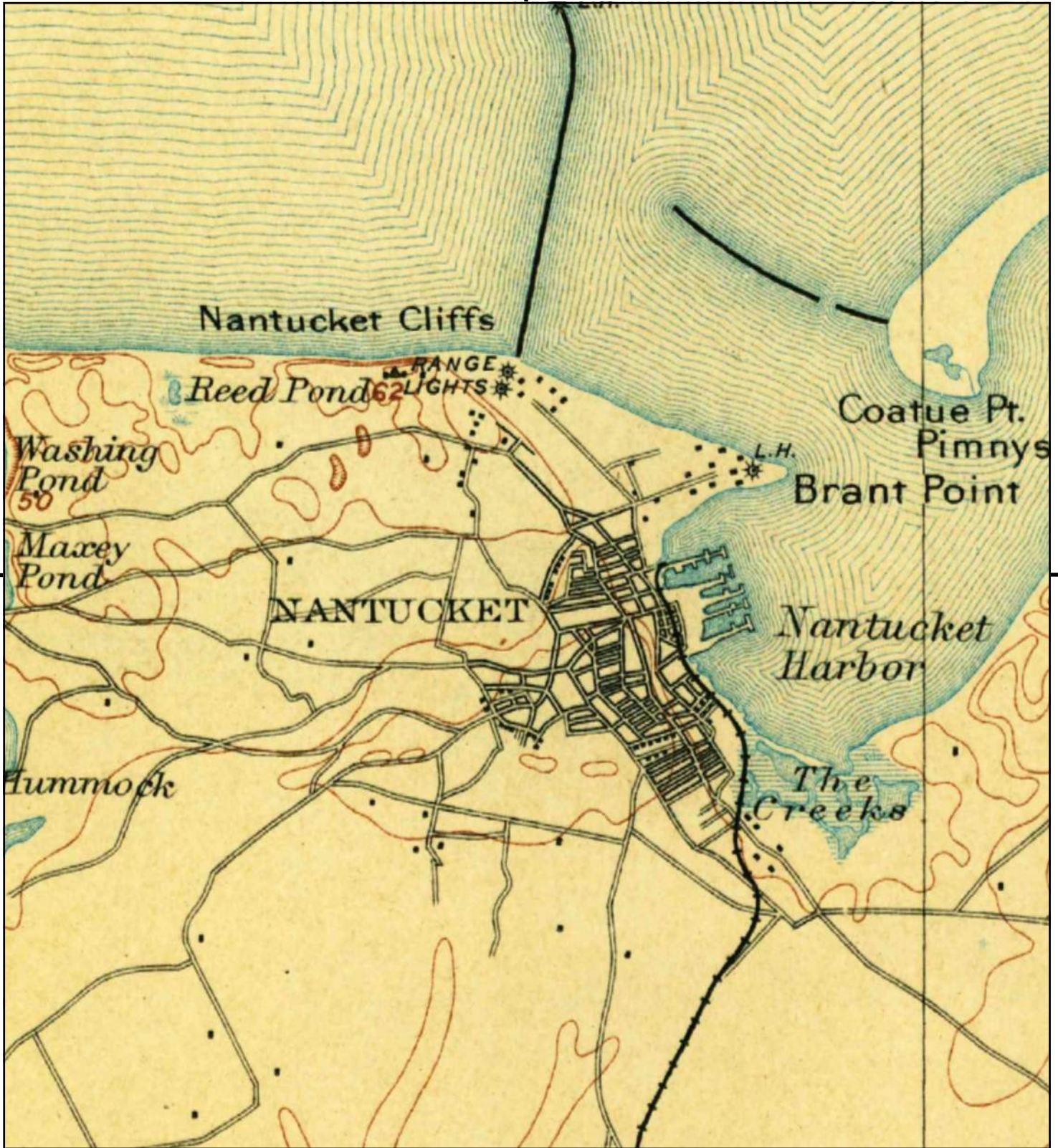
This report includes information from the following map sheet(s).



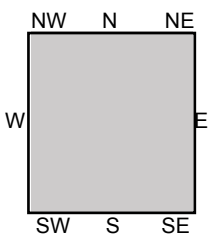
TP, Nantucket, 1942, 30-minute

SITE NAME: Lily Pond
 ADDRESS: 17 N Liberty St
 Nantucket, MA 02554
 CLIENT: Horsley Witten Group, Inc.





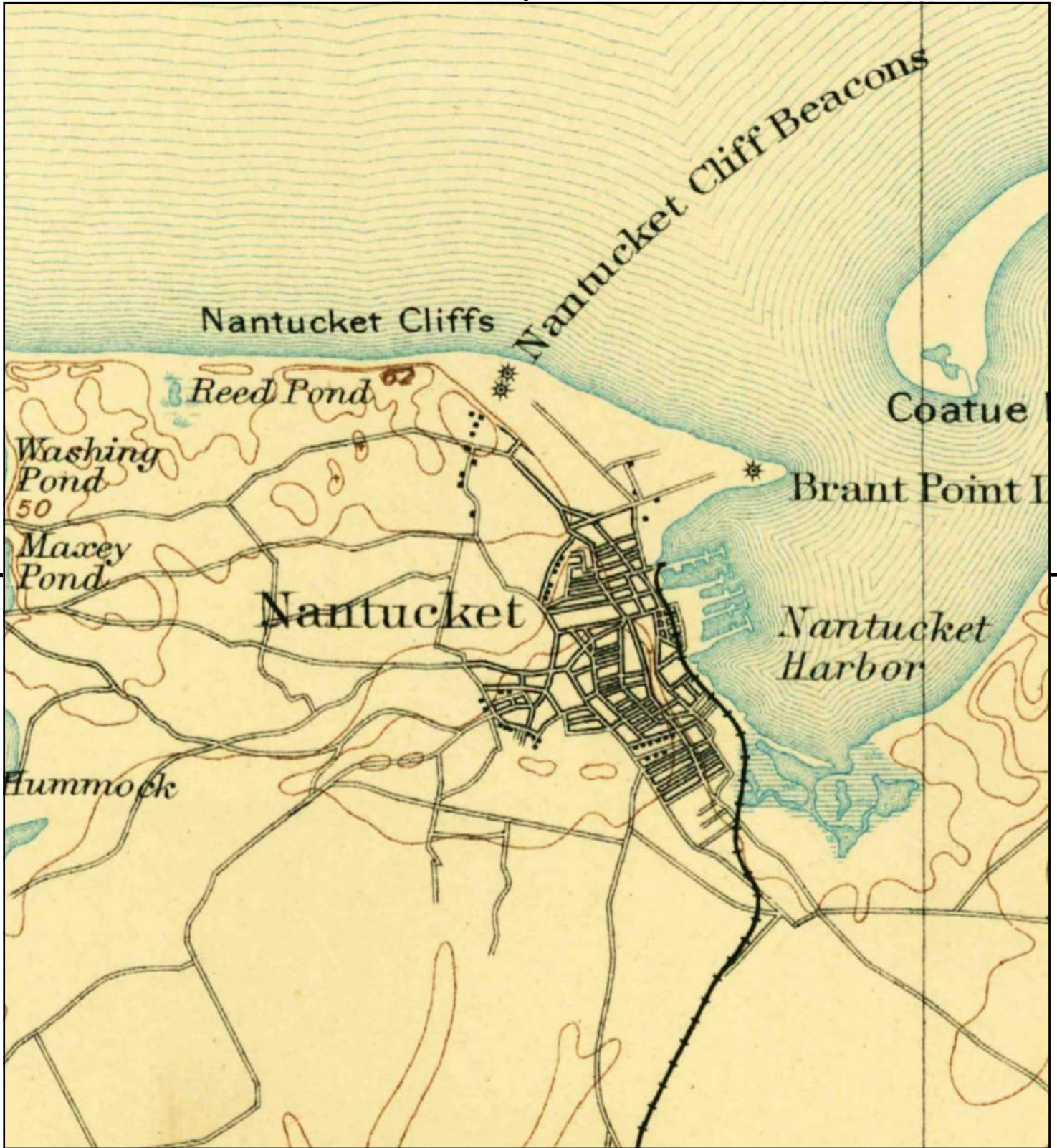
This report includes information from the following map sheet(s).



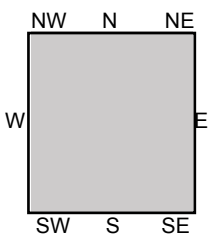
TP, Nantucket, 1901, 15-minute

SITE NAME: Lily Pond
 ADDRESS: 17 N Liberty St
 Nantucket, MA 02554
 CLIENT: Horsley Witten Group, Inc.





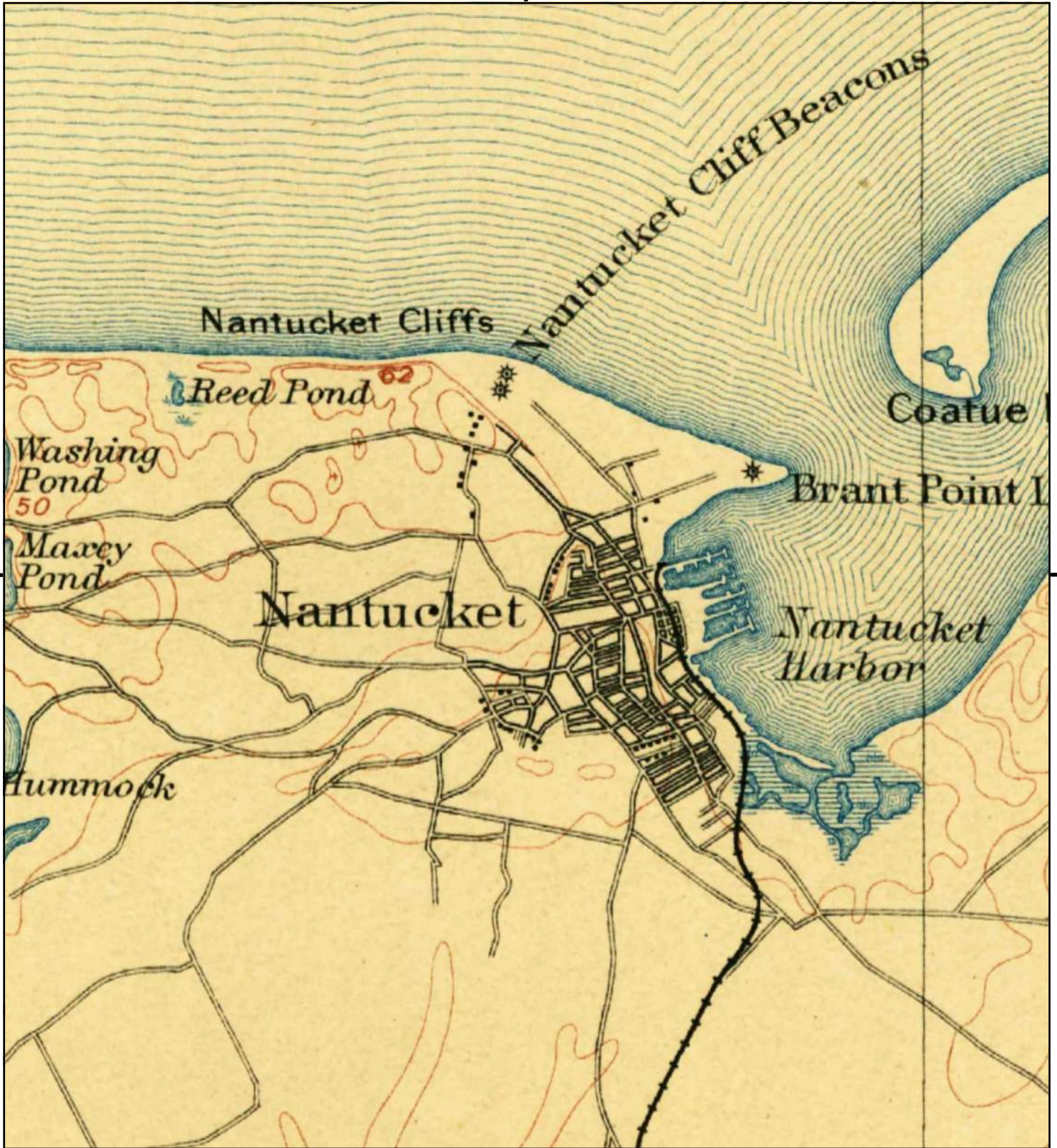
This report includes information from the following map sheet(s).



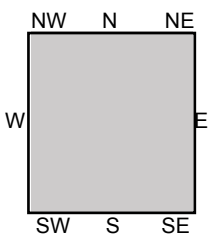
TP, Nantucket, 1893, 15-minute

SITE NAME: Lily Pond
ADDRESS: 17 N Liberty St
Nantucket, MA 02554
CLIENT: Horsley Witten Group, Inc.





This report includes information from the following map sheet(s).



TP, Nantucket, 1889, 15-minute

SITE NAME: Lily Pond
 ADDRESS: 17 N Liberty St
 Nantucket, MA 02554
 CLIENT: Horsley Witten Group, Inc.



CERTIFICATE OF ANALYSIS

Gary Hedman
Horsley & Witten
90 Route 6A
Sandwich, MA 02563

RE: Lily Pond - 401WQ (20008C)
ESS Laboratory Work Order Number: 25C0241

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.



Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 5:56 pm, Apr 22, 2025

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

CTS - Cranston, RI
Microvision Laboratories, Inc. - Chelmsford,
MA

Grain Size Analysis, Water Content
Coal/Wood Ash Determination

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401 WQ

ESS Laboratory Work Order: 25C0241

SAMPLE RECEIPT

The following samples were received on March 07, 2025 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been performed and achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Limit Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

Samples 25C0241-01 through 25C0241-10 for 401 WQ Metals were oven dried at 60 degrees Celsius prior to digestion and relogged in as samples 25C0241-21 through 25C0241-30. This was done to increase the dry weight of the sample digested which decreases variability of results and lowers the detection limits for samples with high water content.

Low Level VOA vials were frozen by the client within 48 hrs.

Tetrahydrofuran is reported above the MA CAM reporting limit of 0.010 mg/kg.

Question I: All samples for EPH and Metals were analyzed for a subset of the required MCP list per the client's request.

Revision 1 April 22, 2025: This report has been revised to include TCLP Lead on samples 25C0241-05 and 06, Coal Ash on samples 25C0241-01, 04, 05, and 06 per the client's request, and to include lead redigests of 25C0241-01 and 21 reported as RE1 and RE2 for each sample.

<u>Lab Number</u>	<u>Sample Name</u>	<u>Matrix</u>	<u>Analysis</u>
25C0241-01	2025-SS-1	Sediment	1010A, 2540G, 2550B, 6010D, 7.3.3.2, 7.3.4.1, 7471B, 8081B, 8082A Cong, 8100M, 8151A, 8270E, 9045, 9050A, EPH8270, EPH8270SIM, LK, MADEP-EPH, SUB

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten

Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

25C0241-02	2025-SS-2	Sediment	1010A, 2540G, 2550B, 6010D, 7.3.3.2, 7.3.4.1, 7471B, 8081B, 8082A Cong, 8100M, 8151A, 8270E, 9045, 9050A, EPH8270, EPH8270SIM, LK, MADEP-EPH, SUB
25C0241-03	2025-SS-3	Sediment	1010A, 2540G, 2550B, 6010D, 7.3.3.2, 7.3.4.1, 7471B, 8081B, 8082A Cong, 8100M, 8151A, 8270E, 9045, 9050A, EPH8270, EPH8270SIM, LK, MADEP-EPH, SUB
25C0241-04	2025-SS-4	Sediment	1010A, 2540G, 2550B, 6010D, 7.3.3.2, 7.3.4.1, 7471B, 8081B, 8082A Cong, 8100M, 8151A, 8270E, 9045, 9050A, EPH8270, EPH8270SIM, LK, MADEP-EPH, SUB
25C0241-05	2025-SS-5	Sediment	1010A, 1311, 2540G, 2550B, 6010D, 7.3.3.2, 7.3.4.1, 7471B, 8081B, 8082A Cong, 8100M, 8151A, 8270E, 9045, 9050A, EPH8270, EPH8270SIM, LK, MADEP-EPH, SUB, XXXX
25C0241-06	2025-SS-6	Sediment	1010A, 1311, 2540G, 2550B, 6010D, 7.3.3.2, 7.3.4.1, 7471B, 8081B, 8082A Cong, 8100M, 8151A, 8270E, 9045, 9050A, EPH8270, EPH8270SIM, LK, MADEP-EPH, SUB, XXXX
25C0241-07	2025-SS-7	Sediment	1010A, 2540G, 2550B, 6010D, 7.3.3.2, 7.3.4.1, 7471B, 8081B, 8082A Cong, 8100M, 8151A, 8270E, 9045, 9050A, EPH8270, EPH8270SIM, LK, MADEP-EPH, SUB
25C0241-08	2025-SS-8	Sediment	1010A, 2540G, 2550B, 6010D, 7.3.3.2, 7.3.4.1, 7471B, 8081B, 8082A Cong, 8100M, 8151A, 8270E, 9045, 9050A, EPH8270, EPH8270SIM, LK, MADEP-EPH, SUB
25C0241-09	2025-SS-9	Sediment	1010A, 2540G, 2550B, 6010D, 7.3.3.2, 7.3.4.1, 7471B, 8081B, 8082A Cong, 8100M, 8151A, 8270E, 9045, 9050A, EPH8270, EPH8270SIM, LK, MADEP-EPH, SUB
25C0241-10	2025-SS-10	Sediment	1010A, 2540G, 2550B, 6010D, 7.3.3.2, 7.3.4.1, 7471B, 8081B, 8082A Cong, 8100M, 8151A, 8270E, 9045, 9050A, EPH8270, EPH8270SIM, LK, MADEP-EPH, SUB
25C0241-11	2025-SS-1A	Sediment	8260D Low
25C0241-12	2025-SS-2C	Sediment	8260D Low
25C0241-13	2025-SS-3A	Sediment	8260D Low
25C0241-14	2025-SS-4B	Sediment	8260D Low
25C0241-15	2025-SS-5C	Sediment	8260D Low
25C0241-16	2025-SS-6A	Sediment	8260D Low
25C0241-17	2025-SS-7B	Sediment	8260D Low
25C0241-18	2025-SS-8C	Sediment	8260D Low
25C0241-19	2025-SS-9A	Sediment	8260D Low
25C0241-20	2025-SS-10C	Sediment	8260D Low

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten

Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

25C0241-21	2025-SS-1 - Oven Dried	Sediment	6010D, 7471B
25C0241-22	2025-SS-2 - Oven Dried	Sediment	6010D, 7471B
25C0241-23	2025-SS-3 - Oven Dried	Sediment	6010D, 7471B
25C0241-24	2025-SS-4 - Oven Dried	Sediment	6010D, 7471B
25C0241-25	2025-SS-5 - Oven Dried	Sediment	6010D, 7471B
25C0241-26	2025-SS-6 - Oven Dried	Sediment	6010D, 7471B
25C0241-27	2025-SS-7 - Oven Dried	Sediment	6010D, 7471B
25C0241-28	2025-SS-8 - Oven Dried	Sediment	6010D, 7471B
25C0241-29	2025-SS-9 - Oven Dried	Sediment	6010D, 7471B
25C0241-30	2025-SS-10 - Oven Dried	Sediment	6010D, 7471B

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

PROJECT NARRATIVE

8081B Organochlorine Pesticides

25C0241-02 Lower value is used due to matrix interferences (LC).
4,4'-DDE [2C]

25C0241-02 Percent difference between primary and confirmation results exceeds 40% (P).
4,4'-DDE [2C]

25C0241-05 Lower value is used due to matrix interferences (LC).
4,4'-DDD [2C]

25C0241-05 Percent difference between primary and confirmation results exceeds 40% (P).
4,4'-DDD [2C]

25C0241-08 Lower value is used due to matrix interferences (LC).
4,4'-DDD [2C]

25C0241-08 Percent difference between primary and confirmation results exceeds 40% (P).
4,4'-DDD [2C]

8082 Polychlorinated Biphenyls (PCB) / Congeners

25C0241-02 Lower value is used due to matrix interferences (LC).
BZ#105 , BZ#170 , BZ#209

25C0241-02 Percent difference between primary and confirmation results exceeds 40% (P).
BZ#105 , BZ#170 , BZ#209

25C0241-03 Lower value is used due to matrix interferences (LC).
BZ#105 , BZ#138 , BZ#153 [2C] , BZ#187

25C0241-03 Percent difference between primary and confirmation results exceeds 40% (P).
BZ#105 , BZ#138 , BZ#153 [2C] , BZ#187

25C0241-06 Lower value is used due to matrix interferences (LC).
BZ#101 , BZ#105 , BZ#118 [2C] , BZ#138 , BZ#153 [2C]

25C0241-06 Percent difference between primary and confirmation results exceeds 40% (P).
BZ#101 , BZ#105 , BZ#118 [2C] , BZ#138 , BZ#153 [2C]

Semi-Volatile Organic Compounds

D5C0182-CCV1 Calibration required quadratic regression (Q).
2,4-Dinitrophenol (75% @ 40-160%)

D5C0182-CCV1 Continuing Calibration %Diff/Drift is below control limit (CD-).
N-Nitrosodimethylamine (24% @ 20%)

D5C0182-TUN1 DDT breakdown > 20%

Total Metals

25C0241-03 Elevated Method Reporting Limits due to sample matrix (EL).
Arsenic

DC51107-SRM1 Standard Reference Material is biased low (R-).
Lead (77% @ 81-120%)

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Volatile Organics Low Level

25C0241-17 Internal Standard(s) outside of criteria. Sample was reanalyzed to confirm (IC).
1,4-Dichlorobenzene-D4 (45% @ 50-200%)

25C0241-17RE1 Internal Standard(s) outside of criteria. Sample was reanalyzed to confirm (IC).
1,4-Dichlorobenzene-D4 (45% @ 50-200%)

25C0241-18 Internal Standard(s) outside of criteria. Sample was reanalyzed to confirm (IC).
1,4-Dichlorobenzene-D4 (38% @ 50-200%)

25C0241-18RE1 Internal Standard(s) outside of criteria. Sample was reanalyzed to confirm (IC).
1,4-Dichlorobenzene-D4 (40% @ 50-200%)

D5C0185-CCV1 Calibration required quadratic regression (Q).
Bromoform (106% @ 40-160%)

D5C0185-CCV1 Continuing Calibration %Diff/Drift is below control limit (CD-).
Vinyl Chloride (32% @ 20%)

D5C0208-CCV1 Calibration required quadratic regression (Q).
Bromoform (100% @ 40-160%)

DC51032-BS1 Blank Spike recovery is below lower control limit (B-).
Vinyl Chloride (56% @ 70-130%)

DC51032-BSD1 Blank Spike recovery is below lower control limit (B-).
Vinyl Chloride (59% @ 70-130%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010D - ICP
6020B - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260D - VOA
8270E - SVOA
8270E SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 19-2.1 - EPH
MADEP 18-2.1 - VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **25C0241-01 through 25C0241-30**

Matrices: ☐ Ground Water/Surface Water ☒ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other: _____

CAM Protocol (check all that apply below):

☐ 8260 VOC CAM II A	☒ 7470/7471 Hg CAM III B	☐ MassDEP VPH (GC/PID/FID) CAM IV A	☒ 8082 PCB CAM V A	☐ 9014 Total Cyanide/PAC CAM VI A	☐ 6860 Perchlorate CAM VIII B
☒ 8270 SVOC CAM II B	☐ 7010 Metals CAM III C	☐ MassDEP VPH (GC/MS) CAM IV C	☒ 8081 Pesticides CAM V B	☐ 7196 Hex Cr CAM VI B	☐ MassDEP APH CAM IX A
☒ 6010 Metals CAM III A	☐ 6020 Metals CAM III D	☒ MassDEP EPH CAM IV B	☒ 8151 Herbicides CAM V C	☐ Explosives CAM VIII A	☐ TO-15 VOC CAM IX B

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes ☒ No ☐
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes ☒ No ☐
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes ☒ No ☐
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes ☒ No ☐
E	VPH, EPH, APH and TO-15 only: a. Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	Yes ☒ No ☐
	b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ☐ No ☐
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes ☒ No ☐

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)? <i>Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.</i>	Yes ☐ No ☒ *
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	Yes ☐ No ☒ *
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ☐ No ☒ *

****All negative responses must be addressed in an attached laboratory narrative.***

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

Signature: _____

Printed Name: Laurel Stoddard

Date: March 21, 2025

Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-1
Date Sampled: 03/05/25 13:20
Percent Solids: 64

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-01
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Arsenic	2.35 (1.45)	---	6010D	---	1	CEV	03/10/25 18:46	5.37 100	DC51007
Barium	44.0 (0.58)	---	6010D	---	1	CEV	03/10/25 18:46	5.37 100	DC51007
Cadmium	ND (0.29)	---	6010D	---	1	CEV	03/10/25 18:46	5.37 100	DC51007
Chromium	10.3 (0.58)	---	6010D	---	1	CEV	03/10/25 18:46	5.37 100	DC51007
Lead	79.5 (2.91)	---	6010D	---	1	CEV	03/10/25 18:46	5.37 100	DC51007
Mercury	0.077 (0.015)	---	7471B	---	1	BJV	03/11/25 12:43	2.04 40	DC51008
Selenium	ND (2.91)	---	6010D	---	1	CEV	03/10/25 18:46	5.37 100	DC51007
Silver	ND (0.29)	---	6010D	---	1	CEV	03/10/25 18:46	5.37 100	DC51007

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-1
Date Sampled: 03/05/25 13:20
Percent Solids: 64
Initial Volume: 19.5g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-01
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.040)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
1,2,4-Trichlorobenzene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
1,2-Dichlorobenzene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
1,3-Dichlorobenzene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
1,4-Dichlorobenzene	ND (0.200)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
2,4,5-Trichlorophenol	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
2,4,6-Trichlorophenol	ND (0.200)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
2,4-Dichlorophenol	ND (0.200)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
2,4-Dimethylphenol	ND (0.280)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
2,4-Dinitrophenol	ND (0.800)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
2,4-Dinitrotoluene	ND (0.200)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
2,6-Dinitrotoluene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
2-Chloronaphthalene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
2-Chlorophenol	ND (0.200)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
2-Methylnaphthalene	ND (0.200)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
2-Methylphenol	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
2-Nitrophenol	ND (0.800)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
3,3'-Dichlorobenzidine	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
3+4-Methylphenol	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
4-Bromophenyl-phenylether	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
4-Chloroaniline	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
4-Nitrophenol	ND (1.60)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Acenaphthene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Acenaphthylene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Acetophenone	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Aniline	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Anthracene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-1
Date Sampled: 03/05/25 13:20
Percent Solids: 64
Initial Volume: 19.5g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-01
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Azobenzene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Benzo(a)anthracene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Benzo(a)pyrene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Benzo(b)fluoranthene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Benzo(g,h,i)perylene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Benzo(k)fluoranthene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
bis(2-Chloroethoxy)methane	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
bis(2-Chloroethyl)ether	ND (0.200)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
bis(2-chloroisopropyl)Ether	ND (0.200)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
bis(2-Ethylhexyl)phthalate	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Butylbenzylphthalate	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Chrysene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Dibenzo(a,h)Anthracene	ND (0.200)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Dibenzofuran	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Diethylphthalate	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Dimethylphthalate	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Di-n-butylphthalate	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Di-n-octylphthalate	ND (0.800)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Fluoranthene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Fluorene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Hexachlorobenzene	ND (0.200)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Hexachlorobutadiene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Hexachloroethane	ND (0.200)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Indeno(1,2,3-cd)Pyrene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Isophorone	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Naphthalene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Nitrobenzene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-1
Date Sampled: 03/05/25 13:20
Percent Solids: 64
Initial Volume: 19.5g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-01
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
N-Nitrosodimethylamine	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Pentachlorophenol	ND (0.800)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Phenanthrene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Phenol	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743
Pyrene	ND (0.400)	---	8270E	---	1	TJ	03/10/25 20:24	D5C0182	DC50743

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	69 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	81 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	67 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	67 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	65 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	68 %		30-130
<i>Surrogate: Phenol-d6</i>	65 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	74 %		30-130

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
 Client Project ID: Lily Pond - 401WQ
 Client Sample ID: 2025-SS-1
 Date Sampled: 03/05/25 13:20
 Percent Solids: 64
 Initial Volume: 24.8g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
 ESS Laboratory Sample ID: 25C0241-01
 Sample Matrix: Sediment
 Units: mg/kg dry

Prepared: 3/10/25 16:33

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (15.7)	---	MADEP-EPH	---	1	JDN	03/12/25 0:58	D5C0218	DC51006
C19-C36 Aliphatics1	ND (15.7)	---	MADEP-EPH	---	1	JDN	03/12/25 0:58	D5C0218	DC51006
C11-C22 Unadjusted Aromatics1	ND (15.7)	---	EPH8270	---	1	DMC	03/11/25 14:50	D5C0203	DC51006
C11-C22 Aromatics1,2	ND (15.9)	---	EPH8270	---		TJ	03/12/25 10:51	---	[CALC]
2-Methylnaphthalene	ND (0.013)	---	EPH8270SIM	---	1	TJ	03/12/25 10:51	D5C0229	DC51006
Acenaphthene	ND (0.013)	---	EPH8270SIM	---	1	TJ	03/12/25 10:51	D5C0229	DC51006
Naphthalene	ND (0.013)	---	EPH8270SIM	---	1	TJ	03/12/25 10:51	D5C0229	DC51006
Phenanthrene	0.070 (0.013)	---	EPH8270SIM	---	1	TJ	03/12/25 10:51	D5C0229	DC51006
Acenaphthylene	ND (0.013)	---	EPH8270SIM	---	1	TJ	03/12/25 10:51	D5C0229	DC51006
Anthracene	ND (0.013)	---	EPH8270SIM	---	1	TJ	03/12/25 10:51	D5C0229	DC51006
Benzo(a)anthracene	0.086 (0.013)	---	EPH8270SIM	---	1	TJ	03/12/25 10:51	D5C0229	DC51006
Benzo(a)pyrene	0.100 (0.013)	---	EPH8270SIM	---	1	TJ	03/12/25 10:51	D5C0229	DC51006
Benzo(b)fluoranthene	0.073 (0.013)	---	EPH8270SIM	---	1	TJ	03/12/25 10:51	D5C0229	DC51006
Benzo(g,h,i)perylene	0.063 (0.013)	---	EPH8270SIM	---	1	TJ	03/12/25 10:51	D5C0229	DC51006
Benzo(k)fluoranthene	0.086 (0.013)	---	EPH8270SIM	---	1	TJ	03/12/25 10:51	D5C0229	DC51006
Chrysene	0.106 (0.013)	---	EPH8270SIM	---	1	TJ	03/12/25 10:51	D5C0229	DC51006
Dibenzo(a,h)Anthracene	0.028 (0.013)	---	EPH8270SIM	---	1	TJ	03/12/25 10:51	D5C0229	DC51006
Fluoranthene	0.183 (0.013)	---	EPH8270SIM	---	1	TJ	03/12/25 10:51	D5C0229	DC51006
Fluorene	ND (0.013)	---	EPH8270SIM	---	1	TJ	03/12/25 10:51	D5C0229	DC51006
Indeno(1,2,3-cd)Pyrene	0.055 (0.013)	---	EPH8270SIM	---	1	TJ	03/12/25 10:51	D5C0229	DC51006
Pyrene	0.163 (0.013)	---	EPH8270SIM	---	1	TJ	03/12/25 10:51	D5C0229	DC51006

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	75 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	104 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	102 %		40-140
<i>Surrogate: O-Terphenyl</i>	83 %		40-140

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-1
Date Sampled: 03/05/25 13:20
Percent Solids: 64
Initial Volume: 20.3g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-01
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: DMC
Prepared: 3/10/25 10:18

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD [2C]	ND (0.0038)	---	8081B	---	1	03/11/25 17:38	D5C0200	DC51003
4,4'-DDE	ND (0.0038)	---	8081B	---	1	03/11/25 17:38	D5C0200	DC51003
4,4'-DDT [2C]	ND (0.0038)	---	8081B	---	1	03/11/25 17:38	D5C0200	DC51003
Aldrin	ND (0.0038)	---	8081B	---	1	03/11/25 17:38	D5C0200	DC51003
alpha-BHC	ND (0.0038)	---	8081B	---	1	03/11/25 17:38	D5C0200	DC51003
alpha-Chlordane	ND (0.0038)	---	8081B	---	1	03/11/25 17:38	D5C0200	DC51003
beta-BHC	ND (0.0038)	---	8081B	---	1	03/11/25 17:38	D5C0200	DC51003
Chlordane (Total)	ND (0.0308)	---	8081B	---	1	03/11/25 17:38	D5C0200	DC51003
delta-BHC	ND (0.0038)	---	8081B	---	1	03/11/25 17:38	D5C0200	DC51003
Dieldrin	ND (0.0038)	---	8081B	---	1	03/11/25 17:38	D5C0200	DC51003
Endosulfan I	ND (0.0038)	---	8081B	---	1	03/11/25 17:38	D5C0200	DC51003
Endosulfan II	ND (0.0038)	---	8081B	---	1	03/11/25 17:38	D5C0200	DC51003
Endosulfan Sulfate	ND (0.0038)	---	8081B	---	1	03/11/25 17:38	D5C0200	DC51003
Endrin	ND (0.0038)	---	8081B	---	1	03/11/25 17:38	D5C0200	DC51003
Endrin Ketone	ND (0.0038)	---	8081B	---	1	03/11/25 17:38	D5C0200	DC51003
gamma-BHC (Lindane)	ND (0.0023)	---	8081B	---	1	03/11/25 17:38	D5C0200	DC51003
gamma-Chlordane	ND (0.0038)	---	8081B	---	1	03/11/25 17:38	D5C0200	DC51003
Heptachlor	ND (0.0038)	---	8081B	---	1	03/11/25 17:38	D5C0200	DC51003
Heptachlor Epoxide	ND (0.0038)	---	8081B	---	1	03/11/25 17:38	D5C0200	DC51003
Hexachlorobenzene	ND (0.0038)	---	8081B	---	1	03/11/25 17:38	D5C0200	DC51003
Methoxychlor	ND (0.0038)	---	8081B	---	1	03/11/25 17:38	D5C0200	DC51003

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	69 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	72 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	60 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	59 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-1
Date Sampled: 03/05/25 13:20
Percent Solids: 64
Initial Volume: 10.3g
Final Volume: 4ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-01
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: DMC
Prepared: 3/11/25 18:00

8151A Chlorinated Herbicides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2,4,5-T	ND (0.014)	---	8151A	---	1	03/14/25 5:58	D5C0281	DC51147
2,4,5-TP (Silvex)	ND (0.014)	---	8151A	---	1	03/14/25 5:58	D5C0281	DC51147
2,4-D	ND (0.071)	---	8151A	---	1	03/14/25 5:58	D5C0281	DC51147
2,4-DB	ND (0.072)	---	8151A	---	1	03/14/25 5:58	D5C0281	DC51147
Dalapon	ND (0.069)	---	8151A	---	1	03/14/25 5:58	D5C0281	DC51147
Dicamba	ND (0.014)	---	8151A	---	1	03/14/25 5:58	D5C0281	DC51147
Dichlorprop	ND (0.071)	---	8151A	---	1	03/14/25 5:58	D5C0281	DC51147
MCPA	ND (3.52)	---	8151A	---	1	03/14/25 5:58	D5C0281	DC51147
MCPP	ND (3.56)	---	8151A	---	1	03/14/25 5:58	D5C0281	DC51147

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: DCAA</i>	92 %		30-150
<i>Surrogate: DCAA [2C]</i>	89 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-1
Date Sampled: 03/05/25 13:20
Percent Solids: 64
Initial Volume: 19.2g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-01
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: JDN
Prepared: 3/7/25 22:15

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons (C9-C36)	ND (16.3)	---	8100M	---	1	03/10/25 20:03	---	DC50744
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		72 %		40-140				

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-1
Date Sampled: 03/05/25 13:20
Percent Solids: 64

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-01
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 39 (5)	---	9050A	---	1	JLK	03/07/25 21:26	umhos/cm	DC50736
Corrosivity (pH)	5.96 (N/A)	---	9045	---	1	CCP	03/07/25 20:17	S.U.	DC50725
Corrosivity (pH) Sample Temp	19.6	---	2550B	---	1	CCP	03/07/25 20:17	°C	DC50725
Flashpoint	> 200 (N/A)	---	1010A	---	1	CCP	03/10/25 15:30	°F	DC51036
Percent Moisture	36 (1)	---	2540G	---	1	CCP	03/07/25 20:00	%	DC50727
Reactive Cyanide	ND (2.0)	---	7.3.3.2	---	1	EAM	03/10/25 16:29	mg/kg	DC51035
Reactive Sulfide	ND (2.0)	---	7.3.4.1	---	1	EAM	03/10/25 16:29	mg/kg	DC51035
Total Organic Carbon (Average)	50600 (500)	---	LK	---	1	CCP	03/20/25 12:02	mg/kg	[CALC]

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-1
Date Sampled: 03/05/25 13:20

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-01
Sample Matrix: Sediment

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Coal/Wood Ash Determination	See Attached (N/A)	---		---				%	
Grain Size	See Attached (N/A)	---		---				%	
Water Content	See Attached (N/A)	---		---				%	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-1
Date Sampled: 03/05/25 13:20
Percent Solids: 64
Initial Volume: 29.9g
Final Volume: 2ml
Extraction Method: 3540C

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-01
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: JLG
Prepared: 3/11/25 10:28

8082 Polychlorinated Biphenyls (PCB) / Congeners

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
BZ#8	ND (0.00042)	---	8082A Cong	---	1	03/12/25 16:44	D5C0244	DC51104
BZ#18	ND (0.00042)	---	8082A Cong	---	1	03/12/25 16:44	D5C0244	DC51104
BZ#28	ND (0.00042)	---	8082A Cong	---	1	03/12/25 16:44	D5C0244	DC51104
BZ#44	ND (0.00042)	---	8082A Cong	---	1	03/12/25 16:44	D5C0244	DC51104
BZ#52	ND (0.00042)	---	8082A Cong	---	1	03/12/25 16:44	D5C0244	DC51104
BZ#66	ND (0.00042)	---	8082A Cong	---	1	03/12/25 16:44	D5C0244	DC51104
BZ#101	ND (0.00042)	---	8082A Cong	---	1	03/12/25 16:44	D5C0244	DC51104
BZ#105	ND (0.00042)	---	8082A Cong	---	1	03/12/25 16:44	D5C0244	DC51104
BZ#118	ND (0.00042)	---	8082A Cong	---	1	03/12/25 16:44	D5C0244	DC51104
BZ#128	ND (0.00042)	---	8082A Cong	---	1	03/12/25 16:44	D5C0244	DC51104
BZ#138	ND (0.00042)	---	8082A Cong	---	1	03/12/25 16:44	D5C0244	DC51104
BZ#153 [2C]	ND (0.00042)	---	8082A Cong	---	1	03/12/25 16:44	D5C0244	DC51104
BZ#170	ND (0.00042)	---	8082A Cong	---	1	03/12/25 16:44	D5C0244	DC51104
BZ#180	ND (0.00042)	---	8082A Cong	---	1	03/12/25 16:44	D5C0244	DC51104
BZ#187	ND (0.00042)	---	8082A Cong	---	1	03/12/25 16:44	D5C0244	DC51104
BZ#195	ND (0.00042)	---	8082A Cong	---	1	03/12/25 16:44	D5C0244	DC51104
BZ#206	ND (0.00042)	---	8082A Cong	---	1	03/12/25 16:44	D5C0244	DC51104
BZ#209	ND (0.00042)	---	8082A Cong	---	1	03/12/25 16:44	D5C0244	DC51104

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	80 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	77 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
 Client Project ID: Lily Pond - 401WQ
 Client Sample ID: 2025-SS-1
 Date Sampled: 03/05/25 13:20
 Percent Solids: 64

ESS Laboratory Work Order: 25C0241
 ESS Laboratory Sample ID: 25C0241-01RE1
 Sample Matrix: Sediment
 Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Lead	84.7 (3.08)	---	6010D	---	1	CEV	04/10/25 15:12	5.06 100	DD51014

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-1
Date Sampled: 03/05/25 13:20
Percent Solids: 64

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-01RE2
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Lead	85.1 (2.97)	---	6010D	---	1	CEV	04/10/25 15:14	5.25 100	DD51014

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-2
Date Sampled: 03/05/25 11:15
Percent Solids: 28

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-02
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Arsenic	8.23 (3.37)	---	6010D	---	1	CEV	03/10/25 18:48	5.25 100	DC51007
Barium	238 (1.35)	---	6010D	---	1	CEV	03/10/25 18:48	5.25 100	DC51007
Cadmium	1.98 (0.67)	---	6010D	---	1	CEV	03/10/25 18:48	5.25 100	DC51007
Chromium	32.5 (1.35)	---	6010D	---	1	CEV	03/10/25 18:48	5.25 100	DC51007
Lead	339 (6.75)	---	6010D	---	1	CEV	03/10/25 18:48	5.25 100	DC51007
Mercury	0.358 (0.035)	---	7471B	---	1	BJV	03/11/25 12:45	2.01 40	DC51008
Selenium	ND (6.75)	---	6010D	---	1	CEV	03/10/25 18:48	5.25 100	DC51007
Silver	ND (0.67)	---	6010D	---	1	CEV	03/10/25 18:48	5.25 100	DC51007

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-2
Date Sampled: 03/05/25 11:15
Percent Solids: 28
Initial Volume: 19.2g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-02
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.092)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
1,2,4-Trichlorobenzene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
1,2-Dichlorobenzene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
1,3-Dichlorobenzene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
1,4-Dichlorobenzene	ND (0.461)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
2,4,5-Trichlorophenol	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
2,4,6-Trichlorophenol	ND (0.461)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
2,4-Dichlorophenol	ND (0.461)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
2,4-Dimethylphenol	ND (0.646)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
2,4-Dinitrophenol	ND (1.85)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
2,4-Dinitrotoluene	ND (0.461)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
2,6-Dinitrotoluene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
2-Chloronaphthalene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
2-Chlorophenol	ND (0.461)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
2-Methylnaphthalene	ND (0.461)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
2-Methylphenol	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
2-Nitrophenol	ND (1.85)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
3,3'-Dichlorobenzidine	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
3+4-Methylphenol	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
4-Bromophenyl-phenylether	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
4-Chloroaniline	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
4-Nitrophenol	ND (3.69)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Acenaphthene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Acenaphthylene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Acetophenone	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Aniline	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Anthracene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-2
Date Sampled: 03/05/25 11:15
Percent Solids: 28
Initial Volume: 19.2g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-02
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Azobenzene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Benzo(a)anthracene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Benzo(a)pyrene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Benzo(b)fluoranthene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Benzo(g,h,i)perylene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Benzo(k)fluoranthene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
bis(2-Chloroethoxy)methane	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
bis(2-Chloroethyl)ether	ND (0.461)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
bis(2-chloroisopropyl)Ether	ND (0.461)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
bis(2-Ethylhexyl)phthalate	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Butylbenzylphthalate	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Chrysene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Dibenzo(a,h)Anthracene	ND (0.461)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Dibenzofuran	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Diethylphthalate	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Dimethylphthalate	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Di-n-butylphthalate	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Di-n-octylphthalate	ND (1.85)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Fluoranthene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Fluorene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Hexachlorobenzene	ND (0.461)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Hexachlorobutadiene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Hexachloroethane	ND (0.461)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Indeno(1,2,3-cd)Pyrene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Isophorone	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Naphthalene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Nitrobenzene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-2
Date Sampled: 03/05/25 11:15
Percent Solids: 28
Initial Volume: 19.2g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-02
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
N-Nitrosodimethylamine	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Pentachlorophenol	ND (1.85)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Phenanthrene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Phenol	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743
Pyrene	ND (0.923)	---	8270E	---	1	TJ	03/10/25 20:54	D5C0182	DC50743

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	75 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	84 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	70 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	71 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	68 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	61 %		30-130
<i>Surrogate: Phenol-d6</i>	69 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	77 %		30-130

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
 Client Project ID: Lily Pond - 401WQ
 Client Sample ID: 2025-SS-2
 Date Sampled: 03/05/25 11:15
 Percent Solids: 28
 Initial Volume: 25.2g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
 ESS Laboratory Sample ID: 25C0241-02
 Sample Matrix: Sediment
 Units: mg/kg dry

Prepared: 3/10/25 16:33

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (35.1)	---	MADEP-EPH	---	1	JDN	03/12/25 1:32	D5C0218	DC51006
C19-C36 Aliphatics1	ND (35.1)	---	MADEP-EPH	---	1	JDN	03/12/25 1:32	D5C0218	DC51006
C11-C22 Unadjusted Aromatics1	ND (35.1)	---	EPH8270	---	1	DMC	03/11/25 15:27	D5C0203	DC51006
C11-C22 Aromatics1,2	ND (35.6)	---	EPH8270	---		TJ	03/12/25 11:20	---	[CALC]
2-Methylnaphthalene	ND (0.028)	---	EPH8270SIM	---	1	TJ	03/12/25 11:20	D5C0229	DC51006
Acenaphthene	ND (0.028)	---	EPH8270SIM	---	1	TJ	03/12/25 11:20	D5C0229	DC51006
Naphthalene	ND (0.028)	---	EPH8270SIM	---	1	TJ	03/12/25 11:20	D5C0229	DC51006
Phenanthrene	0.059 (0.028)	---	EPH8270SIM	---	1	TJ	03/12/25 11:20	D5C0229	DC51006
Acenaphthylene	ND (0.028)	---	EPH8270SIM	---	1	TJ	03/12/25 11:20	D5C0229	DC51006
Anthracene	ND (0.028)	---	EPH8270SIM	---	1	TJ	03/12/25 11:20	D5C0229	DC51006
Benzo(a)anthracene	0.050 (0.028)	---	EPH8270SIM	---	1	TJ	03/12/25 11:20	D5C0229	DC51006
Benzo(a)pyrene	0.062 (0.028)	---	EPH8270SIM	---	1	TJ	03/12/25 11:20	D5C0229	DC51006
Benzo(b)fluoranthene	0.054 (0.028)	---	EPH8270SIM	---	1	TJ	03/12/25 11:20	D5C0229	DC51006
Benzo(g,h,i)perylene	0.040 (0.028)	---	EPH8270SIM	---	1	TJ	03/12/25 11:20	D5C0229	DC51006
Benzo(k)fluoranthene	0.046 (0.028)	---	EPH8270SIM	---	1	TJ	03/12/25 11:20	D5C0229	DC51006
Chrysene	0.062 (0.028)	---	EPH8270SIM	---	1	TJ	03/12/25 11:20	D5C0229	DC51006
Dibenzo(a,h)Anthracene	ND (0.028)	---	EPH8270SIM	---	1	TJ	03/12/25 11:20	D5C0229	DC51006
Fluoranthene	0.109 (0.028)	---	EPH8270SIM	---	1	TJ	03/12/25 11:20	D5C0229	DC51006
Fluorene	ND (0.028)	---	EPH8270SIM	---	1	TJ	03/12/25 11:20	D5C0229	DC51006
Indeno(1,2,3-cd)Pyrene	0.040 (0.028)	---	EPH8270SIM	---	1	TJ	03/12/25 11:20	D5C0229	DC51006
Pyrene	0.093 (0.028)	---	EPH8270SIM	---	1	TJ	03/12/25 11:20	D5C0229	DC51006

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	66 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	101 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	98 %		40-140
<i>Surrogate: O-Terphenyl</i>	72 %		40-140

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-2
Date Sampled: 03/05/25 11:15
Percent Solids: 28
Initial Volume: 20g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-02
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: DMC
Prepared: 3/10/25 10:18

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	0.0340 (0.0089)	---	8081B	---	1	03/11/25 18:06	D5C0200	DC51003
4,4'-DDE [2C]	P, LC 0.0229 (0.0089)	---	8081B	---	1	03/11/25 18:06	D5C0200	DC51003
4,4'-DDT	ND (0.0089)	---	8081B	---	1	03/11/25 18:06	D5C0200	DC51003
Aldrin	ND (0.0089)	---	8081B	---	1	03/11/25 18:06	D5C0200	DC51003
alpha-BHC	ND (0.0089)	---	8081B	---	1	03/11/25 18:06	D5C0200	DC51003
alpha-Chlordane	ND (0.0089)	---	8081B	---	1	03/11/25 18:06	D5C0200	DC51003
beta-BHC	ND (0.0089)	---	8081B	---	1	03/11/25 18:06	D5C0200	DC51003
Chlordane (Total)	ND (0.0709)	---	8081B	---	1	03/11/25 18:06	D5C0200	DC51003
delta-BHC	ND (0.0089)	---	8081B	---	1	03/11/25 18:06	D5C0200	DC51003
Dieldrin	ND (0.0089)	---	8081B	---	1	03/11/25 18:06	D5C0200	DC51003
Endosulfan I [2C]	ND (0.0089)	---	8081B	---	1	03/11/25 18:06	D5C0200	DC51003
Endosulfan II	ND (0.0089)	---	8081B	---	1	03/11/25 18:06	D5C0200	DC51003
Endosulfan Sulfate	ND (0.0089)	---	8081B	---	1	03/11/25 18:06	D5C0200	DC51003
Endrin	ND (0.0089)	---	8081B	---	1	03/11/25 18:06	D5C0200	DC51003
Endrin Ketone	ND (0.0089)	---	8081B	---	1	03/11/25 18:06	D5C0200	DC51003
gamma-BHC (Lindane)	ND (0.0053)	---	8081B	---	1	03/11/25 18:06	D5C0200	DC51003
gamma-Chlordane	ND (0.0089)	---	8081B	---	1	03/11/25 18:06	D5C0200	DC51003
Heptachlor	ND (0.0089)	---	8081B	---	1	03/11/25 18:06	D5C0200	DC51003
Heptachlor Epoxide	ND (0.0089)	---	8081B	---	1	03/11/25 18:06	D5C0200	DC51003
Hexachlorobenzene	ND (0.0089)	---	8081B	---	1	03/11/25 18:06	D5C0200	DC51003
Methoxychlor	ND (0.0089)	---	8081B	---	1	03/11/25 18:06	D5C0200	DC51003

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: Decachlorobiphenyl	55 %		30-150
Surrogate: Decachlorobiphenyl [2C]	55 %		30-150
Surrogate: Tetrachloro-m-xylene	51 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	42 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-2
Date Sampled: 03/05/25 11:15
Percent Solids: 28
Initial Volume: 10.2g
Final Volume: 4ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-02
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: DMC
Prepared: 3/11/25 18:00

8151A Chlorinated Herbicides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2,4,5-T	ND (0.033)	---	8151A	---	1	03/14/25 6:25	D5C0281	DC51147
2,4,5-TP (Silvex)	ND (0.033)	---	8151A	---	1	03/14/25 6:25	D5C0281	DC51147
2,4-D	ND (0.163)	---	8151A	---	1	03/14/25 6:25	D5C0281	DC51147
2,4-DB	ND (0.165)	---	8151A	---	1	03/14/25 6:25	D5C0281	DC51147
Dalapon	ND (0.158)	---	8151A	---	1	03/14/25 6:25	D5C0281	DC51147
Dicamba	ND (0.033)	---	8151A	---	1	03/14/25 6:25	D5C0281	DC51147
Dichlorprop	ND (0.163)	---	8151A	---	1	03/14/25 6:25	D5C0281	DC51147
MCPA	ND (8.08)	---	8151A	---	1	03/14/25 6:25	D5C0281	DC51147
MCPP	ND (8.16)	---	8151A	---	1	03/14/25 6:25	D5C0281	DC51147

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: DCAA</i>	<i>79 %</i>		<i>30-150</i>
<i>Surrogate: DCAA [2C]</i>	<i>70 %</i>		<i>30-150</i>

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-2
Date Sampled: 03/05/25 11:15
Percent Solids: 28
Initial Volume: 19.5g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-02
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: JDN
Prepared: 3/7/25 22:15

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons (C9-C36)	144 (36.3)	---	8100M	---	1	03/10/25 20:34	---	DC50744
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		74 %		40-140				

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-2
Date Sampled: 03/05/25 11:15
Percent Solids: 28

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-02
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 113 (5)	---	9050A	---	1	JLK	03/07/25 21:26	umhos/cm	DC50736
Corrosivity (pH)	5.92 (N/A)	---	9045	---	1	CCP	03/07/25 20:17	S.U.	DC50725
Corrosivity (pH) Sample Temp	19.0	---	2550B	---	1	CCP	03/07/25 20:17	°C	DC50725
Flashpoint	> 200 (N/A)	---	1010A	---	1	CCP	03/10/25 15:30	°F	DC51036
Percent Moisture	72 (1)	---	2540G	---	1	CCP	03/07/25 20:00	%	DC50727
Reactive Cyanide	ND (2.0)	---	7.3.3.2	---	1	EAM	03/10/25 16:29	mg/kg	DC51035
Reactive Sulfide	ND (2.0)	---	7.3.4.1	---	1	EAM	03/10/25 16:29	mg/kg	DC51035
Total Organic Carbon (Average)	124000 (500)	---	LK	---	1	CCP	03/20/25 13:08	mg/kg	[CALC]

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
 Client Project ID: Lily Pond - 401WQ
 Client Sample ID: 2025-SS-2
 Date Sampled: 03/05/25 11:15

ESS Laboratory Work Order: 25C0241
 ESS Laboratory Sample ID: 25C0241-02
 Sample Matrix: Sediment

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)	---		---				%	
Water Content	See Attached (N/A)	---		---				%	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-2
Date Sampled: 03/05/25 11:15
Percent Solids: 28
Initial Volume: 30.3g
Final Volume: 2ml
Extraction Method: 3540C

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-02
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: JLG
Prepared: 3/11/25 10:28

8082 Polychlorinated Biphenyls (PCB) / Congeners

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
BZ#8	ND (0.00095)	---	8082A Cong	---	1	03/12/25 17:14	D5C0244	DC51104
BZ#18	ND (0.00095)	---	8082A Cong	---	1	03/12/25 17:14	D5C0244	DC51104
BZ#28	0.00137 (0.00095)	---	8082A Cong	---	1	03/12/25 17:14	D5C0244	DC51104
BZ#44	0.00313 (0.00095)	---	8082A Cong	---	1	03/12/25 17:14	D5C0244	DC51104
BZ#52	0.00525 (0.00095)	---	8082A Cong	---	1	03/12/25 17:14	D5C0244	DC51104
BZ#66	ND (0.00095)	---	8082A Cong	---	1	03/12/25 17:14	D5C0244	DC51104
BZ#101	0.0218 (0.00095)	---	8082A Cong	---	1	03/12/25 17:14	D5C0244	DC51104
BZ#105	P, LC 0.00343 (0.00095)	---	8082A Cong	---	1	03/12/25 17:14	D5C0244	DC51104
BZ#118	0.0153 (0.00095)	---	8082A Cong	---	1	03/12/25 17:14	D5C0244	DC51104
BZ#128 [2C]	0.00513 (0.00095)	---	8082A Cong	---	1	03/12/25 17:14	D5C0244	DC51104
BZ#138 [2C]	0.110 (0.00947)	---	8082A Cong	---	10	03/13/25 19:08	D5C0244	DC51104
BZ#153	0.154 (0.00947)	---	8082A Cong	---	10	03/13/25 19:08	D5C0244	DC51104
BZ#170	P, LC 0.0903 (0.00947)	---	8082A Cong	---	10	03/13/25 19:08	D5C0244	DC51104
BZ#180	0.259 (0.0189)	---	8082A Cong	---	20	03/13/25 20:39	D5C0244	DC51104
BZ#187 [2C]	0.147 (0.00947)	---	8082A Cong	---	10	03/13/25 19:08	D5C0244	DC51104
BZ#195	0.0403 (0.00947)	---	8082A Cong	---	10	03/13/25 19:08	D5C0244	DC51104
BZ#206 [2C]	0.0388 (0.00947)	---	8082A Cong	---	10	03/13/25 19:08	D5C0244	DC51104
BZ#209	P, LC 0.00216 (0.00095)	---	8082A Cong	---	1	03/12/25 17:14	D5C0244	DC51104

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: Tetrachloro-m-xylene	85 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	82 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-3
Date Sampled: 03/05/25 11:00
Percent Solids: 52

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-03
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Arsenic	EL ND (1.81)	---	6010D	---	1	CEV	03/10/25 18:51	5.32 100	DC51007
Barium	20.8 (0.73)	---	6010D	---	1	CEV	03/10/25 18:51	5.32 100	DC51007
Cadmium	ND (0.36)	---	6010D	---	1	CEV	03/10/25 18:51	5.32 100	DC51007
Chromium	6.22 (0.73)	---	6010D	---	1	CEV	03/10/25 18:51	5.32 100	DC51007
Lead	42.5 (3.63)	---	6010D	---	1	CEV	03/10/25 18:51	5.32 100	DC51007
Mercury	0.053 (0.018)	---	7471B	---	1	BJV	03/11/25 12:48	2.12 40	DC51008
Selenium	ND (3.63)	---	6010D	---	1	CEV	03/10/25 18:51	5.32 100	DC51007
Silver	ND (0.36)	---	6010D	---	1	CEV	03/10/25 18:51	5.32 100	DC51007

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-3
Date Sampled: 03/05/25 11:00
Percent Solids: 52
Initial Volume: 19.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-03
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.050)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
1,2,4-Trichlorobenzene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
1,2-Dichlorobenzene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
1,3-Dichlorobenzene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
1,4-Dichlorobenzene	ND (0.252)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
2,4,5-Trichlorophenol	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
2,4,6-Trichlorophenol	ND (0.252)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
2,4-Dichlorophenol	ND (0.252)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
2,4-Dimethylphenol	ND (0.353)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
2,4-Dinitrophenol	ND (1.01)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
2,4-Dinitrotoluene	ND (0.252)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
2,6-Dinitrotoluene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
2-Chloronaphthalene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
2-Chlorophenol	ND (0.252)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
2-Methylnaphthalene	ND (0.252)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
2-Methylphenol	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
2-Nitrophenol	ND (1.01)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
3,3'-Dichlorobenzidine	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
3+4-Methylphenol	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
4-Bromophenyl-phenylether	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
4-Chloroaniline	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
4-Nitrophenol	ND (2.02)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Acenaphthene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Acenaphthylene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Acetophenone	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Aniline	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Anthracene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-3
Date Sampled: 03/05/25 11:00
Percent Solids: 52
Initial Volume: 19.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-03
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Azobenzene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Benzo(a)anthracene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Benzo(a)pyrene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Benzo(b)fluoranthene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Benzo(g,h,i)perylene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Benzo(k)fluoranthene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
bis(2-Chloroethoxy)methane	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
bis(2-Chloroethyl)ether	ND (0.252)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
bis(2-chloroisopropyl)Ether	ND (0.252)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
bis(2-Ethylhexyl)phthalate	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Butylbenzylphthalate	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Chrysene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Dibenzo(a,h)Anthracene	ND (0.252)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Dibenzofuran	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Diethylphthalate	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Dimethylphthalate	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Di-n-butylphthalate	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Di-n-octylphthalate	ND (1.01)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Fluoranthene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Fluorene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Hexachlorobenzene	ND (0.252)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Hexachlorobutadiene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Hexachloroethane	ND (0.252)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Indeno(1,2,3-cd)Pyrene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Isophorone	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Naphthalene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Nitrobenzene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-3
Date Sampled: 03/05/25 11:00
Percent Solids: 52
Initial Volume: 19.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-03
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
N-Nitrosodimethylamine	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Pentachlorophenol	ND (1.01)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Phenanthrene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Phenol	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743
Pyrene	ND (0.505)	---	8270E	---	1	TJ	03/10/25 21:25	D5C0182	DC50743

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>95 %</i>		<i>30-130</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>111 %</i>		<i>30-130</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>91 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>94 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorophenol</i>	<i>88 %</i>		<i>30-130</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>81 %</i>		<i>30-130</i>
<i>Surrogate: Phenol-d6</i>	<i>88 %</i>		<i>30-130</i>
<i>Surrogate: p-Terphenyl-d14</i>	<i>100 %</i>		<i>30-130</i>

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
 Client Project ID: Lily Pond - 401WQ
 Client Sample ID: 2025-SS-3
 Date Sampled: 03/05/25 11:00
 Percent Solids: 52
 Initial Volume: 24.9g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
 ESS Laboratory Sample ID: 25C0241-03
 Sample Matrix: Sediment
 Units: mg/kg dry

Prepared: 3/10/25 16:33

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (19.4)	---	MADEP-EPH	---	1	JDN	03/12/25 2:07	D5C0218	DC51006
C19-C36 Aliphatics1	ND (19.4)	---	MADEP-EPH	---	1	JDN	03/12/25 2:07	D5C0218	DC51006
C11-C22 Unadjusted Aromatics1	ND (19.4)	---	EPH8270	---	1	DMC	03/11/25 16:05	D5C0203	DC51006
C11-C22 Aromatics1,2	ND (19.6)	---	EPH8270	---		TJ	03/12/25 11:49	---	[CALC]
2-Methylnaphthalene	ND (0.015)	---	EPH8270SIM	---	1	TJ	03/12/25 11:49	D5C0229	DC51006
Acenaphthene	ND (0.015)	---	EPH8270SIM	---	1	TJ	03/12/25 11:49	D5C0229	DC51006
Naphthalene	0.020 (0.015)	---	EPH8270SIM	---	1	TJ	03/12/25 11:49	D5C0229	DC51006
Phenanthrene	0.037 (0.015)	---	EPH8270SIM	---	1	TJ	03/12/25 11:49	D5C0229	DC51006
Acenaphthylene	ND (0.015)	---	EPH8270SIM	---	1	TJ	03/12/25 11:49	D5C0229	DC51006
Anthracene	ND (0.015)	---	EPH8270SIM	---	1	TJ	03/12/25 11:49	D5C0229	DC51006
Benzo(a)anthracene	0.032 (0.015)	---	EPH8270SIM	---	1	TJ	03/12/25 11:49	D5C0229	DC51006
Benzo(a)pyrene	0.041 (0.015)	---	EPH8270SIM	---	1	TJ	03/12/25 11:49	D5C0229	DC51006
Benzo(b)fluoranthene	0.036 (0.015)	---	EPH8270SIM	---	1	TJ	03/12/25 11:49	D5C0229	DC51006
Benzo(g,h,i)perylene	0.028 (0.015)	---	EPH8270SIM	---	1	TJ	03/12/25 11:49	D5C0229	DC51006
Benzo(k)fluoranthene	0.031 (0.015)	---	EPH8270SIM	---	1	TJ	03/12/25 11:49	D5C0229	DC51006
Chrysene	0.040 (0.015)	---	EPH8270SIM	---	1	TJ	03/12/25 11:49	D5C0229	DC51006
Dibenzo(a,h)Anthracene	0.017 (0.015)	---	EPH8270SIM	---	1	TJ	03/12/25 11:49	D5C0229	DC51006
Fluoranthene	0.066 (0.015)	---	EPH8270SIM	---	1	TJ	03/12/25 11:49	D5C0229	DC51006
Fluorene	ND (0.015)	---	EPH8270SIM	---	1	TJ	03/12/25 11:49	D5C0229	DC51006
Indeno(1,2,3-cd)Pyrene	0.027 (0.015)	---	EPH8270SIM	---	1	TJ	03/12/25 11:49	D5C0229	DC51006
Pyrene	0.059 (0.015)	---	EPH8270SIM	---	1	TJ	03/12/25 11:49	D5C0229	DC51006

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	65 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	100 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	100 %		40-140
<i>Surrogate: O-Terphenyl</i>	81 %		40-140

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-3
Date Sampled: 03/05/25 11:00
Percent Solids: 52
Initial Volume: 20g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-03
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: DMC
Prepared: 3/10/25 10:18

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	0.0086 (0.0048)	---	8081B	---	1	03/11/25 18:34	D5C0200	DC51003
4,4'-DDE [2C]	0.0217 (0.0048)	---	8081B	---	1	03/11/25 18:34	D5C0200	DC51003
4,4'-DDT [2C]	ND (0.0048)	---	8081B	---	1	03/11/25 18:34	D5C0200	DC51003
Aldrin	ND (0.0048)	---	8081B	---	1	03/11/25 18:34	D5C0200	DC51003
alpha-BHC	ND (0.0048)	---	8081B	---	1	03/11/25 18:34	D5C0200	DC51003
alpha-Chlordane	ND (0.0048)	---	8081B	---	1	03/11/25 18:34	D5C0200	DC51003
beta-BHC	ND (0.0048)	---	8081B	---	1	03/11/25 18:34	D5C0200	DC51003
Chlordane (Total)	ND (0.0386)	---	8081B	---	1	03/11/25 18:34	D5C0200	DC51003
delta-BHC	ND (0.0048)	---	8081B	---	1	03/11/25 18:34	D5C0200	DC51003
Dieldrin	ND (0.0048)	---	8081B	---	1	03/11/25 18:34	D5C0200	DC51003
Endosulfan I	ND (0.0048)	---	8081B	---	1	03/11/25 18:34	D5C0200	DC51003
Endosulfan II	ND (0.0048)	---	8081B	---	1	03/11/25 18:34	D5C0200	DC51003
Endosulfan Sulfate	ND (0.0048)	---	8081B	---	1	03/11/25 18:34	D5C0200	DC51003
Endrin	ND (0.0048)	---	8081B	---	1	03/11/25 18:34	D5C0200	DC51003
Endrin Ketone	ND (0.0048)	---	8081B	---	1	03/11/25 18:34	D5C0200	DC51003
gamma-BHC (Lindane)	ND (0.0029)	---	8081B	---	1	03/11/25 18:34	D5C0200	DC51003
gamma-Chlordane	ND (0.0048)	---	8081B	---	1	03/11/25 18:34	D5C0200	DC51003
Heptachlor	ND (0.0048)	---	8081B	---	1	03/11/25 18:34	D5C0200	DC51003
Heptachlor Epoxide	ND (0.0048)	---	8081B	---	1	03/11/25 18:34	D5C0200	DC51003
Hexachlorobenzene	ND (0.0048)	---	8081B	---	1	03/11/25 18:34	D5C0200	DC51003
Methoxychlor	ND (0.0048)	---	8081B	---	1	03/11/25 18:34	D5C0200	DC51003

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	59 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	114 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	58 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	54 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-3
Date Sampled: 03/05/25 11:00
Percent Solids: 52
Initial Volume: 10.3g
Final Volume: 4ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-03
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: DMC
Prepared: 3/11/25 18:00

8151A Chlorinated Herbicides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2,4,5-T	ND (0.018)	---	8151A	---	1	03/14/25 6:51	D5C0281	DC51147
2,4,5-TP (Silvex)	ND (0.018)	---	8151A	---	1	03/14/25 6:51	D5C0281	DC51147
2,4-D	ND (0.088)	---	8151A	---	1	03/14/25 6:51	D5C0281	DC51147
2,4-DB	ND (0.089)	---	8151A	---	1	03/14/25 6:51	D5C0281	DC51147
Dalapon	ND (0.085)	---	8151A	---	1	03/14/25 6:51	D5C0281	DC51147
Dicamba	ND (0.018)	---	8151A	---	1	03/14/25 6:51	D5C0281	DC51147
Dichlorprop	ND (0.088)	---	8151A	---	1	03/14/25 6:51	D5C0281	DC51147
MCPA	ND (4.35)	---	8151A	---	1	03/14/25 6:51	D5C0281	DC51147
MCPP	ND (4.40)	---	8151A	---	1	03/14/25 6:51	D5C0281	DC51147

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: DCAA</i>	<i>74 %</i>		<i>30-150</i>
<i>Surrogate: DCAA [2C]</i>	<i>69 %</i>		<i>30-150</i>

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-3
Date Sampled: 03/05/25 11:00
Percent Solids: 52
Initial Volume: 19.9g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-03
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: JDN
Prepared: 3/7/25 22:15

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons (C9-C36)	62.6 (19.4)	---	8100M	---	1	03/10/25 20:03	---	DC50744
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
Surrogate: O-Terphenyl		59 %		40-140				

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-3
Date Sampled: 03/05/25 11:00
Percent Solids: 52

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-03
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 313 (5)	---	9050A	---	1	JLK	03/07/25 21:26	umhos/cm	DC50736
Corrosivity (pH)	5.93 (N/A)	---	9045	---	1	CCP	03/07/25 20:17	S.U.	DC50725
Corrosivity (pH) Sample Temp	19.3	---	2550B	---	1	CCP	03/07/25 20:17	°C	DC50725
Flashpoint	> 200 (N/A)	---	1010A	---	1	CCP	03/10/25 15:30	°F	DC51036
Percent Moisture	48 (1)	---	2540G	---	1	CCP	03/07/25 20:00	%	DC50727
Reactive Cyanide	ND (2.0)	---	7.3.3.2	---	1	EAM	03/10/25 16:29	mg/kg	DC51035
Reactive Sulfide	ND (2.0)	---	7.3.4.1	---	1	EAM	03/10/25 16:29	mg/kg	DC51035
Total Organic Carbon (Average)	83200 (500)	---	LK	---	1	CCP	03/20/25 13:58	mg/kg	[CALC]

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-3
Date Sampled: 03/05/25 11:00

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-03
Sample Matrix: Sediment

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)	---		---				%	
Water Content	See Attached (N/A)	---		---				%	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-3
Date Sampled: 03/05/25 11:00
Percent Solids: 52
Initial Volume: 29.9g
Final Volume: 2ml
Extraction Method: 3540C

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-03
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: JLG
Prepared: 3/11/25 10:28

8082 Polychlorinated Biphenyls (PCB) / Congeners

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
BZ#8	ND (0.00052)	---	8082A Cong	---	1	03/13/25 17:36	D5C0271	DC51104
BZ#18	ND (0.00052)	---	8082A Cong	---	1	03/13/25 17:36	D5C0271	DC51104
BZ#28	ND (0.00052)	---	8082A Cong	---	1	03/13/25 17:36	D5C0271	DC51104
BZ#44	ND (0.00052)	---	8082A Cong	---	1	03/13/25 17:36	D5C0271	DC51104
BZ#52	ND (0.00052)	---	8082A Cong	---	1	03/13/25 17:36	D5C0271	DC51104
BZ#66	ND (0.00052)	---	8082A Cong	---	1	03/13/25 17:36	D5C0271	DC51104
BZ#101	0.00199 (0.00052)	---	8082A Cong	---	1	03/13/25 17:36	D5C0271	DC51104
BZ#105	P, LC 0.00124 (0.00052)	---	8082A Cong	---	1	03/13/25 17:36	D5C0271	DC51104
BZ#118	0.00286 (0.00052)	---	8082A Cong	---	1	03/13/25 17:36	D5C0271	DC51104
BZ#128 [2C]	0.00072 (0.00052)	---	8082A Cong	---	1	03/13/25 17:36	D5C0271	DC51104
BZ#138	P, LC 0.00275 (0.00052)	---	8082A Cong	---	1	03/13/25 17:36	D5C0271	DC51104
BZ#153 [2C]	P, LC 0.00171 (0.00052)	---	8082A Cong	---	1	03/13/25 17:36	D5C0271	DC51104
BZ#170 [2C]	0.00070 (0.00052)	---	8082A Cong	---	1	03/13/25 17:36	D5C0271	DC51104
BZ#180	0.00105 (0.00052)	---	8082A Cong	---	1	03/13/25 17:36	D5C0271	DC51104
BZ#187	P, LC 0.00057 (0.00052)	---	8082A Cong	---	1	03/13/25 17:36	D5C0271	DC51104
BZ#195	ND (0.00052)	---	8082A Cong	---	1	03/13/25 17:36	D5C0271	DC51104
BZ#206	ND (0.00052)	---	8082A Cong	---	1	03/13/25 17:36	D5C0271	DC51104
BZ#209	ND (0.00052)	---	8082A Cong	---	1	03/13/25 17:36	D5C0271	DC51104

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: Tetrachloro-m-xylene	78 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	76 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-4
Date Sampled: 03/05/25 12:00
Percent Solids: 43

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-04
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Arsenic	7.92 (2.13)	---	6010D	---	1	CEV	03/10/25 18:53	5.49 100	DC51007
Barium	69.6 (0.85)	---	6010D	---	1	CEV	03/10/25 18:53	5.49 100	DC51007
Cadmium	ND (0.43)	---	6010D	---	1	CEV	03/10/25 18:53	5.49 100	DC51007
Chromium	8.16 (0.85)	---	6010D	---	1	CEV	03/10/25 18:53	5.49 100	DC51007
Lead	231 (4.26)	---	6010D	---	1	CEV	03/10/25 18:53	5.49 100	DC51007
Mercury	0.402 (0.113)	---	7471B	---	5	BJV	03/11/25 14:16	2.05 40	DC51008
Selenium	ND (4.26)	---	6010D	---	1	CEV	03/10/25 18:53	5.49 100	DC51007
Silver	ND (0.43)	---	6010D	---	1	CEV	03/10/25 18:53	5.49 100	DC51007

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-4
Date Sampled: 03/05/25 12:00
Percent Solids: 43
Initial Volume: 19.2g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-04
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	0.909 (0.061)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
1,2,4-Trichlorobenzene	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
1,2-Dichlorobenzene	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
1,3-Dichlorobenzene	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
1,4-Dichlorobenzene	ND (0.305)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
2,4,5-Trichlorophenol	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
2,4,6-Trichlorophenol	ND (0.305)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
2,4-Dichlorophenol	ND (0.305)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
2,4-Dimethylphenol	ND (0.426)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
2,4-Dinitrophenol	ND (1.22)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
2,4-Dinitrotoluene	ND (0.305)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
2,6-Dinitrotoluene	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
2-Chloronaphthalene	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
2-Chlorophenol	ND (0.305)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
2-Methylnaphthalene	2.93 (0.305)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
2-Methylphenol	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
2-Nitrophenol	ND (1.22)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
3,3'-Dichlorobenzidine	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
3+4-Methylphenol	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
4-Bromophenyl-phenylether	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
4-Chloroaniline	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
4-Nitrophenol	ND (2.44)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Acenaphthene	15.5 (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Acenaphthylene	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Acetophenone	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Aniline	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Anthracene	32.4 (6.09)	---	8270E	---	10	TJ	03/11/25 21:49	D5C0182	DC50743

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-4
Date Sampled: 03/05/25 12:00
Percent Solids: 43
Initial Volume: 19.2g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-04
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Azobenzene	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Benzo(a)anthracene	51.2 (6.09)	---	8270E	---	10	TJ	03/11/25 21:49	D5C0182	DC50743
Benzo(a)pyrene	49.8 (6.09)	---	8270E	---	10	TJ	03/11/25 21:49	D5C0182	DC50743
Benzo(b)fluoranthene	52.1 (6.09)	---	8270E	---	10	TJ	03/11/25 21:49	D5C0182	DC50743
Benzo(g,h,i)perylene	30.3 (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Benzo(k)fluoranthene	20.5 (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
bis(2-Chloroethoxy)methane	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
bis(2-Chloroethyl)ether	ND (0.305)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
bis(2-chloroisopropyl)Ether	ND (0.305)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
bis(2-Ethylhexyl)phthalate	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Butylbenzylphthalate	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Chrysene	54.5 (6.09)	---	8270E	---	10	TJ	03/11/25 21:49	D5C0182	DC50743
Dibenzo(a,h)Anthracene	6.99 (0.305)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Dibenzofuran	10.5 (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Diethylphthalate	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Dimethylphthalate	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Di-n-butylphthalate	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Di-n-octylphthalate	ND (1.22)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Fluoranthene	172 (6.09)	---	8270E	---	10	TJ	03/11/25 21:49	D5C0182	DC50743
Fluorene	18.2 (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Hexachlorobenzene	ND (0.305)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Hexachlorobutadiene	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Hexachloroethane	ND (0.305)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Indeno(1,2,3-cd)Pyrene	29.7 (6.09)	---	8270E	---	10	TJ	03/11/25 21:49	D5C0182	DC50743
Isophorone	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Naphthalene	3.30 (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Nitrobenzene	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-4
Date Sampled: 03/05/25 12:00
Percent Solids: 43
Initial Volume: 19.2g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-04
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
N-Nitrosodimethylamine	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Pentachlorophenol	ND (1.22)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Phenanthrene	140 (6.09)	---	8270E	---	10	TJ	03/11/25 21:49	D5C0182	DC50743
Phenol	ND (0.609)	---	8270E	---	1	TJ	03/10/25 21:55	D5C0182	DC50743
Pyrene	123 (6.09)	---	8270E	---	10	TJ	03/11/25 21:49	D5C0182	DC50743

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	67 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	66 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	65 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	65 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	64 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	55 %		30-130
<i>Surrogate: Phenol-d6</i>	62 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	71 %		30-130

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
 Client Project ID: Lily Pond - 401WQ
 Client Sample ID: 2025-SS-4
 Date Sampled: 03/05/25 12:00
 Percent Solids: 43
 Initial Volume: 25.1g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
 ESS Laboratory Sample ID: 25C0241-04
 Sample Matrix: Sediment
 Units: mg/kg dry

Prepared: 3/10/25 16:33

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (23.3)	---	MADEP-EPH	---	1	JDN	03/12/25 2:41	D5C0218	DC51006
C19-C36 Aliphatics1	ND (23.3)	---	MADEP-EPH	---	1	JDN	03/12/25 2:41	D5C0218	DC51006
C11-C22 Unadjusted Aromatics1	116 (23.3)	---	EPH8270	---	1	DMC	03/11/25 16:42	D5C0203	DC51006
C11-C22 Aromatics1,2	76.1 (24.9)	---	EPH8270	---		TJ	03/13/25 7:12	---	[CALC]
2-Methylnaphthalene	ND (0.093)	---	EPH8270SIM	---	5	TJ	03/13/25 7:12	D5C0256	DC51006
Acenaphthene	0.536 (0.093)	---	EPH8270SIM	---	5	TJ	03/13/25 7:12	D5C0256	DC51006
Naphthalene	0.106 (0.093)	---	EPH8270SIM	---	5	TJ	03/13/25 7:12	D5C0256	DC51006
Phenanthrene	5.74 (0.093)	---	EPH8270SIM	---	5	TJ	03/13/25 7:12	D5C0256	DC51006
Acenaphthylene	ND (0.093)	---	EPH8270SIM	---	5	TJ	03/13/25 7:12	D5C0256	DC51006
Anthracene	1.42 (0.093)	---	EPH8270SIM	---	5	TJ	03/13/25 7:12	D5C0256	DC51006
Benzo(a)anthracene	3.06 (0.093)	---	EPH8270SIM	---	5	TJ	03/13/25 7:12	D5C0256	DC51006
Benzo(a)pyrene	2.84 (0.093)	---	EPH8270SIM	---	5	TJ	03/13/25 7:12	D5C0256	DC51006
Benzo(b)fluoranthene	2.19 (0.093)	---	EPH8270SIM	---	5	TJ	03/13/25 7:12	D5C0256	DC51006
Benzo(g,h,i)perylene	1.60 (0.093)	---	EPH8270SIM	---	5	TJ	03/13/25 7:12	D5C0256	DC51006
Benzo(k)fluoranthene	2.15 (0.093)	---	EPH8270SIM	---	5	TJ	03/13/25 7:12	D5C0256	DC51006
Chrysene	2.70 (0.093)	---	EPH8270SIM	---	5	TJ	03/13/25 7:12	D5C0256	DC51006
Dibenzo(a,h)Anthracene	0.808 (0.093)	---	EPH8270SIM	---	5	TJ	03/13/25 7:12	D5C0256	DC51006
Fluoranthene	7.86 (0.093)	---	EPH8270SIM	---	5	TJ	03/13/25 7:12	D5C0256	DC51006
Fluorene	0.582 (0.093)	---	EPH8270SIM	---	5	TJ	03/13/25 7:12	D5C0256	DC51006
Indeno(1,2,3-cd)Pyrene	1.44 (0.093)	---	EPH8270SIM	---	5	TJ	03/13/25 7:12	D5C0256	DC51006
Pyrene	6.83 (0.093)	---	EPH8270SIM	---	5	TJ	03/13/25 7:12	D5C0256	DC51006

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	66 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	102 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	103 %		40-140
<i>Surrogate: O-Terphenyl</i>	82 %		40-140

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-4
Date Sampled: 03/05/25 12:00
Percent Solids: 43
Initial Volume: 20.3g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-04
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: DMC
Prepared: 3/10/25 10:18

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	0.227 (0.0576)	---	8081B	---	10	03/12/25 15:03	D5C0200	DC51003
4,4'-DDE	0.352 (0.0576)	---	8081B	---	10	03/12/25 15:03	D5C0200	DC51003
4,4'-DDT [2C]	0.0342 (0.0058)	---	8081B	---	1	03/11/25 19:02	D5C0200	DC51003
Aldrin	ND (0.0058)	---	8081B	---	1	03/11/25 19:02	D5C0200	DC51003
alpha-BHC	ND (0.0058)	---	8081B	---	1	03/11/25 19:02	D5C0200	DC51003
alpha-Chlordane	ND (0.0058)	---	8081B	---	1	03/11/25 19:02	D5C0200	DC51003
beta-BHC	ND (0.0058)	---	8081B	---	1	03/11/25 19:02	D5C0200	DC51003
Chlordane (Total)	ND (0.0461)	---	8081B	---	1	03/11/25 19:02	D5C0200	DC51003
delta-BHC	ND (0.0058)	---	8081B	---	1	03/11/25 19:02	D5C0200	DC51003
Dieldrin	ND (0.0058)	---	8081B	---	1	03/11/25 19:02	D5C0200	DC51003
Endosulfan I	ND (0.0058)	---	8081B	---	1	03/11/25 19:02	D5C0200	DC51003
Endosulfan II	ND (0.0058)	---	8081B	---	1	03/11/25 19:02	D5C0200	DC51003
Endosulfan Sulfate	ND (0.0058)	---	8081B	---	1	03/11/25 19:02	D5C0200	DC51003
Endrin	ND (0.0058)	---	8081B	---	1	03/11/25 19:02	D5C0200	DC51003
Endrin Ketone	ND (0.0058)	---	8081B	---	1	03/11/25 19:02	D5C0200	DC51003
gamma-BHC (Lindane)	ND (0.0035)	---	8081B	---	1	03/11/25 19:02	D5C0200	DC51003
gamma-Chlordane	ND (0.0058)	---	8081B	---	1	03/11/25 19:02	D5C0200	DC51003
Heptachlor	ND (0.0058)	---	8081B	---	1	03/11/25 19:02	D5C0200	DC51003
Heptachlor Epoxide	ND (0.0058)	---	8081B	---	1	03/11/25 19:02	D5C0200	DC51003
Hexachlorobenzene	ND (0.0058)	---	8081B	---	1	03/11/25 19:02	D5C0200	DC51003
Methoxychlor [2C]	ND (0.0058)	---	8081B	---	1	03/11/25 19:02	D5C0200	DC51003

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: Decachlorobiphenyl	57 %		30-150
Surrogate: Decachlorobiphenyl [2C]	60 %		30-150
Surrogate: Tetrachloro-m-xylene	49 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	42 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-4
Date Sampled: 03/05/25 12:00
Percent Solids: 43
Initial Volume: 10.6g
Final Volume: 4ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-04
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: DMC
Prepared: 3/11/25 18:00

8151A Chlorinated Herbicides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2,4,5-T	ND (0.021)	---	8151A	---	1	03/14/25 7:17	D5C0281	DC51147
2,4,5-TP (Silvex)	ND (0.021)	---	8151A	---	1	03/14/25 7:17	D5C0281	DC51147
2,4-D	ND (0.104)	---	8151A	---	1	03/14/25 7:17	D5C0281	DC51147
2,4-DB	ND (0.105)	---	8151A	---	1	03/14/25 7:17	D5C0281	DC51147
Dalapon	ND (0.100)	---	8151A	---	1	03/14/25 7:17	D5C0281	DC51147
Dicamba	ND (0.021)	---	8151A	---	1	03/14/25 7:17	D5C0281	DC51147
Dichlorprop	ND (0.104)	---	8151A	---	1	03/14/25 7:17	D5C0281	DC51147
MCPA	ND (5.13)	---	8151A	---	1	03/14/25 7:17	D5C0281	DC51147
MCPP	ND (5.19)	---	8151A	---	1	03/14/25 7:17	D5C0281	DC51147

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: DCAA</i>	<i>71 %</i>		<i>30-150</i>
<i>Surrogate: DCAA [2C]</i>	<i>61 %</i>		<i>30-150</i>

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-4
Date Sampled: 03/05/25 12:00
Percent Solids: 43
Initial Volume: 19.2g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-04
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: JDN
Prepared: 3/7/25 22:15

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons (C9-C36)	245 (24.4)	---	8100M	---	1	03/10/25 21:05	---	DC50744
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		65 %		40-140				

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-4
Date Sampled: 03/05/25 12:00
Percent Solids: 43

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-04
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 96 (5)	---	9050A	---	1	JLK	03/07/25 21:26	umhos/cm	DC50736
Corrosivity (pH)	6.36 (N/A)	---	9045	---	1	CCP	03/07/25 20:17	S.U.	DC50725
Corrosivity (pH) Sample Temp	19.1	---	2550B	---	1	CCP	03/07/25 20:17	°C	DC50725
Flashpoint	> 200 (N/A)	---	1010A	---	1	CCP	03/10/25 15:30	°F	DC51036
Percent Moisture	57 (1)	---	2540G	---	1	CCP	03/07/25 20:00	%	DC50727
Reactive Cyanide	ND (2.0)	---	7.3.3.2	---	1	EAM	03/10/25 16:29	mg/kg	DC51035
Reactive Sulfide	ND (2.0)	---	7.3.4.1	---	1	EAM	03/10/25 16:29	mg/kg	DC51035
Total Organic Carbon (Average)	93000 (500)	---	LK	---	1	CCP	03/20/25 14:15	mg/kg	[CALC]

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-4
Date Sampled: 03/05/25 12:00

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-04
Sample Matrix: Sediment

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Coal/Wood Ash Determination	See Attached (N/A)	---		---				%	
Grain Size	See Attached (N/A)	---		---				%	
Water Content	See Attached (N/A)	---		---				%	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-4
Date Sampled: 03/05/25 12:00
Percent Solids: 43
Initial Volume: 30.1g
Final Volume: 2ml
Extraction Method: 3540C

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-04
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: JLG
Prepared: 3/11/25 10:28

8082 Polychlorinated Biphenyls (PCB) / Congeners

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
BZ#8	ND (0.00063)	---	8082A Cong	---	1	03/13/25 18:07	D5C0271	DC51104
BZ#18	ND (0.00063)	---	8082A Cong	---	1	03/13/25 18:07	D5C0271	DC51104
BZ#28	ND (0.00063)	---	8082A Cong	---	1	03/13/25 18:07	D5C0271	DC51104
BZ#44	ND (0.00063)	---	8082A Cong	---	1	03/13/25 18:07	D5C0271	DC51104
BZ#52	ND (0.00063)	---	8082A Cong	---	1	03/13/25 18:07	D5C0271	DC51104
BZ#66	ND (0.00063)	---	8082A Cong	---	1	03/13/25 18:07	D5C0271	DC51104
BZ#101	ND (0.00063)	---	8082A Cong	---	1	03/13/25 18:07	D5C0271	DC51104
BZ#105 [2C]	ND (0.00063)	---	8082A Cong	---	1	03/13/25 18:07	D5C0271	DC51104
BZ#118 [2C]	ND (0.00063)	---	8082A Cong	---	1	03/13/25 18:07	D5C0271	DC51104
BZ#128	ND (0.00063)	---	8082A Cong	---	1	03/13/25 18:07	D5C0271	DC51104
BZ#138	ND (0.00063)	---	8082A Cong	---	1	03/13/25 18:07	D5C0271	DC51104
BZ#153	ND (0.00063)	---	8082A Cong	---	1	03/13/25 18:07	D5C0271	DC51104
BZ#170	ND (0.00063)	---	8082A Cong	---	1	03/13/25 18:07	D5C0271	DC51104
BZ#180	ND (0.00063)	---	8082A Cong	---	1	03/13/25 18:07	D5C0271	DC51104
BZ#187	ND (0.00063)	---	8082A Cong	---	1	03/13/25 18:07	D5C0271	DC51104
BZ#195	ND (0.00063)	---	8082A Cong	---	1	03/13/25 18:07	D5C0271	DC51104
BZ#206	ND (0.00063)	---	8082A Cong	---	1	03/13/25 18:07	D5C0271	DC51104
BZ#209	ND (0.00063)	---	8082A Cong	---	1	03/13/25 18:07	D5C0271	DC51104

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	33 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	32 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-5
Date Sampled: 03/05/25 13:15
Percent Solids: 59

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-05
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Arsenic	5.83 (1.68)	---	6010D	---	1	CEV	03/10/25 18:55	5.05 100	DC51007
Barium	85.2 (0.67)	---	6010D	---	1	CEV	03/10/25 18:55	5.05 100	DC51007
Cadmium	ND (0.34)	---	6010D	---	1	CEV	03/10/25 18:55	5.05 100	DC51007
Chromium	14.2 (0.67)	---	6010D	---	1	CEV	03/10/25 18:55	5.05 100	DC51007
Lead	344 (3.36)	---	6010D	---	1	CEV	03/10/25 18:55	5.05 100	DC51007
Mercury	0.274 (0.016)	---	7471B	---	1	BJV	03/11/25 12:52	2.05 40	DC51008
Selenium	ND (3.36)	---	6010D	---	1	CEV	03/10/25 18:55	5.05 100	DC51007
Silver	ND (0.34)	---	6010D	---	1	CEV	03/10/25 18:55	5.05 100	DC51007

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-5
Date Sampled: 03/05/25 13:15
Percent Solids: 59

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-05
Sample Matrix: Sediment
Units: mg/L

Extraction Method: 3005A

1311 TCLP Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>TCLP Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Lead	0.45 (0.05)	---	1311/6010D	5	1	CEV	04/11/25 23:32	50 50	DD51127

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-5
Date Sampled: 03/05/25 13:15
Percent Solids: 59
Initial Volume: 20.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-05
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.042)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
1,2,4-Trichlorobenzene	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
1,2-Dichlorobenzene	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
1,3-Dichlorobenzene	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
1,4-Dichlorobenzene	ND (0.211)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
2,4,5-Trichlorophenol	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
2,4,6-Trichlorophenol	ND (0.211)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
2,4-Dichlorophenol	ND (0.211)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
2,4-Dimethylphenol	ND (0.295)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
2,4-Dinitrophenol	ND (0.844)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
2,4-Dinitrotoluene	ND (0.211)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
2,6-Dinitrotoluene	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
2-Chloronaphthalene	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
2-Chlorophenol	ND (0.211)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
2-Methylnaphthalene	ND (0.211)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
2-Methylphenol	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
2-Nitrophenol	ND (0.844)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
3,3'-Dichlorobenzidine	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
3+4-Methylphenol	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
4-Bromophenyl-phenylether	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
4-Chloroaniline	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
4-Nitrophenol	ND (1.69)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Acenaphthene	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Acenaphthylene	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Acetophenone	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Aniline	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Anthracene	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-5
Date Sampled: 03/05/25 13:15
Percent Solids: 59
Initial Volume: 20.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-05
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Azobenzene	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Benzo(a)anthracene	0.463 (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Benzo(a)pyrene	0.492 (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Benzo(b)fluoranthene	0.558 (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Benzo(g,h,i)perylene	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Benzo(k)fluoranthene	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
bis(2-Chloroethoxy)methane	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
bis(2-Chloroethyl)ether	ND (0.211)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
bis(2-chloroisopropyl)Ether	ND (0.211)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
bis(2-Ethylhexyl)phthalate	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Butylbenzylphthalate	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Chrysene	0.516 (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Dibenzo(a,h)Anthracene	ND (0.211)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Dibenzofuran	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Diethylphthalate	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Dimethylphthalate	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Di-n-butylphthalate	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Di-n-octylphthalate	ND (0.844)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Fluoranthene	0.975 (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Fluorene	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Hexachlorobenzene	ND (0.211)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Hexachlorobutadiene	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Hexachloroethane	ND (0.211)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Indeno(1,2,3-cd)Pyrene	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Isophorone	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Naphthalene	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Nitrobenzene	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-5
Date Sampled: 03/05/25 13:15
Percent Solids: 59
Initial Volume: 20.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-05
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
N-Nitrosodimethylamine	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Pentachlorophenol	ND (0.844)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Phenanthrene	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Phenol	ND (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743
Pyrene	0.786 (0.422)	---	8270E	---	1	TJ	03/10/25 22:26	D5C0182	DC50743

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	91 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	99 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	88 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	92 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	83 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	83 %		30-130
<i>Surrogate: Phenol-d6</i>	89 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	98 %		30-130

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
 Client Project ID: Lily Pond - 401WQ
 Client Sample ID: 2025-SS-5
 Date Sampled: 03/05/25 13:15
 Percent Solids: 59
 Initial Volume: 24.9g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
 ESS Laboratory Sample ID: 25C0241-05
 Sample Matrix: Sediment
 Units: mg/kg dry

Prepared: 3/10/25 16:33

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (17.0)	---	MADEP-EPH	---	1	JDN	03/12/25 3:16	D5C0218	DC51006
C19-C36 Aliphatics1	66.3 (17.0)	---	MADEP-EPH	---	1	JDN	03/12/25 3:16	D5C0218	DC51006
C11-C22 Unadjusted Aromatics1	88.4 (17.0)	---	EPH8270	---	1	DMC	03/11/25 17:20	D5C0203	DC51006
C11-C22 Aromatics1,2	56.3 (17.5)	---	EPH8270	---		TJ	03/13/25 8:08	---	[CALC]
2-Methylnaphthalene	0.051 (0.014)	---	EPH8270SIM	---	1	TJ	03/13/25 7:40	D5C0256	DC51006
Acenaphthene	0.043 (0.014)	---	EPH8270SIM	---	1	TJ	03/13/25 7:40	D5C0256	DC51006
Naphthalene	0.190 (0.014)	---	EPH8270SIM	---	1	TJ	03/13/25 7:40	D5C0256	DC51006
Phenanthrene	2.00 (0.014)	---	EPH8270SIM	---	1	TJ	03/13/25 7:40	D5C0256	DC51006
Acenaphthylene	0.225 (0.014)	---	EPH8270SIM	---	1	TJ	03/13/25 7:40	D5C0256	DC51006
Anthracene	0.417 (0.014)	---	EPH8270SIM	---	1	TJ	03/13/25 7:40	D5C0256	DC51006
Benzo(a)anthracene	2.98 (0.014)	---	EPH8270SIM	---	1	TJ	03/13/25 7:40	D5C0256	DC51006
Benzo(a)pyrene	2.24 (0.014)	---	EPH8270SIM	---	1	TJ	03/13/25 7:40	D5C0256	DC51006
Benzo(b)fluoranthene	1.90 (0.014)	---	EPH8270SIM	---	1	TJ	03/13/25 7:40	D5C0256	DC51006
Benzo(g,h,i)perylene	1.49 (0.014)	---	EPH8270SIM	---	1	TJ	03/13/25 7:40	D5C0256	DC51006
Benzo(k)fluoranthene	2.31 (0.014)	---	EPH8270SIM	---	1	TJ	03/13/25 7:40	D5C0256	DC51006
Chrysene	2.95 (0.014)	---	EPH8270SIM	---	1	TJ	03/13/25 7:40	D5C0256	DC51006
Dibenzo(a,h)Anthracene	0.716 (0.014)	---	EPH8270SIM	---	1	TJ	03/13/25 7:40	D5C0256	DC51006
Fluoranthene	5.95 (0.136)	---	EPH8270SIM	---	10	TJ	03/13/25 8:08	D5C0256	DC51006
Fluorene	0.099 (0.014)	---	EPH8270SIM	---	1	TJ	03/13/25 7:40	D5C0256	DC51006
Indeno(1,2,3-cd)Pyrene	1.21 (0.014)	---	EPH8270SIM	---	1	TJ	03/13/25 7:40	D5C0256	DC51006
Pyrene	7.28 (0.136)	---	EPH8270SIM	---	10	TJ	03/13/25 8:08	D5C0256	DC51006

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: 1-Chlorooctadecane	72 %		40-140
Surrogate: 2-Bromonaphthalene	97 %		40-140
Surrogate: 2-Fluorobiphenyl	95 %		40-140
Surrogate: O-Terphenyl	71 %		40-140

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
 Client Project ID: Lily Pond - 401WQ
 Client Sample ID: 2025-SS-5
 Date Sampled: 03/05/25 13:15
 Percent Solids: 59
 Initial Volume: 19.9g
 Final Volume: 5ml
 Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
 ESS Laboratory Sample ID: 25C0241-05
 Sample Matrix: Sediment
 Units: mg/kg dry
 Analyst: DMC
 Prepared: 3/10/25 10:18

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD [2C]	P, LC 0.0103 (0.0043)	---	8081B	---	1	03/11/25 19:29	D5C0200	DC51003
4,4'-DDE [2C]	0.0241 (0.0043)	---	8081B	---	1	03/11/25 19:29	D5C0200	DC51003
4,4'-DDT [2C]	0.0096 (0.0043)	---	8081B	---	1	03/11/25 19:29	D5C0200	DC51003
Aldrin	ND (0.0043)	---	8081B	---	1	03/11/25 19:29	D5C0200	DC51003
alpha-BHC	ND (0.0043)	---	8081B	---	1	03/11/25 19:29	D5C0200	DC51003
alpha-Chlordane	0.0060 (0.0043)	---	8081B	---	1	03/11/25 19:29	D5C0200	DC51003
beta-BHC	ND (0.0043)	---	8081B	---	1	03/11/25 19:29	D5C0200	DC51003
Chlordane (Total)	ND (0.0341)	---	8081B	---	1	03/11/25 19:29	D5C0200	DC51003
delta-BHC	ND (0.0043)	---	8081B	---	1	03/11/25 19:29	D5C0200	DC51003
Dieldrin	ND (0.0043)	---	8081B	---	1	03/11/25 19:29	D5C0200	DC51003
Endosulfan I	ND (0.0043)	---	8081B	---	1	03/11/25 19:29	D5C0200	DC51003
Endosulfan II	ND (0.0043)	---	8081B	---	1	03/11/25 19:29	D5C0200	DC51003
Endosulfan Sulfate	ND (0.0043)	---	8081B	---	1	03/11/25 19:29	D5C0200	DC51003
Endrin	ND (0.0043)	---	8081B	---	1	03/11/25 19:29	D5C0200	DC51003
Endrin Ketone	ND (0.0043)	---	8081B	---	1	03/11/25 19:29	D5C0200	DC51003
gamma-BHC (Lindane)	ND (0.0026)	---	8081B	---	1	03/11/25 19:29	D5C0200	DC51003
gamma-Chlordane	ND (0.0043)	---	8081B	---	1	03/11/25 19:29	D5C0200	DC51003
Heptachlor	ND (0.0043)	---	8081B	---	1	03/11/25 19:29	D5C0200	DC51003
Heptachlor Epoxide	ND (0.0043)	---	8081B	---	1	03/11/25 19:29	D5C0200	DC51003
Hexachlorobenzene	ND (0.0043)	---	8081B	---	1	03/11/25 19:29	D5C0200	DC51003
Methoxychlor	ND (0.0043)	---	8081B	---	1	03/11/25 19:29	D5C0200	DC51003

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: Decachlorobiphenyl	54 %		30-150
Surrogate: Decachlorobiphenyl [2C]	67 %		30-150
Surrogate: Tetrachloro-m-xylene	63 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	55 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-5
Date Sampled: 03/05/25 13:15
Percent Solids: 59
Initial Volume: 10.2g
Final Volume: 4ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-05
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: DMC
Prepared: 3/11/25 18:00

8151A Chlorinated Herbicides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2,4,5-T	ND (0.016)	---	8151A	---	1	03/14/25 7:43	D5C0281	DC51147
2,4,5-TP (Silvex)	ND (0.016)	---	8151A	---	1	03/14/25 7:43	D5C0281	DC51147
2,4-D	ND (0.078)	---	8151A	---	1	03/14/25 7:43	D5C0281	DC51147
2,4-DB	ND (0.079)	---	8151A	---	1	03/14/25 7:43	D5C0281	DC51147
Dalapon	ND (0.076)	---	8151A	---	1	03/14/25 7:43	D5C0281	DC51147
Dicamba	ND (0.016)	---	8151A	---	1	03/14/25 7:43	D5C0281	DC51147
Dichlorprop	ND (0.078)	---	8151A	---	1	03/14/25 7:43	D5C0281	DC51147
MCPA	ND (3.87)	---	8151A	---	1	03/14/25 7:43	D5C0281	DC51147
MCPP	ND (3.91)	---	8151A	---	1	03/14/25 7:43	D5C0281	DC51147

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: DCAA</i>	<i>76 %</i>		<i>30-150</i>
<i>Surrogate: DCAA [2C]</i>	<i>66 %</i>		<i>30-150</i>

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-5
Date Sampled: 03/05/25 13:15
Percent Solids: 59
Initial Volume: 20g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-05
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: JDN
Prepared: 3/7/25 22:15

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons (C9-C36)	150 (17.0)	---	8100M	---	1	03/10/25 21:36	---	DC50744
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
Surrogate: O-Terphenyl		72 %		40-140				

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-5
Date Sampled: 03/05/25 13:15
Percent Solids: 59

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-05
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 79 (5)	---	9050A	---	1	JLK	03/07/25 21:26	umhos/cm	DC50736
Corrosivity (pH)	6.31 (N/A)	---	9045	---	1	CCP	03/07/25 20:17	S.U.	DC50725
Corrosivity (pH) Sample Temp	19.3	---	2550B	---	1	CCP	03/07/25 20:17	°C	DC50725
Flashpoint	> 200 (N/A)	---	1010A	---	1	CCP	03/10/25 15:30	°F	DC51036
Percent Moisture	41 (1)	---	2540G	---	1	CCP	03/07/25 20:00	%	DC50727
Reactive Cyanide	ND (2.0)	---	7.3.3.2	---	1	EAM	03/10/25 16:29	mg/kg	DC51035
Reactive Sulfide	ND (2.0)	---	7.3.4.1	---	1	EAM	03/10/25 16:29	mg/kg	DC51035
Total Organic Carbon (Average)	63400 (500)	---	LK	---	1	CCP	03/20/25 14:32	mg/kg	[CALC]

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-5
Date Sampled: 03/05/25 13:15

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-05
Sample Matrix: Sediment

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Coal/Wood Ash Determination	See Attached (N/A)	---		---				%	
Grain Size	See Attached (N/A)	---		---				%	
Water Content	See Attached (N/A)	---		---				%	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-5
Date Sampled: 03/05/25 13:15
Percent Solids: 59

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-05
Sample Matrix: Sediment
Units: °C

Extraction Method: 1311

TCLP Extraction by 1311 - Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>TCLP Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Temperature (Min C)	20.0 (N/A)	---	1311	---	1	RAP	04/11/25 9:51		DD51030
Temperature (Max C)	21.5 (N/A)	---	1311	---	1	RAP	04/11/25 9:51		DD51030
Temperature (Range)	Temperature is not within 23 +/-2 °C. (N/A)								

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-5
Date Sampled: 03/05/25 13:15
Percent Solids: 59
Initial Volume: 29.8g
Final Volume: 2ml
Extraction Method: 3540C

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-05
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: JLG
Prepared: 3/11/25 10:28

8082 Polychlorinated Biphenyls (PCB) / Congeners

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
BZ#8	ND (0.00046)	---	8082A Cong	---	1	03/13/25 18:37	D5C0271	DC51104
BZ#18	ND (0.00046)	---	8082A Cong	---	1	03/13/25 18:37	D5C0271	DC51104
BZ#28	ND (0.00046)	---	8082A Cong	---	1	03/13/25 18:37	D5C0271	DC51104
BZ#44	ND (0.00046)	---	8082A Cong	---	1	03/13/25 18:37	D5C0271	DC51104
BZ#52	ND (0.00046)	---	8082A Cong	---	1	03/13/25 18:37	D5C0271	DC51104
BZ#66	ND (0.00046)	---	8082A Cong	---	1	03/13/25 18:37	D5C0271	DC51104
BZ#101	ND (0.00046)	---	8082A Cong	---	1	03/13/25 18:37	D5C0271	DC51104
BZ#105	ND (0.00046)	---	8082A Cong	---	1	03/13/25 18:37	D5C0271	DC51104
BZ#118	ND (0.00046)	---	8082A Cong	---	1	03/13/25 18:37	D5C0271	DC51104
BZ#128	ND (0.00046)	---	8082A Cong	---	1	03/13/25 18:37	D5C0271	DC51104
BZ#138	ND (0.00046)	---	8082A Cong	---	1	03/13/25 18:37	D5C0271	DC51104
BZ#153	ND (0.00046)	---	8082A Cong	---	1	03/13/25 18:37	D5C0271	DC51104
BZ#170	ND (0.00046)	---	8082A Cong	---	1	03/13/25 18:37	D5C0271	DC51104
BZ#180 [2C]	ND (0.00046)	---	8082A Cong	---	1	03/13/25 18:37	D5C0271	DC51104
BZ#187	ND (0.00046)	---	8082A Cong	---	1	03/13/25 18:37	D5C0271	DC51104
BZ#195	ND (0.00046)	---	8082A Cong	---	1	03/13/25 18:37	D5C0271	DC51104
BZ#206 [2C]	ND (0.00046)	---	8082A Cong	---	1	03/13/25 18:37	D5C0271	DC51104
BZ#209	ND (0.00046)	---	8082A Cong	---	1	03/13/25 18:37	D5C0271	DC51104

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	56 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	53 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-6
Date Sampled: 03/05/25 12:30
Percent Solids: 46

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-06
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Arsenic	10.8 (2.05)	---	6010D	---	1	CEV	03/10/25 18:57	5.33 100	DC51007
Barium	77.1 (0.82)	---	6010D	---	1	CEV	03/10/25 18:57	5.33 100	DC51007
Cadmium	ND (0.41)	---	6010D	---	1	CEV	03/10/25 18:57	5.33 100	DC51007
Chromium	13.6 (0.82)	---	6010D	---	1	CEV	03/10/25 18:57	5.33 100	DC51007
Lead	358 (4.10)	---	6010D	---	1	CEV	03/10/25 18:57	5.33 100	DC51007
Mercury	0.673 (0.108)	---	7471B	---	5	BJV	03/11/25 14:18	2.01 40	DC51008
Selenium	ND (4.10)	---	6010D	---	1	CEV	03/10/25 18:57	5.33 100	DC51007
Silver	ND (0.41)	---	6010D	---	1	CEV	03/10/25 18:57	5.33 100	DC51007

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-6
Date Sampled: 03/05/25 12:30
Percent Solids: 46

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-06
Sample Matrix: Sediment
Units: mg/L

Extraction Method: 3005A

1311 TCLP Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>TCLP Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Lead	0.18 (0.05)	---	1311/6010D	5	1	CEV	04/11/25 23:54	50 50	DD51127

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-6
Date Sampled: 03/05/25 12:30
Percent Solids: 46
Initial Volume: 19.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-06
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.056)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
1,2,4-Trichlorobenzene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
1,2-Dichlorobenzene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
1,3-Dichlorobenzene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
1,4-Dichlorobenzene	ND (0.282)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
2,4,5-Trichlorophenol	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
2,4,6-Trichlorophenol	ND (0.282)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
2,4-Dichlorophenol	ND (0.282)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
2,4-Dimethylphenol	ND (0.395)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
2,4-Dinitrophenol	ND (1.13)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
2,4-Dinitrotoluene	ND (0.282)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
2,6-Dinitrotoluene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
2-Chloronaphthalene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
2-Chlorophenol	ND (0.282)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
2-Methylnaphthalene	ND (0.282)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
2-Methylphenol	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
2-Nitrophenol	ND (1.13)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
3,3'-Dichlorobenzidine	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
3+4-Methylphenol	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
4-Bromophenyl-phenylether	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
4-Chloroaniline	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
4-Nitrophenol	ND (2.26)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Acenaphthene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Acenaphthylene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Acetophenone	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Aniline	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Anthracene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-6
Date Sampled: 03/05/25 12:30
Percent Solids: 46
Initial Volume: 19.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-06
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Azobenzene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Benzo(a)anthracene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Benzo(a)pyrene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Benzo(b)fluoranthene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Benzo(g,h,i)perylene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Benzo(k)fluoranthene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
bis(2-Chloroethoxy)methane	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
bis(2-Chloroethyl)ether	ND (0.282)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
bis(2-chloroisopropyl)Ether	ND (0.282)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
bis(2-Ethylhexyl)phthalate	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Butylbenzylphthalate	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Chrysene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Dibenzo(a,h)Anthracene	ND (0.282)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Dibenzofuran	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Diethylphthalate	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Dimethylphthalate	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Di-n-butylphthalate	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Di-n-octylphthalate	ND (1.13)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Fluoranthene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Fluorene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Hexachlorobenzene	ND (0.282)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Hexachlorobutadiene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Hexachloroethane	ND (0.282)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Indeno(1,2,3-cd)Pyrene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Isophorone	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Naphthalene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Nitrobenzene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-6
Date Sampled: 03/05/25 12:30
Percent Solids: 46
Initial Volume: 19.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-06
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
N-Nitrosodimethylamine	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Pentachlorophenol	ND (1.13)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Phenanthrene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Phenol	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743
Pyrene	ND (0.564)	---	8270E	---	1	TJ	03/10/25 22:56	D5C0182	DC50743

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	84 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	90 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	78 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	81 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	82 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	70 %		30-130
<i>Surrogate: Phenol-d6</i>	75 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	90 %		30-130

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
 Client Project ID: Lily Pond - 401WQ
 Client Sample ID: 2025-SS-6
 Date Sampled: 03/05/25 12:30
 Percent Solids: 46
 Initial Volume: 24.8g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
 ESS Laboratory Sample ID: 25C0241-06
 Sample Matrix: Sediment
 Units: mg/kg dry

Prepared: 3/10/25 16:33

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (22.1)	---	MADEP-EPH	---	1	JDN	03/12/25 3:50	D5C0218	DC51006
C19-C36 Aliphatics1	ND (22.1)	---	MADEP-EPH	---	1	JDN	03/12/25 3:50	D5C0218	DC51006
C11-C22 Unadjusted Aromatics1	ND (22.1)	---	EPH8270	---	1	DMC	03/11/25 17:57	D5C0203	DC51006
C11-C22 Aromatics1,2	ND (22.4)	---	EPH8270	---		TJ	03/13/25 8:36	---	[CALC]
2-Methylnaphthalene	ND (0.018)	---	EPH8270SIM	---	1	TJ	03/13/25 8:36	D5C0256	DC51006
Acenaphthene	ND (0.018)	---	EPH8270SIM	---	1	TJ	03/13/25 8:36	D5C0256	DC51006
Naphthalene	0.045 (0.018)	---	EPH8270SIM	---	1	TJ	03/13/25 8:36	D5C0256	DC51006
Phenanthrene	0.425 (0.018)	---	EPH8270SIM	---	1	TJ	03/13/25 8:36	D5C0256	DC51006
Acenaphthylene	0.046 (0.018)	---	EPH8270SIM	---	1	TJ	03/13/25 8:36	D5C0256	DC51006
Anthracene	0.074 (0.018)	---	EPH8270SIM	---	1	TJ	03/13/25 8:36	D5C0256	DC51006
Benzo(a)anthracene	0.512 (0.018)	---	EPH8270SIM	---	1	TJ	03/13/25 8:36	D5C0256	DC51006
Benzo(a)pyrene	0.539 (0.018)	---	EPH8270SIM	---	1	TJ	03/13/25 8:36	D5C0256	DC51006
Benzo(b)fluoranthene	0.453 (0.018)	---	EPH8270SIM	---	1	TJ	03/13/25 8:36	D5C0256	DC51006
Benzo(g,h,i)perylene	0.326 (0.018)	---	EPH8270SIM	---	1	TJ	03/13/25 8:36	D5C0256	DC51006
Benzo(k)fluoranthene	0.416 (0.018)	---	EPH8270SIM	---	1	TJ	03/13/25 8:36	D5C0256	DC51006
Chrysene	0.521 (0.018)	---	EPH8270SIM	---	1	TJ	03/13/25 8:36	D5C0256	DC51006
Dibenzo(a,h)Anthracene	0.155 (0.018)	---	EPH8270SIM	---	1	TJ	03/13/25 8:36	D5C0256	DC51006
Fluoranthene	1.02 (0.018)	---	EPH8270SIM	---	1	TJ	03/13/25 8:36	D5C0256	DC51006
Fluorene	0.026 (0.018)	---	EPH8270SIM	---	1	TJ	03/13/25 8:36	D5C0256	DC51006
Indeno(1,2,3-cd)Pyrene	0.282 (0.018)	---	EPH8270SIM	---	1	TJ	03/13/25 8:36	D5C0256	DC51006
Pyrene	1.01 (0.018)	---	EPH8270SIM	---	1	TJ	03/13/25 8:36	D5C0256	DC51006

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	65 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	103 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	99 %		40-140
<i>Surrogate: O-Terphenyl</i>	81 %		40-140

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-6
Date Sampled: 03/05/25 12:30
Percent Solids: 46
Initial Volume: 20.5g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-06
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: DMC
Prepared: 3/10/25 10:18

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	0.0263 (0.0053)	---	8081B	---	1	03/11/25 19:57	D5C0200	DC51003
4,4'-DDE	0.0847 (0.0267)	---	8081B	---	5	03/12/25 15:30	D5C0200	DC51003
4,4'-DDT [2C]	0.0298 (0.0053)	---	8081B	---	1	03/11/25 19:57	D5C0200	DC51003
Aldrin	ND (0.0053)	---	8081B	---	1	03/11/25 19:57	D5C0200	DC51003
alpha-BHC	ND (0.0053)	---	8081B	---	1	03/11/25 19:57	D5C0200	DC51003
alpha-Chlordane	ND (0.0053)	---	8081B	---	1	03/11/25 19:57	D5C0200	DC51003
beta-BHC	ND (0.0053)	---	8081B	---	1	03/11/25 19:57	D5C0200	DC51003
Chlordane (Total)	ND (0.0427)	---	8081B	---	1	03/11/25 19:57	D5C0200	DC51003
delta-BHC	ND (0.0053)	---	8081B	---	1	03/11/25 19:57	D5C0200	DC51003
Dieldrin	ND (0.0053)	---	8081B	---	1	03/11/25 19:57	D5C0200	DC51003
Endosulfan I	ND (0.0053)	---	8081B	---	1	03/11/25 19:57	D5C0200	DC51003
Endosulfan II	ND (0.0053)	---	8081B	---	1	03/11/25 19:57	D5C0200	DC51003
Endosulfan Sulfate	ND (0.0053)	---	8081B	---	1	03/11/25 19:57	D5C0200	DC51003
Endrin	ND (0.0053)	---	8081B	---	1	03/11/25 19:57	D5C0200	DC51003
Endrin Ketone	ND (0.0053)	---	8081B	---	1	03/11/25 19:57	D5C0200	DC51003
gamma-BHC (Lindane)	ND (0.0032)	---	8081B	---	1	03/11/25 19:57	D5C0200	DC51003
gamma-Chlordane	ND (0.0053)	---	8081B	---	1	03/11/25 19:57	D5C0200	DC51003
Heptachlor	ND (0.0053)	---	8081B	---	1	03/11/25 19:57	D5C0200	DC51003
Heptachlor Epoxide	ND (0.0053)	---	8081B	---	1	03/11/25 19:57	D5C0200	DC51003
Hexachlorobenzene	ND (0.0053)	---	8081B	---	1	03/11/25 19:57	D5C0200	DC51003
Methoxychlor	ND (0.0053)	---	8081B	---	1	03/11/25 19:57	D5C0200	DC51003

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: Decachlorobiphenyl	68 %		30-150
Surrogate: Decachlorobiphenyl [2C]	71 %		30-150
Surrogate: Tetrachloro-m-xylene	68 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	60 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-6
Date Sampled: 03/05/25 12:30
Percent Solids: 46
Initial Volume: 10.1g
Final Volume: 4ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-06
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: DMC
Prepared: 3/11/25 18:00

8151A Chlorinated Herbicides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2,4,5-T	ND (0.021)	---	8151A	---	1	03/14/25 8:09	D5C0281	DC51147
2,4,5-TP (Silvex)	ND (0.021)	---	8151A	---	1	03/14/25 8:09	D5C0281	DC51147
2,4-D	ND (0.102)	---	8151A	---	1	03/14/25 8:09	D5C0281	DC51147
2,4-DB	ND (0.103)	---	8151A	---	1	03/14/25 8:09	D5C0281	DC51147
Dalapon	ND (0.099)	---	8151A	---	1	03/14/25 8:09	D5C0281	DC51147
Dicamba	ND (0.020)	---	8151A	---	1	03/14/25 8:09	D5C0281	DC51147
Dichlorprop	ND (0.102)	---	8151A	---	1	03/14/25 8:09	D5C0281	DC51147
MCPA	ND (5.04)	---	8151A	---	1	03/14/25 8:09	D5C0281	DC51147
MCPP	ND (5.09)	---	8151A	---	1	03/14/25 8:09	D5C0281	DC51147

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: DCAA</i>	63 %		30-150
<i>Surrogate: DCAA [2C]</i>	57 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-6
Date Sampled: 03/05/25 12:30
Percent Solids: 46
Initial Volume: 20.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-06
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: JDN
Prepared: 3/7/25 22:15

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons (C9-C36)	59.6 (21.8)	---	8100M	---	1	03/10/25 22:07	---	DC50744
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		71 %		40-140				

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-6
Date Sampled: 03/05/25 12:30
Percent Solids: 46

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-06
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 60 (5)	---	9050A	---	1	JLK	03/07/25 21:26	umhos/cm	DC50736
Corrosivity (pH)	5.87 (N/A)	---	9045	---	1	CCP	03/07/25 20:17	S.U.	DC50725
Corrosivity (pH) Sample Temp	19.3	---	2550B	---	1	CCP	03/07/25 20:17	°C	DC50725
Flashpoint	> 200 (N/A)	---	1010A	---	1	CCP	03/10/25 15:30	°F	DC51036
Percent Moisture	54 (1)	---	2540G	---	1	CCP	03/07/25 20:00	%	DC50727
Reactive Cyanide	ND (2.0)	---	7.3.3.2	---	1	EAM	03/10/25 16:29	mg/kg	DC51035
Reactive Sulfide	ND (2.0)	---	7.3.4.1	---	1	EAM	03/10/25 16:29	mg/kg	DC51035
Total Organic Carbon (Average)	72100 (500)	---	LK	---	1	CCP	03/20/25 14:48	mg/kg	[CALC]

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-6
Date Sampled: 03/05/25 12:30

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-06
Sample Matrix: Sediment

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Coal/Wood Ash Determination	See Attached (N/A)	---		---				%	
Grain Size	See Attached (N/A)	---		---				%	
Water Content	See Attached (N/A)	---		---				%	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-6
Date Sampled: 03/05/25 12:30
Percent Solids: 46

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-06
Sample Matrix: Sediment
Units: °C

Extraction Method: 1311

TCLP Extraction by 1311 - Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>TCLP Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Temperature (Min C)	20.0 (N/A)	---	1311	---	1	RAP	04/11/25 9:51		DD51030
Temperature (Max C)	21.5 (N/A)	---	1311	---	1	RAP	04/11/25 9:51		DD51030
Temperature (Range)	Temperature is not within 23 +/-2 °C. (N/A)								

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-6
Date Sampled: 03/05/25 12:30
Percent Solids: 46
Initial Volume: 30.2g
Final Volume: 2ml
Extraction Method: 3540C

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-06
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: JLG
Prepared: 3/11/25 10:28

8082 Polychlorinated Biphenyls (PCB) / Congeners

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
BZ#8	ND (0.00059)	---	8082A Cong	---	1	03/12/25 19:17	D5C0244	DC51104
BZ#18	ND (0.00059)	---	8082A Cong	---	1	03/12/25 19:17	D5C0244	DC51104
BZ#28	ND (0.00059)	---	8082A Cong	---	1	03/12/25 19:17	D5C0244	DC51104
BZ#44	ND (0.00059)	---	8082A Cong	---	1	03/12/25 19:17	D5C0244	DC51104
BZ#52 [2C]	ND (0.00059)	---	8082A Cong	---	1	03/12/25 19:17	D5C0244	DC51104
BZ#66	ND (0.00059)	---	8082A Cong	---	1	03/12/25 19:17	D5C0244	DC51104
BZ#101	P, LC 0.00078 (0.00059)	---	8082A Cong	---	1	03/12/25 19:17	D5C0244	DC51104
BZ#105	P, LC 0.00062 (0.00059)	---	8082A Cong	---	1	03/12/25 19:17	D5C0244	DC51104
BZ#118 [2C]	P, LC 0.00111 (0.00059)	---	8082A Cong	---	1	03/12/25 19:17	D5C0244	DC51104
BZ#128	ND (0.00059)	---	8082A Cong	---	1	03/12/25 19:17	D5C0244	DC51104
BZ#138	P, LC 0.00106 (0.00059)	---	8082A Cong	---	1	03/12/25 19:17	D5C0244	DC51104
BZ#153 [2C]	P, LC 0.00068 (0.00059)	---	8082A Cong	---	1	03/12/25 19:17	D5C0244	DC51104
BZ#170 [2C]	ND (0.00059)	---	8082A Cong	---	1	03/12/25 19:17	D5C0244	DC51104
BZ#180	ND (0.00059)	---	8082A Cong	---	1	03/12/25 19:17	D5C0244	DC51104
BZ#187	ND (0.00059)	---	8082A Cong	---	1	03/12/25 19:17	D5C0244	DC51104
BZ#195	ND (0.00059)	---	8082A Cong	---	1	03/12/25 19:17	D5C0244	DC51104
BZ#206	ND (0.00059)	---	8082A Cong	---	1	03/12/25 19:17	D5C0244	DC51104
BZ#209	ND (0.00059)	---	8082A Cong	---	1	03/12/25 19:17	D5C0244	DC51104

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: Tetrachloro-m-xylene	68 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	64 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-7
Date Sampled: 03/05/25 10:30
Percent Solids: 54

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-07
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Arsenic	4.65 (1.70)	---	6010D	---	1	CEV	03/10/25 18:59	5.44 100	DC51007
Barium	68.9 (0.68)	---	6010D	---	1	CEV	03/10/25 18:59	5.44 100	DC51007
Cadmium	ND (0.34)	---	6010D	---	1	CEV	03/10/25 18:59	5.44 100	DC51007
Chromium	18.2 (0.68)	---	6010D	---	1	CEV	03/10/25 18:59	5.44 100	DC51007
Lead	209 (3.40)	---	6010D	---	1	CEV	03/10/25 18:59	5.44 100	DC51007
Mercury	0.088 (0.015)	---	7471B	---	1	BJV	03/11/25 12:57	2.44 40	DC51008
Selenium	ND (3.40)	---	6010D	---	1	CEV	03/10/25 18:59	5.44 100	DC51007
Silver	ND (0.34)	---	6010D	---	1	CEV	03/10/25 18:59	5.44 100	DC51007

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-7
Date Sampled: 03/05/25 10:30
Percent Solids: 54
Initial Volume: 19.3g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-07
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.048)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
1,2,4-Trichlorobenzene	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
1,2-Dichlorobenzene	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
1,3-Dichlorobenzene	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
1,4-Dichlorobenzene	ND (0.240)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
2,4,5-Trichlorophenol	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
2,4,6-Trichlorophenol	ND (0.240)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
2,4-Dichlorophenol	ND (0.240)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
2,4-Dimethylphenol	ND (0.336)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
2,4-Dinitrophenol	ND (0.960)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
2,4-Dinitrotoluene	ND (0.240)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
2,6-Dinitrotoluene	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
2-Chloronaphthalene	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
2-Chlorophenol	ND (0.240)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
2-Methylnaphthalene	ND (0.240)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
2-Methylphenol	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
2-Nitrophenol	ND (0.960)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
3,3'-Dichlorobenzidine	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
3+4-Methylphenol	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
4-Bromophenyl-phenylether	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
4-Chloroaniline	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
4-Nitrophenol	ND (1.92)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Acenaphthene	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Acenaphthylene	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Acetophenone	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Aniline	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Anthracene	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-7
Date Sampled: 03/05/25 10:30
Percent Solids: 54
Initial Volume: 19.3g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-07
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Azobenzene	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Benzo(a)anthracene	0.901 (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Benzo(a)pyrene	1.06 (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Benzo(b)fluoranthene	1.25 (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Benzo(g,h,i)perylene	0.652 (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Benzo(k)fluoranthene	0.539 (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
bis(2-Chloroethoxy)methane	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
bis(2-Chloroethyl)ether	ND (0.240)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
bis(2-chloroisopropyl)Ether	ND (0.240)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
bis(2-Ethylhexyl)phthalate	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Butylbenzylphthalate	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Chrysene	1.09 (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Dibenzo(a,h)Anthracene	ND (0.240)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Dibenzofuran	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Diethylphthalate	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Dimethylphthalate	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Di-n-butylphthalate	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Di-n-octylphthalate	ND (0.960)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Fluoranthene	1.94 (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Fluorene	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Hexachlorobenzene	ND (0.240)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Hexachlorobutadiene	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Hexachloroethane	ND (0.240)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Indeno(1,2,3-cd)Pyrene	0.683 (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Isophorone	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Naphthalene	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Nitrobenzene	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-7
Date Sampled: 03/05/25 10:30
Percent Solids: 54
Initial Volume: 19.3g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-07
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
N-Nitrosodimethylamine	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Pentachlorophenol	ND (0.960)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Phenanthrene	0.676 (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Phenol	ND (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743
Pyrene	1.63 (0.480)	---	8270E	---	1	TJ	03/10/25 23:26	D5C0182	DC50743

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	83 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	85 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	78 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	81 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	81 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	74 %		30-130
<i>Surrogate: Phenol-d6</i>	79 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	87 %		30-130

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
 Client Project ID: Lily Pond - 401WQ
 Client Sample ID: 2025-SS-7
 Date Sampled: 03/05/25 10:30
 Percent Solids: 54
 Initial Volume: 25.2g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
 ESS Laboratory Sample ID: 25C0241-07
 Sample Matrix: Sediment
 Units: mg/kg dry

Prepared: 3/10/25 16:33

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (18.4)	---	MADEP-EPH	---	1	JDN	03/12/25 4:25	D5C0218	DC51006
C19-C36 Aliphatics1	19.6 (18.4)	---	MADEP-EPH	---	1	JDN	03/12/25 4:25	D5C0218	DC51006
C11-C22 Unadjusted Aromatics1	43.7 (18.4)	---	EPH8270	---	1	DMC	03/11/25 18:35	D5C0203	DC51006
C11-C22 Aromatics1,2	27.5 (18.6)	---	EPH8270	---		TJ	03/13/25 9:05	---	[CALC]
2-Methylnaphthalene	0.039 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:05	D5C0256	DC51006
Acenaphthene	0.035 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:05	D5C0256	DC51006
Naphthalene	0.152 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:05	D5C0256	DC51006
Phenanthrene	1.24 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:05	D5C0256	DC51006
Acenaphthylene	0.162 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:05	D5C0256	DC51006
Anthracene	0.238 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:05	D5C0256	DC51006
Benzo(a)anthracene	1.40 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:05	D5C0256	DC51006
Benzo(a)pyrene	1.32 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:05	D5C0256	DC51006
Benzo(b)fluoranthene	1.16 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:05	D5C0256	DC51006
Benzo(g,h,i)perylene	0.935 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:05	D5C0256	DC51006
Benzo(k)fluoranthene	1.12 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:05	D5C0256	DC51006
Chrysene	1.48 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:05	D5C0256	DC51006
Dibenzo(a,h)Anthracene	0.438 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:05	D5C0256	DC51006
Fluoranthene	2.83 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:05	D5C0256	DC51006
Fluorene	0.080 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:05	D5C0256	DC51006
Indeno(1,2,3-cd)Pyrene	0.812 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:05	D5C0256	DC51006
Pyrene	2.74 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:05	D5C0256	DC51006

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
Surrogate: 1-Chlorooctadecane	60 %		40-140
Surrogate: 2-Bromonaphthalene	102 %		40-140
Surrogate: 2-Fluorobiphenyl	99 %		40-140
Surrogate: O-Terphenyl	81 %		40-140

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-7
Date Sampled: 03/05/25 10:30
Percent Solids: 54
Initial Volume: 20.4g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-07
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: DMC
Prepared: 3/10/25 10:18

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD [2C]	ND (0.0045)	---	8081B	---	1	03/11/25 20:25	D5C0200	DC51003
4,4'-DDE [2C]	0.0051 (0.0045)	---	8081B	---	1	03/11/25 20:25	D5C0200	DC51003
4,4'-DDT [2C]	ND (0.0045)	---	8081B	---	1	03/11/25 20:25	D5C0200	DC51003
Aldrin	ND (0.0045)	---	8081B	---	1	03/11/25 20:25	D5C0200	DC51003
alpha-BHC	ND (0.0045)	---	8081B	---	1	03/11/25 20:25	D5C0200	DC51003
alpha-Chlordane	ND (0.0045)	---	8081B	---	1	03/11/25 20:25	D5C0200	DC51003
beta-BHC	ND (0.0045)	---	8081B	---	1	03/11/25 20:25	D5C0200	DC51003
Chlordane (Total)	ND (0.0363)	---	8081B	---	1	03/11/25 20:25	D5C0200	DC51003
delta-BHC	ND (0.0045)	---	8081B	---	1	03/11/25 20:25	D5C0200	DC51003
Dieldrin	ND (0.0045)	---	8081B	---	1	03/11/25 20:25	D5C0200	DC51003
Endosulfan I	ND (0.0045)	---	8081B	---	1	03/11/25 20:25	D5C0200	DC51003
Endosulfan II	ND (0.0045)	---	8081B	---	1	03/11/25 20:25	D5C0200	DC51003
Endosulfan Sulfate	ND (0.0045)	---	8081B	---	1	03/11/25 20:25	D5C0200	DC51003
Endrin	ND (0.0045)	---	8081B	---	1	03/11/25 20:25	D5C0200	DC51003
Endrin Ketone	ND (0.0045)	---	8081B	---	1	03/11/25 20:25	D5C0200	DC51003
gamma-BHC (Lindane)	ND (0.0027)	---	8081B	---	1	03/11/25 20:25	D5C0200	DC51003
gamma-Chlordane	ND (0.0045)	---	8081B	---	1	03/11/25 20:25	D5C0200	DC51003
Heptachlor	ND (0.0045)	---	8081B	---	1	03/11/25 20:25	D5C0200	DC51003
Heptachlor Epoxide	ND (0.0045)	---	8081B	---	1	03/11/25 20:25	D5C0200	DC51003
Hexachlorobenzene	ND (0.0045)	---	8081B	---	1	03/11/25 20:25	D5C0200	DC51003
Methoxychlor	ND (0.0045)	---	8081B	---	1	03/11/25 20:25	D5C0200	DC51003

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	59 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	65 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	58 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	56 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-7
Date Sampled: 03/05/25 10:30
Percent Solids: 54
Initial Volume: 10.2g
Final Volume: 4ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-07
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: DMC
Prepared: 3/11/25 18:00

8151A Chlorinated Herbicides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2,4,5-T	ND (0.017)	---	8151A	---	1	03/14/25 8:35	D5C0281	DC51147
2,4,5-TP (Silvex)	ND (0.017)	---	8151A	---	1	03/14/25 8:35	D5C0281	DC51147
2,4-D	ND (0.085)	---	8151A	---	1	03/14/25 8:35	D5C0281	DC51147
2,4-DB	ND (0.086)	---	8151A	---	1	03/14/25 8:35	D5C0281	DC51147
Dalapon	ND (0.083)	---	8151A	---	1	03/14/25 8:35	D5C0281	DC51147
Dicamba	ND (0.017)	---	8151A	---	1	03/14/25 8:35	D5C0281	DC51147
Dichlorprop	ND (0.085)	---	8151A	---	1	03/14/25 8:35	D5C0281	DC51147
MCPA	ND (4.22)	---	8151A	---	1	03/14/25 8:35	D5C0281	DC51147
MCPP	ND (4.27)	---	8151A	---	1	03/14/25 8:35	D5C0281	DC51147

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: DCAA</i>	<i>70 %</i>		<i>30-150</i>
<i>Surrogate: DCAA [2C]</i>	<i>63 %</i>		<i>30-150</i>

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-7
Date Sampled: 03/05/25 10:30
Percent Solids: 54
Initial Volume: 19.9g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-07
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: JDN
Prepared: 3/7/25 22:15

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons (C9-C36)	ND (18.6)	---	8100M	---	1	03/10/25 20:34	---	DC50744
<i>Surrogate: O-Terphenyl</i>		<i>%Recovery</i> 79 %	<i>Qualifier</i>	<i>Limits</i> 40-140				

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-7
Date Sampled: 03/05/25 10:30
Percent Solids: 54

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-07
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 64 (5)	---	9050A	---	1	JLK	03/07/25 21:26	umhos/cm	DC50736
Corrosivity (pH)	6.07 (N/A)	---	9045	---	1	CCP	03/07/25 20:17	S.U.	DC50725
Corrosivity (pH) Sample Temp	19.3	---	2550B	---	1	CCP	03/07/25 20:17	°C	DC50725
Flashpoint	> 200 (N/A)	---	1010A	---	1	CCP	03/10/25 15:30	°F	DC51036
Percent Moisture	46 (1)	---	2540G	---	1	CCP	03/07/25 20:00	%	DC50727
Reactive Cyanide	ND (2.0)	---	7.3.3.2	---	1	EAM	03/10/25 16:29	mg/kg	DC51035
Reactive Sulfide	ND (2.0)	---	7.3.4.1	---	1	EAM	03/10/25 16:29	mg/kg	DC51035
Total Organic Carbon (Average)	65400 (500)	---	LK	---	1	CCP	03/20/25 15:05	mg/kg	[CALC]

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
 Client Project ID: Lily Pond - 401WQ
 Client Sample ID: 2025-SS-7
 Date Sampled: 03/05/25 10:30

ESS Laboratory Work Order: 25C0241
 ESS Laboratory Sample ID: 25C0241-07
 Sample Matrix: Sediment

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)	---		---				%	
Water Content	See Attached (N/A)	---		---				%	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-7
Date Sampled: 03/05/25 10:30
Percent Solids: 54
Initial Volume: 30.2g
Final Volume: 2ml
Extraction Method: 3540C

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-07
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: JLG
Prepared: 3/11/25 10:28

8082 Polychlorinated Biphenyls (PCB) / Congeners

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
BZ#8	ND (0.00050)	---	8082A Cong	---	1	03/12/25 19:47	D5C0244	DC51104
BZ#18	ND (0.00050)	---	8082A Cong	---	1	03/12/25 19:47	D5C0244	DC51104
BZ#28	ND (0.00050)	---	8082A Cong	---	1	03/12/25 19:47	D5C0244	DC51104
BZ#44	ND (0.00050)	---	8082A Cong	---	1	03/12/25 19:47	D5C0244	DC51104
BZ#52	ND (0.00050)	---	8082A Cong	---	1	03/12/25 19:47	D5C0244	DC51104
BZ#66	ND (0.00050)	---	8082A Cong	---	1	03/12/25 19:47	D5C0244	DC51104
BZ#101	ND (0.00050)	---	8082A Cong	---	1	03/12/25 19:47	D5C0244	DC51104
BZ#105 [2C]	ND (0.00050)	---	8082A Cong	---	1	03/12/25 19:47	D5C0244	DC51104
BZ#118 [2C]	ND (0.00050)	---	8082A Cong	---	1	03/12/25 19:47	D5C0244	DC51104
BZ#128	ND (0.00050)	---	8082A Cong	---	1	03/12/25 19:47	D5C0244	DC51104
BZ#138	ND (0.00050)	---	8082A Cong	---	1	03/12/25 19:47	D5C0244	DC51104
BZ#153 [2C]	ND (0.00050)	---	8082A Cong	---	1	03/12/25 19:47	D5C0244	DC51104
BZ#170	ND (0.00050)	---	8082A Cong	---	1	03/12/25 19:47	D5C0244	DC51104
BZ#180 [2C]	ND (0.00050)	---	8082A Cong	---	1	03/12/25 19:47	D5C0244	DC51104
BZ#187	ND (0.00050)	---	8082A Cong	---	1	03/12/25 19:47	D5C0244	DC51104
BZ#195	ND (0.00050)	---	8082A Cong	---	1	03/12/25 19:47	D5C0244	DC51104
BZ#206	ND (0.00050)	---	8082A Cong	---	1	03/12/25 19:47	D5C0244	DC51104
BZ#209	ND (0.00050)	---	8082A Cong	---	1	03/12/25 19:47	D5C0244	DC51104

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	58 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	56 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-8
Date Sampled: 03/05/25 09:15
Percent Solids: 54

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-08
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Arsenic	3.49 (1.85)	---	6010D	---	1	CEV	03/10/25 19:01	5.03 100	DC51007
Barium	56.2 (0.74)	---	6010D	---	1	CEV	03/10/25 19:01	5.03 100	DC51007
Cadmium	ND (0.37)	---	6010D	---	1	CEV	03/10/25 19:01	5.03 100	DC51007
Chromium	10.1 (0.74)	---	6010D	---	1	CEV	03/10/25 19:01	5.03 100	DC51007
Lead	180 (3.70)	---	6010D	---	1	CEV	03/10/25 19:01	5.03 100	DC51007
Mercury	0.803 (0.084)	---	7471B	---	5	BJV	03/11/25 14:20	2.2 40	DC51008
Selenium	ND (3.70)	---	6010D	---	1	CEV	03/10/25 19:01	5.03 100	DC51007
Silver	ND (0.37)	---	6010D	---	1	CEV	03/10/25 19:01	5.03 100	DC51007

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-8
Date Sampled: 03/05/25 09:15
Percent Solids: 54
Initial Volume: 19.2g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-08
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.049)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
1,2,4-Trichlorobenzene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
1,2-Dichlorobenzene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
1,3-Dichlorobenzene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
1,4-Dichlorobenzene	ND (0.243)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
2,4,5-Trichlorophenol	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
2,4,6-Trichlorophenol	ND (0.243)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
2,4-Dichlorophenol	ND (0.243)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
2,4-Dimethylphenol	ND (0.340)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
2,4-Dinitrophenol	ND (0.970)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
2,4-Dinitrotoluene	ND (0.243)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
2,6-Dinitrotoluene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
2-Chloronaphthalene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
2-Chlorophenol	ND (0.243)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
2-Methylnaphthalene	ND (0.243)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
2-Methylphenol	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
2-Nitrophenol	ND (0.970)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
3,3'-Dichlorobenzidine	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
3+4-Methylphenol	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
4-Bromophenyl-phenylether	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
4-Chloroaniline	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
4-Nitrophenol	ND (1.94)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Acenaphthene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Acenaphthylene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Acetophenone	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Aniline	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Anthracene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-8
Date Sampled: 03/05/25 09:15
Percent Solids: 54
Initial Volume: 19.2g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-08
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Azobenzene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Benzo(a)anthracene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Benzo(a)pyrene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Benzo(b)fluoranthene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Benzo(g,h,i)perylene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Benzo(k)fluoranthene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
bis(2-Chloroethoxy)methane	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
bis(2-Chloroethyl)ether	ND (0.243)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
bis(2-chloroisopropyl)Ether	ND (0.243)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
bis(2-Ethylhexyl)phthalate	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Butylbenzylphthalate	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Chrysene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Dibenzo(a,h)Anthracene	ND (0.243)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Dibenzofuran	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Diethylphthalate	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Dimethylphthalate	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Di-n-butylphthalate	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Di-n-octylphthalate	ND (0.970)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Fluoranthene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Fluorene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Hexachlorobenzene	ND (0.243)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Hexachlorobutadiene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Hexachloroethane	ND (0.243)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Indeno(1,2,3-cd)Pyrene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Isophorone	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Naphthalene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Nitrobenzene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-8
Date Sampled: 03/05/25 09:15
Percent Solids: 54
Initial Volume: 19.2g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-08
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
N-Nitrosodimethylamine	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Pentachlorophenol	ND (0.970)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Phenanthrene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Phenol	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743
Pyrene	ND (0.485)	---	8270E	---	1	TJ	03/10/25 23:57	D5C0182	DC50743

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	80 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	82 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	76 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	78 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	74 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	71 %		30-130
<i>Surrogate: Phenol-d6</i>	77 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	84 %		30-130

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
 Client Project ID: Lily Pond - 401WQ
 Client Sample ID: 2025-SS-8
 Date Sampled: 03/05/25 09:15
 Percent Solids: 54
 Initial Volume: 25g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
 ESS Laboratory Sample ID: 25C0241-08
 Sample Matrix: Sediment
 Units: mg/kg dry

Prepared: 3/10/25 16:33

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (18.6)	---	MADEP-EPH	---	1	JDN	03/12/25 5:00	D5C0218	DC51006
C19-C36 Aliphatics1	ND (18.6)	---	MADEP-EPH	---	1	JDN	03/12/25 5:00	D5C0218	DC51006
C11-C22 Unadjusted Aromatics1	ND (18.6)	---	EPH8270	---	1	DMC	03/11/25 19:12	D5C0203	DC51006
C11-C22 Aromatics1,2	ND (18.9)	---	EPH8270	---		TJ	03/13/25 9:34	---	[CALC]
2-Methylnaphthalene	ND (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:34	D5C0256	DC51006
Acenaphthene	ND (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:34	D5C0256	DC51006
Naphthalene	0.048 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:34	D5C0256	DC51006
Phenanthrene	0.407 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:34	D5C0256	DC51006
Acenaphthylene	0.056 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:34	D5C0256	DC51006
Anthracene	0.062 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:34	D5C0256	DC51006
Benzo(a)anthracene	0.546 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:34	D5C0256	DC51006
Benzo(a)pyrene	0.602 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:34	D5C0256	DC51006
Benzo(b)fluoranthene	0.549 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:34	D5C0256	DC51006
Benzo(g,h,i)perylene	0.401 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:34	D5C0256	DC51006
Benzo(k)fluoranthene	0.467 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:34	D5C0256	DC51006
Chrysene	0.615 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:34	D5C0256	DC51006
Dibenzo(a,h)Anthracene	0.208 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:34	D5C0256	DC51006
Fluoranthene	1.08 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:34	D5C0256	DC51006
Fluorene	0.022 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:34	D5C0256	DC51006
Indeno(1,2,3-cd)Pyrene	0.367 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:34	D5C0256	DC51006
Pyrene	1.05 (0.015)	---	EPH8270SIM	---	1	TJ	03/13/25 9:34	D5C0256	DC51006

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	74 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	101 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	99 %		40-140
<i>Surrogate: O-Terphenyl</i>	82 %		40-140

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-8
Date Sampled: 03/05/25 09:15
Percent Solids: 54
Initial Volume: 20.5g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-08
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: DMC
Prepared: 3/10/25 10:18

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD [2C]	P, LC 0.0086 (0.0045)	---	8081B	---	1	03/11/25 20:52	D5C0200	DC51003
4,4'-DDE [2C]	0.0189 (0.0045)	---	8081B	---	1	03/11/25 20:52	D5C0200	DC51003
4,4'-DDT [2C]	ND (0.0045)	---	8081B	---	1	03/11/25 20:52	D5C0200	DC51003
Aldrin	ND (0.0045)	---	8081B	---	1	03/11/25 20:52	D5C0200	DC51003
alpha-BHC	ND (0.0045)	---	8081B	---	1	03/11/25 20:52	D5C0200	DC51003
alpha-Chlordane	ND (0.0045)	---	8081B	---	1	03/11/25 20:52	D5C0200	DC51003
beta-BHC	ND (0.0045)	---	8081B	---	1	03/11/25 20:52	D5C0200	DC51003
Chlordane (Total)	ND (0.0363)	---	8081B	---	1	03/11/25 20:52	D5C0200	DC51003
delta-BHC	ND (0.0045)	---	8081B	---	1	03/11/25 20:52	D5C0200	DC51003
Dieldrin	ND (0.0045)	---	8081B	---	1	03/11/25 20:52	D5C0200	DC51003
Endosulfan I	ND (0.0045)	---	8081B	---	1	03/11/25 20:52	D5C0200	DC51003
Endosulfan II	ND (0.0045)	---	8081B	---	1	03/11/25 20:52	D5C0200	DC51003
Endosulfan Sulfate	ND (0.0045)	---	8081B	---	1	03/11/25 20:52	D5C0200	DC51003
Endrin	ND (0.0045)	---	8081B	---	1	03/11/25 20:52	D5C0200	DC51003
Endrin Ketone	ND (0.0045)	---	8081B	---	1	03/11/25 20:52	D5C0200	DC51003
gamma-BHC (Lindane)	ND (0.0027)	---	8081B	---	1	03/11/25 20:52	D5C0200	DC51003
gamma-Chlordane	ND (0.0045)	---	8081B	---	1	03/11/25 20:52	D5C0200	DC51003
Heptachlor	ND (0.0045)	---	8081B	---	1	03/11/25 20:52	D5C0200	DC51003
Heptachlor Epoxide	ND (0.0045)	---	8081B	---	1	03/11/25 20:52	D5C0200	DC51003
Hexachlorobenzene	ND (0.0045)	---	8081B	---	1	03/11/25 20:52	D5C0200	DC51003
Methoxychlor [2C]	ND (0.0045)	---	8081B	---	1	03/11/25 20:52	D5C0200	DC51003

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	70 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	76 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	60 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	53 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-8
Date Sampled: 03/05/25 09:15
Percent Solids: 54
Initial Volume: 10.3g
Final Volume: 4ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-08
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: DMC
Prepared: 3/11/25 18:00

8151A Chlorinated Herbicides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2,4,5-T	ND (0.017)	---	8151A	---	1	03/14/25 9:02	D5C0281	DC51147
2,4,5-TP (Silvex)	ND (0.017)	---	8151A	---	1	03/14/25 9:02	D5C0281	DC51147
2,4-D	ND (0.085)	---	8151A	---	1	03/14/25 9:02	D5C0281	DC51147
2,4-DB	ND (0.086)	---	8151A	---	1	03/14/25 9:02	D5C0281	DC51147
Dalapon	ND (0.082)	---	8151A	---	1	03/14/25 9:02	D5C0281	DC51147
Dicamba	ND (0.017)	---	8151A	---	1	03/14/25 9:02	D5C0281	DC51147
Dichlorprop	ND (0.085)	---	8151A	---	1	03/14/25 9:02	D5C0281	DC51147
MCPA	ND (4.20)	---	8151A	---	1	03/14/25 9:02	D5C0281	DC51147
MCPP	ND (4.25)	---	8151A	---	1	03/14/25 9:02	D5C0281	DC51147

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: DCAA</i>	72 %		30-150
<i>Surrogate: DCAA [2C]</i>	66 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-8
Date Sampled: 03/05/25 09:15
Percent Solids: 54
Initial Volume: 19.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-08
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: JDN
Prepared: 3/7/25 22:15

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons (C9-C36)	ND (19.2)	---	8100M	---	1	03/10/25 21:05	---	DC50744
<i>Surrogate: O-Terphenyl</i>		<i>%Recovery</i> 72 %	<i>Qualifier</i>	<i>Limits</i> 40-140				

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-8
Date Sampled: 03/05/25 09:15
Percent Solids: 54

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-08
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 63 (5)	---	9050A	---	1	JLK	03/07/25 21:26	umhos/cm	DC50736
Corrosivity (pH)	5.85 (N/A)	---	9045	---	1	CCP	03/07/25 20:17	S.U.	DC50725
Corrosivity (pH) Sample Temp	19.1	---	2550B	---	1	CCP	03/07/25 20:17	°C	DC50725
Flashpoint	> 200 (N/A)	---	1010A	---	1	CCP	03/10/25 15:30	°F	DC51036
Percent Moisture	46 (1)	---	2540G	---	1	CCP	03/07/25 20:00	%	DC50727
Reactive Cyanide	ND (2.0)	---	7.3.3.2	---	1	EAM	03/10/25 16:29	mg/kg	DC51035
Reactive Sulfide	ND (2.0)	---	7.3.4.1	---	1	EAM	03/10/25 16:29	mg/kg	DC51035
Total Organic Carbon (Average)	78500 (500)	---	LK	---	1	CCP	03/20/25 15:55	mg/kg	[CALC]

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
 Client Project ID: Lily Pond - 401WQ
 Client Sample ID: 2025-SS-8
 Date Sampled: 03/05/25 09:15

ESS Laboratory Work Order: 25C0241
 ESS Laboratory Sample ID: 25C0241-08
 Sample Matrix: Sediment

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)	---		---				%	
Water Content	See Attached (N/A)	---		---				%	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-8
Date Sampled: 03/05/25 09:15
Percent Solids: 54
Initial Volume: 29.9g
Final Volume: 2ml
Extraction Method: 3540C

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-08
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: JLG
Prepared: 3/11/25 10:28

8082 Polychlorinated Biphenyls (PCB) / Congeners

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
BZ#8	ND (0.00050)	---	8082A Cong	---	1	03/12/25 20:18	D5C0244	DC51104
BZ#18	ND (0.00050)	---	8082A Cong	---	1	03/12/25 20:18	D5C0244	DC51104
BZ#28	ND (0.00050)	---	8082A Cong	---	1	03/12/25 20:18	D5C0244	DC51104
BZ#44	ND (0.00050)	---	8082A Cong	---	1	03/12/25 20:18	D5C0244	DC51104
BZ#52	ND (0.00050)	---	8082A Cong	---	1	03/12/25 20:18	D5C0244	DC51104
BZ#66	ND (0.00050)	---	8082A Cong	---	1	03/12/25 20:18	D5C0244	DC51104
BZ#101	ND (0.00050)	---	8082A Cong	---	1	03/12/25 20:18	D5C0244	DC51104
BZ#105	ND (0.00050)	---	8082A Cong	---	1	03/12/25 20:18	D5C0244	DC51104
BZ#118	ND (0.00050)	---	8082A Cong	---	1	03/12/25 20:18	D5C0244	DC51104
BZ#128	ND (0.00050)	---	8082A Cong	---	1	03/12/25 20:18	D5C0244	DC51104
BZ#138	ND (0.00050)	---	8082A Cong	---	1	03/12/25 20:18	D5C0244	DC51104
BZ#153 [2C]	ND (0.00050)	---	8082A Cong	---	1	03/12/25 20:18	D5C0244	DC51104
BZ#170	ND (0.00050)	---	8082A Cong	---	1	03/12/25 20:18	D5C0244	DC51104
BZ#180	ND (0.00050)	---	8082A Cong	---	1	03/12/25 20:18	D5C0244	DC51104
BZ#187	ND (0.00050)	---	8082A Cong	---	1	03/12/25 20:18	D5C0244	DC51104
BZ#195	ND (0.00050)	---	8082A Cong	---	1	03/12/25 20:18	D5C0244	DC51104
BZ#206	ND (0.00050)	---	8082A Cong	---	1	03/12/25 20:18	D5C0244	DC51104
BZ#209	ND (0.00050)	---	8082A Cong	---	1	03/12/25 20:18	D5C0244	DC51104

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	44 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	41 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-9
Date Sampled: 03/05/25 09:50
Percent Solids: 75

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-09
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Arsenic	2.59 (1.31)	---	6010D	---	1	CEV	03/10/25 19:04	5.1 100	DC51007
Barium	19.9 (0.52)	---	6010D	---	1	CEV	03/10/25 19:04	5.1 100	DC51007
Cadmium	ND (0.26)	---	6010D	---	1	CEV	03/10/25 19:04	5.1 100	DC51007
Chromium	14.3 (0.52)	---	6010D	---	1	CEV	03/10/25 19:04	5.1 100	DC51007
Lead	21.6 (2.61)	---	6010D	---	1	CEV	03/10/25 19:04	5.1 100	DC51007
Mercury	0.065 (0.012)	---	7471B	---	1	BJV	03/11/25 14:09	2.26 40	DC51008
Selenium	ND (2.61)	---	6010D	---	1	CEV	03/10/25 19:04	5.1 100	DC51007
Silver	ND (0.26)	---	6010D	---	1	CEV	03/10/25 19:04	5.1 100	DC51007

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-9
Date Sampled: 03/05/25 09:50
Percent Solids: 75
Initial Volume: 20g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-09
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.033)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
1,2,4-Trichlorobenzene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
1,2-Dichlorobenzene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
1,3-Dichlorobenzene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
1,4-Dichlorobenzene	ND (0.167)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
2,4,5-Trichlorophenol	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
2,4,6-Trichlorophenol	ND (0.167)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
2,4-Dichlorophenol	ND (0.167)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
2,4-Dimethylphenol	ND (0.233)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
2,4-Dinitrophenol	ND (0.667)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
2,4-Dinitrotoluene	ND (0.167)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
2,6-Dinitrotoluene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
2-Chloronaphthalene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
2-Chlorophenol	ND (0.167)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
2-Methylnaphthalene	ND (0.167)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
2-Methylphenol	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
2-Nitrophenol	ND (0.667)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
3,3'-Dichlorobenzidine	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
3+4-Methylphenol	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
4-Bromophenyl-phenylether	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
4-Chloroaniline	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
4-Nitrophenol	ND (1.33)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Acenaphthene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Acenaphthylene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Acetophenone	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Aniline	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Anthracene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-9
Date Sampled: 03/05/25 09:50
Percent Solids: 75
Initial Volume: 20g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-09
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Azobenzene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Benzo(a)anthracene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Benzo(a)pyrene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Benzo(b)fluoranthene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Benzo(g,h,i)perylene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Benzo(k)fluoranthene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
bis(2-Chloroethoxy)methane	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
bis(2-Chloroethyl)ether	ND (0.167)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
bis(2-chloroisopropyl)Ether	ND (0.167)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
bis(2-Ethylhexyl)phthalate	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Butylbenzylphthalate	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Chrysene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Dibenzo(a,h)Anthracene	ND (0.167)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Dibenzofuran	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Diethylphthalate	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Dimethylphthalate	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Di-n-butylphthalate	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Di-n-octylphthalate	ND (0.667)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Fluoranthene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Fluorene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Hexachlorobenzene	ND (0.167)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Hexachlorobutadiene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Hexachloroethane	ND (0.167)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Indeno(1,2,3-cd)Pyrene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Isophorone	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Naphthalene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Nitrobenzene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-9
Date Sampled: 03/05/25 09:50
Percent Solids: 75
Initial Volume: 20g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-09
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
N-Nitrosodimethylamine	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Pentachlorophenol	ND (0.667)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Phenanthrene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Phenol	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743
Pyrene	ND (0.333)	---	8270E	---	1	TJ	03/11/25 0:28	D5C0182	DC50743

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	81 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	86 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	78 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	80 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	79 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	65 %		30-130
<i>Surrogate: Phenol-d6</i>	80 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	85 %		30-130

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
 Client Project ID: Lily Pond - 401WQ
 Client Sample ID: 2025-SS-9
 Date Sampled: 03/05/25 09:50
 Percent Solids: 75
 Initial Volume: 25.1g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
 ESS Laboratory Sample ID: 25C0241-09
 Sample Matrix: Sediment
 Units: mg/kg dry

Prepared: 3/10/25 16:33

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (13.3)	---	MADEP-EPH	---	1	JDN	03/11/25 23:14	D5C0216	DC51006
C19-C36 Aliphatics1	ND (13.3)	---	MADEP-EPH	---	1	JDN	03/11/25 23:14	D5C0216	DC51006
C11-C22 Unadjusted Aromatics1	ND (13.3)	---	EPH8270	---	1	DMC	03/11/25 22:20	D5C0203	DC51006
C11-C22 Aromatics1,2	ND (13.5)	---	EPH8270	---		TJ	03/13/25 10:03	---	[CALC]
2-Methylnaphthalene	ND (0.011)	---	EPH8270SIM	---	1	TJ	03/13/25 10:03	D5C0256	DC51006
Acenaphthene	ND (0.011)	---	EPH8270SIM	---	1	TJ	03/13/25 10:03	D5C0256	DC51006
Naphthalene	ND (0.011)	---	EPH8270SIM	---	1	TJ	03/13/25 10:03	D5C0256	DC51006
Phenanthrene	0.050 (0.011)	---	EPH8270SIM	---	1	TJ	03/13/25 10:03	D5C0256	DC51006
Acenaphthylene	ND (0.011)	---	EPH8270SIM	---	1	TJ	03/13/25 10:03	D5C0256	DC51006
Anthracene	ND (0.011)	---	EPH8270SIM	---	1	TJ	03/13/25 10:03	D5C0256	DC51006
Benzo(a)anthracene	0.075 (0.011)	---	EPH8270SIM	---	1	TJ	03/13/25 10:03	D5C0256	DC51006
Benzo(a)pyrene	0.091 (0.011)	---	EPH8270SIM	---	1	TJ	03/13/25 10:03	D5C0256	DC51006
Benzo(b)fluoranthene	0.084 (0.011)	---	EPH8270SIM	---	1	TJ	03/13/25 10:03	D5C0256	DC51006
Benzo(g,h,i)perylene	0.059 (0.011)	---	EPH8270SIM	---	1	TJ	03/13/25 10:03	D5C0256	DC51006
Benzo(k)fluoranthene	0.071 (0.011)	---	EPH8270SIM	---	1	TJ	03/13/25 10:03	D5C0256	DC51006
Chrysene	0.084 (0.011)	---	EPH8270SIM	---	1	TJ	03/13/25 10:03	D5C0256	DC51006
Dibenzo(a,h)Anthracene	0.032 (0.011)	---	EPH8270SIM	---	1	TJ	03/13/25 10:03	D5C0256	DC51006
Fluoranthene	0.149 (0.011)	---	EPH8270SIM	---	1	TJ	03/13/25 10:03	D5C0256	DC51006
Fluorene	ND (0.011)	---	EPH8270SIM	---	1	TJ	03/13/25 10:03	D5C0256	DC51006
Indeno(1,2,3-cd)Pyrene	0.057 (0.011)	---	EPH8270SIM	---	1	TJ	03/13/25 10:03	D5C0256	DC51006
Pyrene	0.140 (0.011)	---	EPH8270SIM	---	1	TJ	03/13/25 10:03	D5C0256	DC51006

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	76 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	90 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	88 %		40-140
<i>Surrogate: O-Terphenyl</i>	74 %		40-140

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-9
Date Sampled: 03/05/25 09:50
Percent Solids: 75
Initial Volume: 20.1g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-09
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: DMC
Prepared: 3/10/25 10:18

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0033)	---	8081B	---	1	03/11/25 21:20	D5C0200	DC51003
4,4'-DDE [2C]	ND (0.0033)	---	8081B	---	1	03/11/25 21:20	D5C0200	DC51003
4,4'-DDT	ND (0.0033)	---	8081B	---	1	03/11/25 21:20	D5C0200	DC51003
Aldrin	ND (0.0033)	---	8081B	---	1	03/11/25 21:20	D5C0200	DC51003
alpha-BHC	ND (0.0033)	---	8081B	---	1	03/11/25 21:20	D5C0200	DC51003
alpha-Chlordane	ND (0.0033)	---	8081B	---	1	03/11/25 21:20	D5C0200	DC51003
beta-BHC	ND (0.0033)	---	8081B	---	1	03/11/25 21:20	D5C0200	DC51003
Chlordane (Total)	ND (0.0265)	---	8081B	---	1	03/11/25 21:20	D5C0200	DC51003
delta-BHC	ND (0.0033)	---	8081B	---	1	03/11/25 21:20	D5C0200	DC51003
Dieldrin	ND (0.0033)	---	8081B	---	1	03/11/25 21:20	D5C0200	DC51003
Endosulfan I [2C]	ND (0.0033)	---	8081B	---	1	03/11/25 21:20	D5C0200	DC51003
Endosulfan II	ND (0.0033)	---	8081B	---	1	03/11/25 21:20	D5C0200	DC51003
Endosulfan Sulfate	ND (0.0033)	---	8081B	---	1	03/11/25 21:20	D5C0200	DC51003
Endrin	ND (0.0033)	---	8081B	---	1	03/11/25 21:20	D5C0200	DC51003
Endrin Ketone	ND (0.0033)	---	8081B	---	1	03/11/25 21:20	D5C0200	DC51003
gamma-BHC (Lindane)	ND (0.0020)	---	8081B	---	1	03/11/25 21:20	D5C0200	DC51003
gamma-Chlordane	ND (0.0033)	---	8081B	---	1	03/11/25 21:20	D5C0200	DC51003
Heptachlor	ND (0.0033)	---	8081B	---	1	03/11/25 21:20	D5C0200	DC51003
Heptachlor Epoxide	ND (0.0033)	---	8081B	---	1	03/11/25 21:20	D5C0200	DC51003
Hexachlorobenzene	ND (0.0033)	---	8081B	---	1	03/11/25 21:20	D5C0200	DC51003
Methoxychlor	ND (0.0033)	---	8081B	---	1	03/11/25 21:20	D5C0200	DC51003

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	62 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	69 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	48 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	44 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-9
Date Sampled: 03/05/25 09:50
Percent Solids: 75
Initial Volume: 10.3g
Final Volume: 4ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-09
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: DMC
Prepared: 3/11/25 18:00

8151A Chlorinated Herbicides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2,4,5-T	ND (0.012)	---	8151A	---	1	03/14/25 9:28	D5C0281	DC51147
2,4,5-TP (Silvex)	ND (0.012)	---	8151A	---	1	03/14/25 9:28	D5C0281	DC51147
2,4-D	ND (0.061)	---	8151A	---	1	03/14/25 9:28	D5C0281	DC51147
2,4-DB	ND (0.061)	---	8151A	---	1	03/14/25 9:28	D5C0281	DC51147
Dalapon	ND (0.059)	---	8151A	---	1	03/14/25 9:28	D5C0281	DC51147
Dicamba	ND (0.012)	---	8151A	---	1	03/14/25 9:28	D5C0281	DC51147
Dichlorprop	ND (0.061)	---	8151A	---	1	03/14/25 9:28	D5C0281	DC51147
MCPA	ND (3.01)	---	8151A	---	1	03/14/25 9:28	D5C0281	DC51147
MCPP	ND (3.04)	---	8151A	---	1	03/14/25 9:28	D5C0281	DC51147

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: DCAA</i>	<i>61 %</i>		<i>30-150</i>
<i>Surrogate: DCAA [2C]</i>	<i>52 %</i>		<i>30-150</i>

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-9
Date Sampled: 03/05/25 09:50
Percent Solids: 75
Initial Volume: 19.6g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-09
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: JDN
Prepared: 3/7/25 22:15

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons (C9-C36)	51.2 (13.6)	---	8100M	---	1	03/10/25 21:36	---	DC50744
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
Surrogate: O-Terphenyl		74 %		40-140				

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-9
Date Sampled: 03/05/25 09:50
Percent Solids: 75

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-09
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 33 (5)	---	9050A	---	1	JLK	03/07/25 21:26	umhos/cm	DC50736
Corrosivity (pH)	6.03 (N/A)	---	9045	---	1	CCP	03/07/25 20:17	S.U.	DC50725
Corrosivity (pH) Sample Temp	19.3	---	2550B	---	1	CCP	03/07/25 20:17	°C	DC50725
Flashpoint	> 200 (N/A)	---	1010A	---	1	CCP	03/10/25 15:30	°F	DC51036
Percent Moisture	25 (1)	---	2540G	---	1	CCP	03/07/25 20:00	%	DC50727
Reactive Cyanide	ND (2.0)	---	7.3.3.2	---	1	EAM	03/10/25 16:29	mg/kg	DC51035
Reactive Sulfide	ND (2.0)	---	7.3.4.1	---	1	EAM	03/10/25 16:29	mg/kg	DC51035
Total Organic Carbon (Average)	14300 (500)	---	LK	---	1	CCP	03/20/25 16:11	mg/kg	[CALC]

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
 Client Project ID: Lily Pond - 401WQ
 Client Sample ID: 2025-SS-9
 Date Sampled: 03/05/25 09:50

ESS Laboratory Work Order: 25C0241
 ESS Laboratory Sample ID: 25C0241-09
 Sample Matrix: Sediment

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)	---		---				%	
Water Content	See Attached (N/A)	---		---				%	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-9
Date Sampled: 03/05/25 09:50
Percent Solids: 75
Initial Volume: 30.4g
Final Volume: 2ml
Extraction Method: 3540C

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-09
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: JLG
Prepared: 3/11/25 10:28

8082 Polychlorinated Biphenyls (PCB) / Congeners

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
BZ#8	ND (0.00036)	---	8082A Cong	---	1	03/12/25 20:48	D5C0244	DC51104
BZ#18	ND (0.00036)	---	8082A Cong	---	1	03/12/25 20:48	D5C0244	DC51104
BZ#28	ND (0.00036)	---	8082A Cong	---	1	03/12/25 20:48	D5C0244	DC51104
BZ#44	ND (0.00036)	---	8082A Cong	---	1	03/12/25 20:48	D5C0244	DC51104
BZ#52	ND (0.00036)	---	8082A Cong	---	1	03/12/25 20:48	D5C0244	DC51104
BZ#66	ND (0.00036)	---	8082A Cong	---	1	03/12/25 20:48	D5C0244	DC51104
BZ#101	ND (0.00036)	---	8082A Cong	---	1	03/12/25 20:48	D5C0244	DC51104
BZ#105	ND (0.00036)	---	8082A Cong	---	1	03/12/25 20:48	D5C0244	DC51104
BZ#118	ND (0.00036)	---	8082A Cong	---	1	03/12/25 20:48	D5C0244	DC51104
BZ#128	ND (0.00036)	---	8082A Cong	---	1	03/12/25 20:48	D5C0244	DC51104
BZ#138	ND (0.00036)	---	8082A Cong	---	1	03/12/25 20:48	D5C0244	DC51104
BZ#153	ND (0.00036)	---	8082A Cong	---	1	03/12/25 20:48	D5C0244	DC51104
BZ#170	ND (0.00036)	---	8082A Cong	---	1	03/12/25 20:48	D5C0244	DC51104
BZ#180	ND (0.00036)	---	8082A Cong	---	1	03/12/25 20:48	D5C0244	DC51104
BZ#187	ND (0.00036)	---	8082A Cong	---	1	03/12/25 20:48	D5C0244	DC51104
BZ#195	ND (0.00036)	---	8082A Cong	---	1	03/12/25 20:48	D5C0244	DC51104
BZ#206	ND (0.00036)	---	8082A Cong	---	1	03/12/25 20:48	D5C0244	DC51104
BZ#209	ND (0.00036)	---	8082A Cong	---	1	03/12/25 20:48	D5C0244	DC51104

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	74 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	70 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-10
Date Sampled: 03/05/25 09:00
Percent Solids: 80

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-10
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Arsenic	2.16 (1.22)	---	6010D	---	1	CEV	03/10/25 19:06	5.11 100	DC51007
Barium	11.4 (0.49)	---	6010D	---	1	CEV	03/10/25 19:06	5.11 100	DC51007
Cadmium	ND (0.24)	---	6010D	---	1	CEV	03/10/25 19:06	5.11 100	DC51007
Chromium	5.63 (0.49)	---	6010D	---	1	CEV	03/10/25 19:06	5.11 100	DC51007
Lead	35.9 (2.45)	---	6010D	---	1	CEV	03/10/25 19:06	5.11 100	DC51007
Mercury	0.054 (0.012)	---	7471B	---	1	BJV	03/11/25 14:11	2.12 40	DC51008
Selenium	ND (2.45)	---	6010D	---	1	CEV	03/10/25 19:06	5.11 100	DC51007
Silver	ND (0.24)	---	6010D	---	1	CEV	03/10/25 19:06	5.11 100	DC51007

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-10
Date Sampled: 03/05/25 09:00
Percent Solids: 80
Initial Volume: 20.6g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-10
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.030)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
1,2,4-Trichlorobenzene	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
1,2-Dichlorobenzene	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
1,3-Dichlorobenzene	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
1,4-Dichlorobenzene	ND (0.152)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
2,4,5-Trichlorophenol	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
2,4,6-Trichlorophenol	ND (0.152)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
2,4-Dichlorophenol	ND (0.152)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
2,4-Dimethylphenol	ND (0.212)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
2,4-Dinitrophenol	ND (0.607)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
2,4-Dinitrotoluene	ND (0.152)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
2,6-Dinitrotoluene	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
2-Chloronaphthalene	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
2-Chlorophenol	ND (0.152)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
2-Methylnaphthalene	ND (0.152)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
2-Methylphenol	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
2-Nitrophenol	ND (0.607)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
3,3'-Dichlorobenzidine	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
3+4-Methylphenol	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
4-Bromophenyl-phenylether	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
4-Chloroaniline	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
4-Nitrophenol	ND (1.21)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Acenaphthene	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Acenaphthylene	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Acetophenone	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Aniline	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Anthracene	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-10
Date Sampled: 03/05/25 09:00
Percent Solids: 80
Initial Volume: 20.6g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-10
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Azobenzene	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Benzo(a)anthracene	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Benzo(a)pyrene	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Benzo(b)fluoranthene	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Benzo(g,h,i)perylene	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Benzo(k)fluoranthene	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
bis(2-Chloroethoxy)methane	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
bis(2-Chloroethyl)ether	ND (0.152)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
bis(2-chloroisopropyl)Ether	ND (0.152)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
bis(2-Ethylhexyl)phthalate	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Butylbenzylphthalate	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Chrysene	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Dibenzo(a,h)Anthracene	ND (0.152)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Dibenzofuran	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Diethylphthalate	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Dimethylphthalate	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Di-n-butylphthalate	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Di-n-octylphthalate	ND (0.607)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Fluoranthene	0.392 (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Fluorene	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Hexachlorobenzene	ND (0.152)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Hexachlorobutadiene	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Hexachloroethane	ND (0.152)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Indeno(1,2,3-cd)Pyrene	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Isophorone	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Naphthalene	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Nitrobenzene	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-10
Date Sampled: 03/05/25 09:00
Percent Solids: 80
Initial Volume: 20.6g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-10
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
N-Nitrosodimethylamine	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Pentachlorophenol	ND (0.607)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Phenanthrene	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Phenol	ND (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743
Pyrene	0.304 (0.303)	---	8270E	---	1	TJ	03/11/25 0:59	D5C0182	DC50743

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	91 %		30-130
Surrogate: 2,4,6-Tribromophenol	105 %		30-130
Surrogate: 2-Chlorophenol-d4	89 %		30-130
Surrogate: 2-Fluorobiphenyl	89 %		30-130
Surrogate: 2-Fluorophenol	88 %		30-130
Surrogate: Nitrobenzene-d5	82 %		30-130
Surrogate: Phenol-d6	88 %		30-130
Surrogate: p-Terphenyl-d14	96 %		30-130

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
 Client Project ID: Lily Pond - 401WQ
 Client Sample ID: 2025-SS-10
 Date Sampled: 03/05/25 09:00
 Percent Solids: 80
 Initial Volume: 25.2g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
 ESS Laboratory Sample ID: 25C0241-10
 Sample Matrix: Sediment
 Units: mg/kg dry

Prepared: 3/10/25 16:33

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (12.4)	---	MADEP-EPH	---	1	JDN	03/11/25 23:49	D5C0216	DC51006
C19-C36 Aliphatics1	ND (12.4)	---	MADEP-EPH	---	1	JDN	03/11/25 23:49	D5C0216	DC51006
C11-C22 Unadjusted Aromatics1	ND (12.4)	---	EPH8270	---	1	DMC	03/11/25 22:57	D5C0203	DC51006
C11-C22 Aromatics1,2	ND (12.6)	---	EPH8270	---		TJ	03/13/25 10:33	---	[CALC]
2-Methylnaphthalene	0.014 (0.010)	---	EPH8270SIM	---	1	TJ	03/13/25 10:33	D5C0256	DC51006
Acenaphthene	ND (0.010)	---	EPH8270SIM	---	1	TJ	03/13/25 10:33	D5C0256	DC51006
Naphthalene	0.115 (0.010)	---	EPH8270SIM	---	1	TJ	03/13/25 10:33	D5C0256	DC51006
Phenanthrene	0.173 (0.010)	---	EPH8270SIM	---	1	TJ	03/13/25 10:33	D5C0256	DC51006
Acenaphthylene	0.019 (0.010)	---	EPH8270SIM	---	1	TJ	03/13/25 10:33	D5C0256	DC51006
Anthracene	0.029 (0.010)	---	EPH8270SIM	---	1	TJ	03/13/25 10:33	D5C0256	DC51006
Benzo(a)anthracene	0.235 (0.010)	---	EPH8270SIM	---	1	TJ	03/13/25 10:33	D5C0256	DC51006
Benzo(a)pyrene	0.238 (0.010)	---	EPH8270SIM	---	1	TJ	03/13/25 10:33	D5C0256	DC51006
Benzo(b)fluoranthene	0.201 (0.010)	---	EPH8270SIM	---	1	TJ	03/13/25 10:33	D5C0256	DC51006
Benzo(g,h,i)perylene	0.146 (0.010)	---	EPH8270SIM	---	1	TJ	03/13/25 10:33	D5C0256	DC51006
Benzo(k)fluoranthene	0.194 (0.010)	---	EPH8270SIM	---	1	TJ	03/13/25 10:33	D5C0256	DC51006
Chrysene	0.238 (0.010)	---	EPH8270SIM	---	1	TJ	03/13/25 10:33	D5C0256	DC51006
Dibenzo(a,h)Anthracene	0.075 (0.010)	---	EPH8270SIM	---	1	TJ	03/13/25 10:33	D5C0256	DC51006
Fluoranthene	0.450 (0.010)	---	EPH8270SIM	---	1	TJ	03/13/25 10:33	D5C0256	DC51006
Fluorene	ND (0.010)	---	EPH8270SIM	---	1	TJ	03/13/25 10:33	D5C0256	DC51006
Indeno(1,2,3-cd)Pyrene	0.137 (0.010)	---	EPH8270SIM	---	1	TJ	03/13/25 10:33	D5C0256	DC51006
Pyrene	0.409 (0.010)	---	EPH8270SIM	---	1	TJ	03/13/25 10:33	D5C0256	DC51006

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	55 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	102 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	99 %		40-140
<i>Surrogate: O-Terphenyl</i>	66 %		40-140

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-10
Date Sampled: 03/05/25 09:00
Percent Solids: 80
Initial Volume: 20.5g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-10
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: DMC
Prepared: 3/10/25 10:18

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD [2C]	ND (0.0030)	---	8081B	---	1	03/11/25 21:48	D5C0200	DC51003
4,4'-DDE	ND (0.0030)	---	8081B	---	1	03/11/25 21:48	D5C0200	DC51003
4,4'-DDT [2C]	ND (0.0030)	---	8081B	---	1	03/11/25 21:48	D5C0200	DC51003
Aldrin	ND (0.0030)	---	8081B	---	1	03/11/25 21:48	D5C0200	DC51003
alpha-BHC	ND (0.0030)	---	8081B	---	1	03/11/25 21:48	D5C0200	DC51003
alpha-Chlordane	ND (0.0030)	---	8081B	---	1	03/11/25 21:48	D5C0200	DC51003
beta-BHC	ND (0.0030)	---	8081B	---	1	03/11/25 21:48	D5C0200	DC51003
Chlordane (Total)	ND (0.0244)	---	8081B	---	1	03/11/25 21:48	D5C0200	DC51003
delta-BHC	ND (0.0030)	---	8081B	---	1	03/11/25 21:48	D5C0200	DC51003
Dieldrin	ND (0.0030)	---	8081B	---	1	03/11/25 21:48	D5C0200	DC51003
Endosulfan I	ND (0.0030)	---	8081B	---	1	03/11/25 21:48	D5C0200	DC51003
Endosulfan II	ND (0.0030)	---	8081B	---	1	03/11/25 21:48	D5C0200	DC51003
Endosulfan Sulfate	ND (0.0030)	---	8081B	---	1	03/11/25 21:48	D5C0200	DC51003
Endrin	ND (0.0030)	---	8081B	---	1	03/11/25 21:48	D5C0200	DC51003
Endrin Ketone	ND (0.0030)	---	8081B	---	1	03/11/25 21:48	D5C0200	DC51003
gamma-BHC (Lindane)	ND (0.0018)	---	8081B	---	1	03/11/25 21:48	D5C0200	DC51003
gamma-Chlordane	ND (0.0030)	---	8081B	---	1	03/11/25 21:48	D5C0200	DC51003
Heptachlor	ND (0.0030)	---	8081B	---	1	03/11/25 21:48	D5C0200	DC51003
Heptachlor Epoxide	ND (0.0030)	---	8081B	---	1	03/11/25 21:48	D5C0200	DC51003
Hexachlorobenzene	ND (0.0030)	---	8081B	---	1	03/11/25 21:48	D5C0200	DC51003
Methoxychlor	ND (0.0030)	---	8081B	---	1	03/11/25 21:48	D5C0200	DC51003

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	56 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	61 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	46 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	44 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-10
Date Sampled: 03/05/25 09:00
Percent Solids: 80
Initial Volume: 10.2g
Final Volume: 4ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-10
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: DMC
Prepared: 3/11/25 18:00

8151A Chlorinated Herbicides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2,4,5-T	ND (0.012)	---	8151A	---	1	03/14/25 9:54	D5C0281	DC51147
2,4,5-TP (Silvex)	ND (0.012)	---	8151A	---	1	03/14/25 9:54	D5C0281	DC51147
2,4-D	ND (0.058)	---	8151A	---	1	03/14/25 9:54	D5C0281	DC51147
2,4-DB	ND (0.058)	---	8151A	---	1	03/14/25 9:54	D5C0281	DC51147
Dalapon	ND (0.056)	---	8151A	---	1	03/14/25 9:54	D5C0281	DC51147
Dicamba	ND (0.012)	---	8151A	---	1	03/14/25 9:54	D5C0281	DC51147
Dichlorprop	ND (0.058)	---	8151A	---	1	03/14/25 9:54	D5C0281	DC51147
MCPA	ND (2.85)	---	8151A	---	1	03/14/25 9:54	D5C0281	DC51147
MCPP	ND (2.88)	---	8151A	---	1	03/14/25 9:54	D5C0281	DC51147

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: DCAA</i>	90 %		30-150
<i>Surrogate: DCAA [2C]</i>	77 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-10
Date Sampled: 03/05/25 09:00
Percent Solids: 80
Initial Volume: 19.5g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-10
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: JDN
Prepared: 3/7/25 22:15

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons (C9-C36)	ND (12.8)	---	8100M	---	1	03/10/25 22:07	---	DC50744
<i>Surrogate: O-Terphenyl</i>		<i>%Recovery</i> 79 %	<i>Qualifier</i>	<i>Limits</i> 40-140				

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-10
Date Sampled: 03/05/25 09:00
Percent Solids: 80

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-10
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 44 (5)	---	9050A	---	1	JLK	03/07/25 21:26	umhos/cm	DC50736
Corrosivity (pH)	5.73 (N/A)	---	9045	---	1	CCP	03/07/25 20:17	S.U.	DC50725
Corrosivity (pH) Sample Temp	19.5	---	2550B	---	1	CCP	03/07/25 20:17	°C	DC50725
Flashpoint	> 200 (N/A)	---	1010A	---	1	CCP	03/10/25 15:30	°F	DC51036
Percent Moisture	20 (1)	---	2540G	---	1	CCP	03/07/25 20:00	%	DC50727
Reactive Cyanide	ND (2.0)	---	7.3.3.2	---	1	EAM	03/10/25 16:29	mg/kg	DC51035
Reactive Sulfide	ND (2.0)	---	7.3.4.1	---	1	EAM	03/10/25 16:29	mg/kg	DC51035
Total Organic Carbon (Average)	17900 (500)	---	LK	---	1	CCP	03/20/25 16:28	mg/kg	[CALC]

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
 Client Project ID: Lily Pond - 401WQ
 Client Sample ID: 2025-SS-10
 Date Sampled: 03/05/25 09:00

ESS Laboratory Work Order: 25C0241
 ESS Laboratory Sample ID: 25C0241-10
 Sample Matrix: Sediment

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)	---		---				%	
Water Content	See Attached (N/A)	---		---				%	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-10
Date Sampled: 03/05/25 09:00
Percent Solids: 80
Initial Volume: 29.6g
Final Volume: 2ml
Extraction Method: 3540C

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-10
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: JLG
Prepared: 3/11/25 10:28

8082 Polychlorinated Biphenyls (PCB) / Congeners

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
BZ#8	ND (0.00034)	---	8082A Cong	---	1	03/12/25 21:19	D5C0244	DC51104
BZ#18	ND (0.00034)	---	8082A Cong	---	1	03/12/25 21:19	D5C0244	DC51104
BZ#28	ND (0.00034)	---	8082A Cong	---	1	03/12/25 21:19	D5C0244	DC51104
BZ#44	ND (0.00034)	---	8082A Cong	---	1	03/12/25 21:19	D5C0244	DC51104
BZ#52	ND (0.00034)	---	8082A Cong	---	1	03/12/25 21:19	D5C0244	DC51104
BZ#66	ND (0.00034)	---	8082A Cong	---	1	03/12/25 21:19	D5C0244	DC51104
BZ#101	ND (0.00034)	---	8082A Cong	---	1	03/12/25 21:19	D5C0244	DC51104
BZ#105	ND (0.00034)	---	8082A Cong	---	1	03/12/25 21:19	D5C0244	DC51104
BZ#118	ND (0.00034)	---	8082A Cong	---	1	03/12/25 21:19	D5C0244	DC51104
BZ#128	ND (0.00034)	---	8082A Cong	---	1	03/12/25 21:19	D5C0244	DC51104
BZ#138	ND (0.00034)	---	8082A Cong	---	1	03/12/25 21:19	D5C0244	DC51104
BZ#153	ND (0.00034)	---	8082A Cong	---	1	03/12/25 21:19	D5C0244	DC51104
BZ#170	ND (0.00034)	---	8082A Cong	---	1	03/12/25 21:19	D5C0244	DC51104
BZ#180	ND (0.00034)	---	8082A Cong	---	1	03/12/25 21:19	D5C0244	DC51104
BZ#187	ND (0.00034)	---	8082A Cong	---	1	03/12/25 21:19	D5C0244	DC51104
BZ#195	ND (0.00034)	---	8082A Cong	---	1	03/12/25 21:19	D5C0244	DC51104
BZ#206	ND (0.00034)	---	8082A Cong	---	1	03/12/25 21:19	D5C0244	DC51104
BZ#209	ND (0.00034)	---	8082A Cong	---	1	03/12/25 21:19	D5C0244	DC51104

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	77 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	74 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-1A
Date Sampled: 03/05/25 13:20
Percent Solids: 37
Initial Volume: 5.2g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-11
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
1,1,1-Trichloroethane	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
1,1,2,2-Tetrachloroethane	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
1,1,2-Trichloroethane	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
1,1-Dichloroethane	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
1,1-Dichloroethene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
1,1-Dichloropropene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
1,2,3-Trichlorobenzene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
1,2,3-Trichloropropane	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
1,2,4-Trichlorobenzene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
1,2,4-Trimethylbenzene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
1,2-Dibromo-3-Chloropropane	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
1,2-Dibromoethane	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
1,2-Dichlorobenzene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
1,2-Dichloroethane	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
1,2-Dichloropropane	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
1,3,5-Trimethylbenzene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
1,3-Dichlorobenzene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
1,3-Dichloropropane	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
1,4-Dichlorobenzene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
1,4-Dioxane	ND (0.262)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
2,2-Dichloropropane	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
2-Butanone	ND (0.131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
2-Chlorotoluene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
2-Hexanone	ND (0.131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
4-Chlorotoluene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
4-Isopropyltoluene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-1A
Date Sampled: 03/05/25 13:20
Percent Solids: 37
Initial Volume: 5.2g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-11
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4-Methyl-2-Pentanone	ND (0.131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Acetone	ND (0.131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Benzene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Bromobenzene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Bromochloromethane	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Bromodichloromethane	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Bromoform	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Bromomethane	ND (0.0262)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Carbon Disulfide	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Carbon Tetrachloride	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Chlorobenzene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Chloroethane	ND (0.0262)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Chloroform	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Chloromethane	ND (0.0262)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
cis-1,2-Dichloroethene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
cis-1,3-Dichloropropene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Dibromochloromethane	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Dibromomethane	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Dichlorodifluoromethane	ND (0.0262)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Diethyl Ether	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Di-isopropyl ether	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Ethyl tertiary-butyl ether	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Ethylbenzene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Hexachlorobutadiene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Isopropylbenzene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Methyl tert-Butyl Ether	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Methylene Chloride	ND (0.0654)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-1A
Date Sampled: 03/05/25 13:20
Percent Solids: 37
Initial Volume: 5.2g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-11
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
Naphthalene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
n-Butylbenzene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
n-Propylbenzene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
sec-Butylbenzene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Styrene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
tert-Butylbenzene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Tertiary-amyl methyl ether	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Tetrachloroethene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Tetrahydrofuran	ND (0.0523)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Toluene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
trans-1,2-Dichloroethene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
trans-1,3-Dichloropropene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Trichloroethene	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Trichlorofluoromethane	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Vinyl Chloride	ND (0.0262)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Xylene O	ND (0.0131)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Xylene P,M	ND (0.0262)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032
Xylenes (Total)	ND (0.0262)	---	8260D Low	---	1	MEK	03/10/25 12:32	D5C0185	DC51032

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	98 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	93 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	95 %		70-130
<i>Surrogate: Toluene-d8</i>	102 %		70-130

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-2C
Date Sampled: 03/05/25 11:15
Percent Solids: 41
Initial Volume: 5.2g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-12
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
1,1,1-Trichloroethane	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
1,1,2,2-Tetrachloroethane	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
1,1,2-Trichloroethane	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
1,1-Dichloroethane	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
1,1-Dichloroethene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
1,1-Dichloropropene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
1,2,3-Trichlorobenzene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
1,2,3-Trichloropropane	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
1,2,4-Trichlorobenzene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
1,2,4-Trimethylbenzene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
1,2-Dibromo-3-Chloropropane	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
1,2-Dibromoethane	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
1,2-Dichlorobenzene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
1,2-Dichloroethane	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
1,2-Dichloropropane	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
1,3,5-Trimethylbenzene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
1,3-Dichlorobenzene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
1,3-Dichloropropane	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
1,4-Dichlorobenzene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
1,4-Dioxane	ND (0.236)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
2,2-Dichloropropane	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
2-Butanone	ND (0.118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
2-Chlorotoluene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
2-Hexanone	ND (0.118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
4-Chlorotoluene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
4-Isopropyltoluene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-2C
Date Sampled: 03/05/25 11:15
Percent Solids: 41
Initial Volume: 5.2g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-12
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4-Methyl-2-Pentanone	ND (0.118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Acetone	0.352 (0.118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Benzene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Bromobenzene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Bromochloromethane	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Bromodichloromethane	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Bromoform	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Bromomethane	ND (0.0236)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Carbon Disulfide	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Carbon Tetrachloride	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Chlorobenzene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Chloroethane	ND (0.0236)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Chloroform	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Chloromethane	ND (0.0236)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
cis-1,2-Dichloroethene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
cis-1,3-Dichloropropene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Dibromochloromethane	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Dibromomethane	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Dichlorodifluoromethane	ND (0.0236)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Diethyl Ether	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Di-isopropyl ether	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Ethyl tertiary-butyl ether	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Ethylbenzene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Hexachlorobutadiene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Isopropylbenzene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Methyl tert-Butyl Ether	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Methylene Chloride	ND (0.0591)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-2C
Date Sampled: 03/05/25 11:15
Percent Solids: 41
Initial Volume: 5.2g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-12
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Naphthalene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
n-Butylbenzene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
n-Propylbenzene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
sec-Butylbenzene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Styrene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
tert-Butylbenzene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Tertiary-amyl methyl ether	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Tetrachloroethene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Tetrahydrofuran	ND (0.0473)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Toluene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
trans-1,2-Dichloroethene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
trans-1,3-Dichloropropene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Trichloroethene	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Trichlorofluoromethane	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Vinyl Chloride	ND (0.0236)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Xylene O	ND (0.0118)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Xylene P,M	ND (0.0236)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032
Xylenes (Total)	ND (0.0236)	---	8260D Low	---	1	MEK	03/10/25 12:58	D5C0185	DC51032

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>101 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>85 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>97 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>110 %</i>		<i>70-130</i>

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-3A
Date Sampled: 03/05/25 10:45
Percent Solids: 41
Initial Volume: 3.2g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-13
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
1,1,1-Trichloroethane	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
1,1,2,2-Tetrachloroethane	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
1,1,2-Trichloroethane	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
1,1-Dichloroethane	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
1,1-Dichloroethene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
1,1-Dichloropropene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
1,2,3-Trichlorobenzene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
1,2,3-Trichloropropane	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
1,2,4-Trichlorobenzene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
1,2,4-Trimethylbenzene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
1,2-Dibromo-3-Chloropropane	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
1,2-Dibromoethane	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
1,2-Dichlorobenzene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
1,2-Dichloroethane	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
1,2-Dichloropropane	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
1,3,5-Trimethylbenzene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
1,3-Dichlorobenzene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
1,3-Dichloropropane	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
1,4-Dichlorobenzene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
1,4-Dioxane	ND (0.382)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
2,2-Dichloropropane	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
2-Butanone	ND (0.191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
2-Chlorotoluene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
2-Hexanone	ND (0.191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
4-Chlorotoluene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
4-Isopropyltoluene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-3A
Date Sampled: 03/05/25 10:45
Percent Solids: 41
Initial Volume: 3.2g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-13
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4-Methyl-2-Pentanone	ND (0.191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Acetone	0.327 (0.191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Benzene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Bromobenzene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Bromochloromethane	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Bromodichloromethane	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Bromoform	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Bromomethane	ND (0.0382)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Carbon Disulfide	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Carbon Tetrachloride	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Chlorobenzene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Chloroethane	ND (0.0382)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Chloroform	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Chloromethane	ND (0.0382)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
cis-1,2-Dichloroethene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
cis-1,3-Dichloropropene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Dibromochloromethane	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Dibromomethane	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Dichlorodifluoromethane	ND (0.0382)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Diethyl Ether	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Di-isopropyl ether	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Ethyl tertiary-butyl ether	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Ethylbenzene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Hexachlorobutadiene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Isopropylbenzene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Methyl tert-Butyl Ether	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Methylene Chloride	ND (0.0956)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-3A
Date Sampled: 03/05/25 10:45
Percent Solids: 41
Initial Volume: 3.2g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-13
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Naphthalene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
n-Butylbenzene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
n-Propylbenzene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
sec-Butylbenzene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Styrene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
tert-Butylbenzene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Tertiary-amyl methyl ether	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Tetrachloroethene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Tetrahydrofuran	ND (0.0765)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Toluene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
trans-1,2-Dichloroethene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
trans-1,3-Dichloropropene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Trichloroethene	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Trichlorofluoromethane	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Vinyl Chloride	ND (0.0382)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Xylene O	ND (0.0191)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Xylene P,M	ND (0.0382)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032
Xylenes (Total)	ND (0.0382)	---	8260D Low	---	1	MEK	03/10/25 13:23	D5C0185	DC51032

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	99 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	85 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	97 %		70-130
<i>Surrogate: Toluene-d8</i>	110 %		70-130

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-4B
Date Sampled: 03/05/25 12:00
Percent Solids: 54
Initial Volume: 4g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-14
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
1,1,1-Trichloroethane	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
1,1,2,2-Tetrachloroethane	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
1,1,2-Trichloroethane	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
1,1-Dichloroethane	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
1,1-Dichloroethene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
1,1-Dichloropropene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
1,2,3-Trichlorobenzene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
1,2,3-Trichloropropane	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
1,2,4-Trichlorobenzene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
1,2,4-Trimethylbenzene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
1,2-Dibromo-3-Chloropropane	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
1,2-Dibromoethane	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
1,2-Dichlorobenzene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
1,2-Dichloroethane	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
1,2-Dichloropropane	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
1,3,5-Trimethylbenzene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
1,3-Dichlorobenzene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
1,3-Dichloropropane	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
1,4-Dichlorobenzene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
1,4-Dioxane	ND (0.233)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
2,2-Dichloropropane	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
2-Butanone	ND (0.116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
2-Chlorotoluene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
2-Hexanone	ND (0.116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
4-Chlorotoluene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
4-Isopropyltoluene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-4B
Date Sampled: 03/05/25 12:00
Percent Solids: 54
Initial Volume: 4g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-14
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4-Methyl-2-Pentanone	ND (0.116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Acetone	0.371 (0.116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Benzene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Bromobenzene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Bromochloromethane	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Bromodichloromethane	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Bromoform	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Bromomethane	ND (0.0233)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Carbon Disulfide	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Carbon Tetrachloride	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Chlorobenzene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Chloroethane	ND (0.0233)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Chloroform	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Chloromethane	ND (0.0233)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
cis-1,2-Dichloroethene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
cis-1,3-Dichloropropene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Dibromochloromethane	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Dibromomethane	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Dichlorodifluoromethane	ND (0.0233)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Diethyl Ether	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Di-isopropyl ether	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Ethyl tertiary-butyl ether	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Ethylbenzene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Hexachlorobutadiene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Isopropylbenzene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Methyl tert-Butyl Ether	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Methylene Chloride	ND (0.0582)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-4B
Date Sampled: 03/05/25 12:00
Percent Solids: 54
Initial Volume: 4g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-14
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
Naphthalene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
n-Butylbenzene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
n-Propylbenzene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
sec-Butylbenzene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Styrene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
tert-Butylbenzene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Tertiary-amyl methyl ether	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Tetrachloroethene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Tetrahydrofuran	ND (0.0466)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Toluene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
trans-1,2-Dichloroethene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
trans-1,3-Dichloropropene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Trichloroethene	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Trichlorofluoromethane	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Vinyl Chloride	ND (0.0233)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Xylene O	ND (0.0116)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Xylene P,M	ND (0.0233)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032
Xylenes (Total)	ND (0.0233)	---	8260D Low	---	1	MEK	03/10/25 13:49	D5C0185	DC51032

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>100 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>83 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>98 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>113 %</i>		<i>70-130</i>

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-5C
Date Sampled: 03/05/25 13:15
Percent Solids: 68
Initial Volume: 5.6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-15
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/11/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
1,1,1-Trichloroethane	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
1,1,2,2-Tetrachloroethane	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
1,1,2-Trichloroethane	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
1,1-Dichloroethane	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
1,1-Dichloroethene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
1,1-Dichloropropene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
1,2,3-Trichlorobenzene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
1,2,3-Trichloropropane	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
1,2,4-Trichlorobenzene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
1,2,4-Trimethylbenzene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
1,2-Dibromo-3-Chloropropane	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
1,2-Dibromoethane	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
1,2-Dichlorobenzene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
1,2-Dichloroethane	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
1,2-Dichloropropane	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
1,3,5-Trimethylbenzene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
1,3-Dichlorobenzene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
1,3-Dichloropropane	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
1,4-Dichlorobenzene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
1,4-Dioxane	ND (0.132)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
2,2-Dichloropropane	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
2-Butanone	ND (0.0659)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
2-Chlorotoluene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
2-Hexanone	ND (0.0659)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
4-Chlorotoluene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
4-Isopropyltoluene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-5C
Date Sampled: 03/05/25 13:15
Percent Solids: 68
Initial Volume: 5.6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-15
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/11/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4-Methyl-2-Pentanone	ND (0.0659)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Acetone	ND (0.0659)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Benzene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Bromobenzene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Bromochloromethane	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Bromodichloromethane	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Bromoform	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Bromomethane	ND (0.0132)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Carbon Disulfide	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Carbon Tetrachloride	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Chlorobenzene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Chloroethane	ND (0.0132)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Chloroform	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Chloromethane	ND (0.0132)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
cis-1,2-Dichloroethene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
cis-1,3-Dichloropropene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Dibromochloromethane	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Dibromomethane	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Dichlorodifluoromethane	ND (0.0132)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Diethyl Ether	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Di-isopropyl ether	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Ethyl tertiary-butyl ether	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Ethylbenzene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Hexachlorobutadiene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Isopropylbenzene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Methyl tert-Butyl Ether	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Methylene Chloride	ND (0.0329)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-5C
Date Sampled: 03/05/25 13:15
Percent Solids: 68
Initial Volume: 5.6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-15
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/11/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Naphthalene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
n-Butylbenzene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
n-Propylbenzene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
sec-Butylbenzene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Styrene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
tert-Butylbenzene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Tertiary-amyl methyl ether	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Tetrachloroethene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Tetrahydrofuran	ND (0.0264)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Toluene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
trans-1,2-Dichloroethene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
trans-1,3-Dichloropropene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Trichloroethene	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Trichlorofluoromethane	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Vinyl Chloride	ND (0.0132)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Xylene O	ND (0.0066)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Xylene P,M	ND (0.0132)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123
Xylenes (Total)	ND (0.0132)	---	8260D Low	---	1	MEK	03/11/25 14:20	D5C0208	DC51123

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>109 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>86 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>102 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>110 %</i>		<i>70-130</i>

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-6A
Date Sampled: 03/05/25 12:30
Percent Solids: 57
Initial Volume: 3.6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-16
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
1,1,1-Trichloroethane	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
1,1,2,2-Tetrachloroethane	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
1,1,2-Trichloroethane	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
1,1-Dichloroethane	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
1,1-Dichloroethene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
1,1-Dichloropropene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
1,2,3-Trichlorobenzene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
1,2,3-Trichloropropane	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
1,2,4-Trichlorobenzene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
1,2,4-Trimethylbenzene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
1,2-Dibromo-3-Chloropropane	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
1,2-Dibromoethane	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
1,2-Dichlorobenzene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
1,2-Dichloroethane	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
1,2-Dichloropropane	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
1,3,5-Trimethylbenzene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
1,3-Dichlorobenzene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
1,3-Dichloropropane	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
1,4-Dichlorobenzene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
1,4-Dioxane	ND (0.246)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
2,2-Dichloropropane	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
2-Butanone	0.279 (0.123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
2-Chlorotoluene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
2-Hexanone	ND (0.123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
4-Chlorotoluene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
4-Isopropyltoluene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-6A
Date Sampled: 03/05/25 12:30
Percent Solids: 57
Initial Volume: 3.6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-16
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4-Methyl-2-Pentanone	ND (0.123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Acetone	0.368 (0.123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Benzene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Bromobenzene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Bromochloromethane	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Bromodichloromethane	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Bromoform	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Bromomethane	ND (0.0246)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Carbon Disulfide	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Carbon Tetrachloride	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Chlorobenzene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Chloroethane	ND (0.0246)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Chloroform	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Chloromethane	ND (0.0246)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
cis-1,2-Dichloroethene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
cis-1,3-Dichloropropene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Dibromochloromethane	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Dibromomethane	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Dichlorodifluoromethane	ND (0.0246)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Diethyl Ether	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Di-isopropyl ether	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Ethyl tertiary-butyl ether	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Ethylbenzene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Hexachlorobutadiene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Isopropylbenzene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Methyl tert-Butyl Ether	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Methylene Chloride	ND (0.0614)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-6A
Date Sampled: 03/05/25 12:30
Percent Solids: 57
Initial Volume: 3.6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-16
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Naphthalene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
n-Butylbenzene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
n-Propylbenzene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
sec-Butylbenzene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Styrene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
tert-Butylbenzene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Tertiary-amyl methyl ether	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Tetrachloroethene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Tetrahydrofuran	ND (0.0491)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Toluene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
trans-1,2-Dichloroethene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
trans-1,3-Dichloropropene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Trichloroethene	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Trichlorofluoromethane	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Vinyl Chloride	ND (0.0246)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Xylene O	ND (0.0123)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Xylene P,M	ND (0.0246)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032
Xylenes (Total)	ND (0.0246)	---	8260D Low	---	1	MEK	03/10/25 14:41	D5C0185	DC51032

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>101 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>83 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>98 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>112 %</i>		<i>70-130</i>

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-7B
Date Sampled: 03/05/25 10:30
Percent Solids: 45
Initial Volume: 4g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-17
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
1,1,1-Trichloroethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
1,1,2,2-Tetrachloroethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
1,1,2-Trichloroethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
1,1-Dichloroethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
1,1-Dichloroethene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
1,1-Dichloropropene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
1,2,3-Trichlorobenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
1,2,3-Trichloropropane	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
1,2,4-Trichlorobenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
1,2,4-Trimethylbenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
1,2-Dibromo-3-Chloropropane	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
1,2-Dibromoethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
1,2-Dichlorobenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
1,2-Dichloroethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
1,2-Dichloropropane	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
1,3,5-Trimethylbenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
1,3-Dichlorobenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
1,3-Dichloropropane	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
1,4-Dichlorobenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
1,4-Dioxane	ND (0.276)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
2,2-Dichloropropane	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
2-Butanone	ND (0.138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
2-Chlorotoluene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
2-Hexanone	ND (0.138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
4-Chlorotoluene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
4-Isopropyltoluene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-7B
Date Sampled: 03/05/25 10:30
Percent Solids: 45
Initial Volume: 4g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-17
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4-Methyl-2-Pentanone	ND (0.138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Acetone	0.445 (0.138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Benzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Bromobenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Bromochloromethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Bromodichloromethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Bromoform	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Bromomethane	ND (0.0276)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Carbon Disulfide	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Carbon Tetrachloride	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Chlorobenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Chloroethane	ND (0.0276)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Chloroform	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Chloromethane	ND (0.0276)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
cis-1,2-Dichloroethene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
cis-1,3-Dichloropropene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Dibromochloromethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Dibromomethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Dichlorodifluoromethane	ND (0.0276)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Diethyl Ether	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Di-isopropyl ether	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Ethyl tertiary-butyl ether	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Ethylbenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Hexachlorobutadiene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Isopropylbenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Methyl tert-Butyl Ether	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Methylene Chloride	ND (0.0689)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-7B
Date Sampled: 03/05/25 10:30
Percent Solids: 45
Initial Volume: 4g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-17
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Naphthalene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
n-Butylbenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
n-Propylbenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
sec-Butylbenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Styrene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
tert-Butylbenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Tertiary-amyl methyl ether	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Tetrachloroethene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Tetrahydrofuran	ND (0.0551)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Toluene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
trans-1,2-Dichloroethene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
trans-1,3-Dichloropropene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Trichloroethene	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Trichlorofluoromethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Vinyl Chloride	ND (0.0276)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Xylene O	ND (0.0138)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Xylene P,M	ND (0.0276)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032
Xylenes (Total)	ND (0.0276)	---	8260D Low	---	1	MEK	03/10/25 15:07	D5C0185	DC51032

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>103 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>82 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>99 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>115 %</i>		<i>70-130</i>

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-7B
Date Sampled: 03/05/25 10:30
Percent Solids: 45
Initial Volume: 4g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-17RE1
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/11/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
1,1,1-Trichloroethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
1,1,2,2-Tetrachloroethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
1,1,2-Trichloroethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
1,1-Dichloroethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
1,1-Dichloroethene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
1,1-Dichloropropene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
1,2,3-Trichlorobenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
1,2,3-Trichloropropane	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
1,2,4-Trichlorobenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
1,2,4-Trimethylbenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
1,2-Dibromo-3-Chloropropane	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
1,2-Dibromoethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
1,2-Dichlorobenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
1,2-Dichloroethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
1,2-Dichloropropane	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
1,3,5-Trimethylbenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
1,3-Dichlorobenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
1,3-Dichloropropane	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
1,4-Dichlorobenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
1,4-Dioxane	ND (0.276)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
2,2-Dichloropropane	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
2-Butanone	ND (0.138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
2-Chlorotoluene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
2-Hexanone	ND (0.138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
4-Chlorotoluene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
4-Isopropyltoluene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-7B
Date Sampled: 03/05/25 10:30
Percent Solids: 45
Initial Volume: 4g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-17RE1
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/11/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4-Methyl-2-Pentanone	ND (0.138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Acetone	0.391 (0.138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Benzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Bromobenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Bromochloromethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Bromodichloromethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Bromoform	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Bromomethane	ND (0.0276)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Carbon Disulfide	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Carbon Tetrachloride	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Chlorobenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Chloroethane	ND (0.0276)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Chloroform	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Chloromethane	ND (0.0276)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
cis-1,2-Dichloroethene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
cis-1,3-Dichloropropene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Dibromochloromethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Dibromomethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Dichlorodifluoromethane	ND (0.0276)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Diethyl Ether	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Di-isopropyl ether	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Ethyl tertiary-butyl ether	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Ethylbenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Hexachlorobutadiene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Isopropylbenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Methyl tert-Butyl Ether	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Methylene Chloride	ND (0.0689)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-7B
Date Sampled: 03/05/25 10:30
Percent Solids: 45
Initial Volume: 4g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-17RE1
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/11/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Naphthalene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
n-Butylbenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
n-Propylbenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
sec-Butylbenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Styrene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
tert-Butylbenzene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Tertiary-amyl methyl ether	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Tetrachloroethene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Tetrahydrofuran	ND (0.0551)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Toluene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
trans-1,2-Dichloroethene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
trans-1,3-Dichloropropene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Trichloroethene	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Trichlorofluoromethane	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Vinyl Chloride	ND (0.0276)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Xylene O	ND (0.0138)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Xylene P,M	ND (0.0276)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123
Xylenes (Total)	ND (0.0276)	---	8260D Low	---	1	MEK	03/11/25 14:48	D5C0208	DC51123

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>106 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>82 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>106 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>117 %</i>		<i>70-130</i>

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-8C
Date Sampled: 03/05/25 09:15
Percent Solids: 54
Initial Volume: 2.8g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-18
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
1,1,1-Trichloroethane	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
1,1,2,2-Tetrachloroethane	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
1,1,2-Trichloroethane	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
1,1-Dichloroethane	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
1,1-Dichloroethene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
1,1-Dichloropropene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
1,2,3-Trichlorobenzene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
1,2,3-Trichloropropane	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
1,2,4-Trichlorobenzene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
1,2,4-Trimethylbenzene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
1,2-Dibromo-3-Chloropropane	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
1,2-Dibromoethane	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
1,2-Dichlorobenzene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
1,2-Dichloroethane	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
1,2-Dichloropropane	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
1,3,5-Trimethylbenzene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
1,3-Dichlorobenzene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
1,3-Dichloropropane	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
1,4-Dichlorobenzene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
1,4-Dioxane	ND (0.334)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
2,2-Dichloropropane	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
2-Butanone	ND (0.167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
2-Chlorotoluene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
2-Hexanone	ND (0.167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
4-Chlorotoluene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
4-Isopropyltoluene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-8C
Date Sampled: 03/05/25 09:15
Percent Solids: 54
Initial Volume: 2.8g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-18
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4-Methyl-2-Pentanone	ND (0.167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Acetone	0.443 (0.167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Benzene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Bromobenzene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Bromochloromethane	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Bromodichloromethane	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Bromoform	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Bromomethane	ND (0.0334)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Carbon Disulfide	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Carbon Tetrachloride	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Chlorobenzene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Chloroethane	ND (0.0334)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Chloroform	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Chloromethane	ND (0.0334)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
cis-1,2-Dichloroethene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
cis-1,3-Dichloropropene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Dibromochloromethane	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Dibromomethane	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Dichlorodifluoromethane	ND (0.0334)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Diethyl Ether	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Di-isopropyl ether	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Ethyl tertiary-butyl ether	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Ethylbenzene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Hexachlorobutadiene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Isopropylbenzene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Methyl tert-Butyl Ether	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Methylene Chloride	ND (0.0834)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-8C
Date Sampled: 03/05/25 09:15
Percent Solids: 54
Initial Volume: 2.8g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-18
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Naphthalene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
n-Butylbenzene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
n-Propylbenzene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
sec-Butylbenzene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Styrene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
tert-Butylbenzene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Tertiary-amyl methyl ether	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Tetrachloroethene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Tetrahydrofuran	ND (0.0667)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Toluene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
trans-1,2-Dichloroethene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
trans-1,3-Dichloropropene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Trichloroethene	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Trichlorofluoromethane	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Vinyl Chloride	ND (0.0334)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Xylene O	ND (0.0167)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Xylene P,M	ND (0.0334)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032
Xylenes (Total)	ND (0.0334)	---	8260D Low	---	1	MEK	03/10/25 15:32	D5C0185	DC51032

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>103 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>79 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>99 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>118 %</i>		<i>70-130</i>

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-8C
Date Sampled: 03/05/25 09:15
Percent Solids: 54
Initial Volume: 3.1g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-18RE1
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/11/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
1,1,1-Trichloroethane	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
1,1,2,2-Tetrachloroethane	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
1,1,2-Trichloroethane	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
1,1-Dichloroethane	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
1,1-Dichloroethene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
1,1-Dichloropropene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
1,2,3-Trichlorobenzene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
1,2,3-Trichloropropane	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
1,2,4-Trichlorobenzene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
1,2,4-Trimethylbenzene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
1,2-Dibromo-3-Chloropropane	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
1,2-Dibromoethane	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
1,2-Dichlorobenzene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
1,2-Dichloroethane	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
1,2-Dichloropropane	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
1,3,5-Trimethylbenzene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
1,3-Dichlorobenzene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
1,3-Dichloropropane	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
1,4-Dichlorobenzene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
1,4-Dioxane	ND (0.301)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
2,2-Dichloropropane	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
2-Butanone	ND (0.151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
2-Chlorotoluene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
2-Hexanone	ND (0.151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
4-Chlorotoluene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
4-Isopropyltoluene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-8C
Date Sampled: 03/05/25 09:15
Percent Solids: 54
Initial Volume: 3.1g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-18RE1
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/11/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4-Methyl-2-Pentanone	ND (0.151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Acetone	0.564 (0.151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Benzene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Bromobenzene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Bromochloromethane	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Bromodichloromethane	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Bromoform	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Bromomethane	ND (0.0301)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Carbon Disulfide	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Carbon Tetrachloride	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Chlorobenzene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Chloroethane	ND (0.0301)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Chloroform	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Chloromethane	ND (0.0301)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
cis-1,2-Dichloroethene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
cis-1,3-Dichloropropene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Dibromochloromethane	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Dibromomethane	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Dichlorodifluoromethane	ND (0.0301)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Diethyl Ether	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Di-isopropyl ether	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Ethyl tertiary-butyl ether	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Ethylbenzene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Hexachlorobutadiene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Isopropylbenzene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Methyl tert-Butyl Ether	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Methylene Chloride	ND (0.0754)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-8C
Date Sampled: 03/05/25 09:15
Percent Solids: 54
Initial Volume: 3.1g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-18RE1
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/11/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Naphthalene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
n-Butylbenzene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
n-Propylbenzene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
sec-Butylbenzene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Styrene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
tert-Butylbenzene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Tertiary-amyl methyl ether	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Tetrachloroethene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Tetrahydrofuran	ND (0.0603)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Toluene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
trans-1,2-Dichloroethene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
trans-1,3-Dichloropropene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Trichloroethene	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Trichlorofluoromethane	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Vinyl Chloride	ND (0.0301)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Xylene O	ND (0.0151)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Xylene P,M	ND (0.0301)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123
Xylenes (Total)	ND (0.0301)	---	8260D Low	---	1	MEK	03/11/25 15:13	D5C0208	DC51123

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>107 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>78 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>107 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>116 %</i>		<i>70-130</i>

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-9A
Date Sampled: 03/05/25 09:50
Percent Solids: 60
Initial Volume: 5.7g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-19
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
1,1,1-Trichloroethane	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
1,1,2,2-Tetrachloroethane	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
1,1,2-Trichloroethane	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
1,1-Dichloroethane	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
1,1-Dichloroethene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
1,1-Dichloropropene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
1,2,3-Trichlorobenzene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
1,2,3-Trichloropropane	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
1,2,4-Trichlorobenzene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
1,2,4-Trimethylbenzene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
1,2-Dibromo-3-Chloropropane	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
1,2-Dibromoethane	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
1,2-Dichlorobenzene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
1,2-Dichloroethane	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
1,2-Dichloropropane	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
1,3,5-Trimethylbenzene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
1,3-Dichlorobenzene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
1,3-Dichloropropane	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
1,4-Dichlorobenzene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
1,4-Dioxane	ND (0.146)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
2,2-Dichloropropane	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
2-Butanone	ND (0.0731)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
2-Chlorotoluene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
2-Hexanone	ND (0.0731)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
4-Chlorotoluene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
4-Isopropyltoluene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-9A
Date Sampled: 03/05/25 09:50
Percent Solids: 60
Initial Volume: 5.7g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-19
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4-Methyl-2-Pentanone	ND (0.0731)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Acetone	0.113 (0.0731)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Benzene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Bromobenzene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Bromochloromethane	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Bromodichloromethane	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Bromoform	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Bromomethane	ND (0.0146)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Carbon Disulfide	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Carbon Tetrachloride	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Chlorobenzene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Chloroethane	ND (0.0146)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Chloroform	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Chloromethane	ND (0.0146)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
cis-1,2-Dichloroethene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
cis-1,3-Dichloropropene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Dibromochloromethane	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Dibromomethane	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Dichlorodifluoromethane	ND (0.0146)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Diethyl Ether	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Di-isopropyl ether	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Ethyl tertiary-butyl ether	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Ethylbenzene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Hexachlorobutadiene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Isopropylbenzene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Methyl tert-Butyl Ether	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Methylene Chloride	ND (0.0365)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-9A
Date Sampled: 03/05/25 09:50
Percent Solids: 60
Initial Volume: 5.7g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-19
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Naphthalene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
n-Butylbenzene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
n-Propylbenzene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
sec-Butylbenzene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Styrene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
tert-Butylbenzene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Tertiary-amyl methyl ether	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Tetrachloroethene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Tetrahydrofuran	ND (0.0292)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Toluene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
trans-1,2-Dichloroethene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
trans-1,3-Dichloropropene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Trichloroethene	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Trichlorofluoromethane	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Vinyl Chloride	ND (0.0146)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Xylene O	ND (0.0073)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Xylene P,M	ND (0.0146)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032
Xylenes (Total)	ND (0.0146)	---	8260D Low	---	1	MEK	03/10/25 15:58	D5C0185	DC51032

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>102 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>86 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>98 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>109 %</i>		<i>70-130</i>

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-10C
Date Sampled: 03/05/25 09:00
Percent Solids: 79
Initial Volume: 5g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-20
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
1,1,1-Trichloroethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
1,1,2,2-Tetrachloroethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
1,1,2-Trichloroethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
1,1-Dichloroethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
1,1-Dichloroethene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
1,1-Dichloropropene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
1,2,3-Trichlorobenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
1,2,3-Trichloropropane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
1,2,4-Trichlorobenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
1,2,4-Trimethylbenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
1,2-Dibromo-3-Chloropropane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
1,2-Dibromoethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
1,2-Dichlorobenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
1,2-Dichloroethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
1,2-Dichloropropane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
1,3,5-Trimethylbenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
1,3-Dichlorobenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
1,3-Dichloropropane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
1,4-Dichlorobenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
1,4-Dioxane	ND (0.127)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
2,2-Dichloropropane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
2-Butanone	ND (0.0636)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
2-Chlorotoluene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
2-Hexanone	ND (0.0636)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
4-Chlorotoluene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
4-Isopropyltoluene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-10C
Date Sampled: 03/05/25 09:00
Percent Solids: 79
Initial Volume: 5g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-20
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4-Methyl-2-Pentanone	ND (0.0636)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Acetone	ND (0.0636)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Benzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Bromobenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Bromochloromethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Bromodichloromethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Bromoform	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Bromomethane	ND (0.0127)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Carbon Disulfide	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Carbon Tetrachloride	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Chlorobenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Chloroethane	ND (0.0127)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Chloroform	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Chloromethane	ND (0.0127)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
cis-1,2-Dichloroethene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
cis-1,3-Dichloropropene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Dibromochloromethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Dibromomethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Dichlorodifluoromethane	ND (0.0127)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Diethyl Ether	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Di-isopropyl ether	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Ethyl tertiary-butyl ether	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Ethylbenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Hexachlorobutadiene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Isopropylbenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Methyl tert-Butyl Ether	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Methylene Chloride	ND (0.0318)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-10C
Date Sampled: 03/05/25 09:00
Percent Solids: 79
Initial Volume: 5g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-20
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Naphthalene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
n-Butylbenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
n-Propylbenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
sec-Butylbenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Styrene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
tert-Butylbenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Tertiary-amyl methyl ether	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Tetrachloroethene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Tetrahydrofuran	ND (0.0255)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Toluene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
trans-1,2-Dichloroethene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
trans-1,3-Dichloropropene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Trichloroethene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Trichlorofluoromethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Vinyl Chloride	ND (0.0127)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Xylene O	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Xylene P,M	ND (0.0127)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032
Xylenes (Total)	ND (0.0127)	---	8260D Low	---	1	MEK	03/10/25 16:24	D5C0185	DC51032

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>107 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>101 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>101 %</i>		<i>70-130</i>

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-1 - Oven Dried
Date Sampled: 03/05/25 13:20
Percent Solids: 100

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-21
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Arsenic	3.58 (0.39)	---	6010D	---	1	CEV	03/12/25 12:46	5.16 100	DC51107
Cadmium	0.25 (0.10)	---	6010D	---	1	CEV	03/12/25 12:46	5.16 100	DC51107
Chromium	11.7 (0.39)	---	6010D	---	1	CEV	03/12/25 12:46	5.16 100	DC51107
Copper	56.4 (0.97)	---	6010D	---	1	CEV	03/12/25 12:46	5.16 100	DC51107
Lead	368 (1.94)	---	6010D	---	1	CEV	03/12/25 12:46	5.16 100	DC51107
Mercury	0.171 (0.010)	---	7471B	---	1	BJV	03/11/25 14:59	2.01 40	DC51121
Nickel	7.33 (0.97)	---	6010D	---	1	CEV	03/12/25 12:46	5.16 100	DC51107
Zinc	140 (0.97)	---	6010D	---	1	CEV	03/12/25 12:46	5.16 100	DC51107

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
 Client Project ID: Lily Pond - 401WQ
 Client Sample ID: 2025-SS-1 - Oven Dried
 Date Sampled: 03/05/25 13:20
 Percent Solids: 100

ESS Laboratory Work Order: 25C0241
 ESS Laboratory Sample ID: 25C0241-21RE1
 Sample Matrix: Sediment
 Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Lead	191 (4.78)	---	6010D	---	1	CEV	04/14/25 13:33	2.09 100	DD51117

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-1 - Oven Dried
Date Sampled: 03/05/25 13:20
Percent Solids: 100

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-21RE2
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Lead	211 (4.74)	---	6010D	---	1	CEV	04/14/25 13:35	2.11 100	DD51117

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-2 - Oven Dried
Date Sampled: 03/05/25 11:15
Percent Solids: 99

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-22
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Arsenic	6.78 (0.39)	---	6010D	---	1	CEV	03/12/25 12:49	5.14 100	DC51107
Cadmium	2.90 (0.10)	---	6010D	---	1	CEV	03/12/25 12:49	5.14 100	DC51107
Chromium	19.0 (0.39)	---	6010D	---	1	CEV	03/12/25 12:49	5.14 100	DC51107
Copper	10800 (49.2)	---	6010D	---	50	CEV	03/13/25 11:44	5.14 100	DC51107
Lead	278 (1.97)	---	6010D	---	1	CEV	03/12/25 12:49	5.14 100	DC51107
Mercury	0.364 (0.094)	---	7471B	---	10	BJV	03/11/25 16:32	2.14 40	DC51121
Nickel	12.9 (0.98)	---	6010D	---	1	CEV	03/12/25 12:49	5.14 100	DC51107
Zinc	1790 (49.2)	---	6010D	---	50	CEV	03/13/25 11:44	5.14 100	DC51107

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-3 - Oven Dried
Date Sampled: 03/05/25 11:00
Percent Solids: 100

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-23
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Arsenic	0.82 (0.38)	---	6010D	---	1	CEV	03/12/25 12:51	5.24 100	DC51107
Cadmium	ND (0.10)	---	6010D	---	1	CEV	03/12/25 12:51	5.24 100	DC51107
Chromium	4.68 (0.38)	---	6010D	---	1	CEV	03/12/25 12:51	5.24 100	DC51107
Copper	8.50 (0.95)	---	6010D	---	1	CEV	03/12/25 12:51	5.24 100	DC51107
Lead	33.3 (1.91)	---	6010D	---	1	CEV	03/12/25 12:51	5.24 100	DC51107
Mercury	0.049 (0.009)	---	7471B	---	1	BJV	03/11/25 15:03	2.18 40	DC51121
Nickel	2.63 (0.95)	---	6010D	---	1	CEV	03/12/25 12:51	5.24 100	DC51107
Zinc	16.5 (0.95)	---	6010D	---	1	CEV	03/12/25 12:51	5.24 100	DC51107

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-4 - Oven Dried
Date Sampled: 03/05/25 12:00
Percent Solids: 99

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-24
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Arsenic	10.5 (0.40)	---	6010D	---	1	CEV	03/12/25 12:53	5.08 100	DC51107
Cadmium	0.38 (0.10)	---	6010D	---	1	CEV	03/12/25 12:53	5.08 100	DC51107
Chromium	14.1 (0.40)	---	6010D	---	1	CEV	03/12/25 12:53	5.08 100	DC51107
Copper	70.5 (1.00)	---	6010D	---	1	CEV	03/12/25 12:53	5.08 100	DC51107
Lead	383 (1.99)	---	6010D	---	1	CEV	03/12/25 12:53	5.08 100	DC51107
Mercury	0.480 (0.189)	---	7471B	---	20	BJV	03/11/25 16:34	2.12 40	DC51121
Nickel	10.3 (1.00)	---	6010D	---	1	CEV	03/12/25 12:53	5.08 100	DC51107
Zinc	414 (9.96)	---	6010D	---	10	CEV	03/13/25 11:46	5.08 100	DC51107

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-5 - Oven Dried
Date Sampled: 03/05/25 13:15
Percent Solids: 100

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-25
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Arsenic	5.68 (0.37)	---	6010D	---	1	CEV	03/12/25 12:55	5.39 100	DC51107
Cadmium	0.11 (0.09)	---	6010D	---	1	CEV	03/12/25 12:55	5.39 100	DC51107
Chromium	13.8 (0.37)	---	6010D	---	1	CEV	03/12/25 12:55	5.39 100	DC51107
Copper	39.0 (0.93)	---	6010D	---	1	CEV	03/12/25 12:55	5.39 100	DC51107
Lead	361 (1.86)	---	6010D	---	1	CEV	03/12/25 12:55	5.39 100	DC51107
Mercury	0.354 (0.041)	---	7471B	---	5	BJV	03/11/25 16:37	2.41 40	DC51121
Nickel	8.29 (0.93)	---	6010D	---	1	CEV	03/12/25 12:55	5.39 100	DC51107
Zinc	126 (0.93)	---	6010D	---	1	CEV	03/12/25 12:55	5.39 100	DC51107

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-6 - Oven Dried
Date Sampled: 03/05/25 12:30
Percent Solids: 99

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-26
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Arsenic	8.05 (0.39)	---	6010D	---	1	CEV	03/12/25 13:47	5.16 100	DC51107
Cadmium	ND (0.10)	---	6010D	---	1	CEV	03/12/25 13:47	5.16 100	DC51107
Chromium	9.65 (0.39)	---	6010D	---	1	CEV	03/12/25 13:47	5.16 100	DC51107
Copper	38.0 (0.98)	---	6010D	---	1	CEV	03/12/25 13:47	5.16 100	DC51107
Lead	271 (1.96)	---	6010D	---	1	CEV	03/12/25 13:47	5.16 100	DC51107
Mercury	0.453 (0.041)	---	7471B	---	5	BJV	03/11/25 16:39	2.42 40	DC51121
Nickel	5.57 (0.98)	---	6010D	---	1	CEV	03/12/25 13:47	5.16 100	DC51107
Zinc	94.4 (0.98)	---	6010D	---	1	CEV	03/12/25 13:47	5.16 100	DC51107

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-7 - Oven Dried
Date Sampled: 03/05/25 10:30
Percent Solids: 100

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-27
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Arsenic	2.29 (0.37)	---	6010D	---	1	CEV	03/12/25 13:49	5.41 100	DC51107
Cadmium	ND (0.09)	---	6010D	---	1	CEV	03/12/25 13:49	5.41 100	DC51107
Chromium	10.2 (0.37)	---	6010D	---	1	CEV	03/12/25 13:49	5.41 100	DC51107
Copper	30.7 (0.92)	---	6010D	---	1	CEV	03/12/25 13:49	5.41 100	DC51107
Lead	117 (1.85)	---	6010D	---	1	CEV	03/12/25 13:49	5.41 100	DC51107
Mercury	0.132 (0.010)	---	7471B	---	1	BJV	03/11/25 16:09	2.05 40	DC51121
Nickel	5.23 (0.92)	---	6010D	---	1	CEV	03/12/25 13:49	5.41 100	DC51107
Zinc	65.2 (0.92)	---	6010D	---	1	CEV	03/12/25 13:49	5.41 100	DC51107

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-8 - Oven Dried
Date Sampled: 03/05/25 09:15
Percent Solids: 100

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-28
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Arsenic	3.79 (0.37)	---	6010D	---	1	CEV	03/12/25 13:51	5.45 100	DC51107
Cadmium	0.22 (0.09)	---	6010D	---	1	CEV	03/12/25 13:51	5.45 100	DC51107
Chromium	10.1 (0.37)	---	6010D	---	1	CEV	03/12/25 13:51	5.45 100	DC51107
Copper	26.6 (0.92)	---	6010D	---	1	CEV	03/12/25 13:51	5.45 100	DC51107
Lead	189 (1.83)	---	6010D	---	1	CEV	03/12/25 13:51	5.45 100	DC51107
Mercury	0.423 (0.046)	---	7471B	---	5	BJV	03/11/25 16:41	2.16 40	DC51121
Nickel	6.03 (0.92)	---	6010D	---	1	CEV	03/12/25 13:51	5.45 100	DC51107
Zinc	100 (0.92)	---	6010D	---	1	CEV	03/12/25 13:51	5.45 100	DC51107

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-9 - Oven Dried
Date Sampled: 03/05/25 09:50
Percent Solids: 100

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-29
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Arsenic	1.28 (0.39)	---	6010D	---	1	CEV	03/12/25 13:54	5.16 100	DC51107
Cadmium	ND (0.10)	---	6010D	---	1	CEV	03/12/25 13:54	5.16 100	DC51107
Chromium	5.42 (0.39)	---	6010D	---	1	CEV	03/12/25 13:54	5.16 100	DC51107
Copper	4.91 (0.97)	---	6010D	---	1	CEV	03/12/25 13:54	5.16 100	DC51107
Lead	43.6 (1.94)	---	6010D	---	1	CEV	03/12/25 13:54	5.16 100	DC51107
Mercury	0.036 (0.009)	---	7471B	---	1	BJV	03/11/25 15:30	2.14 40	DC51121
Nickel	2.77 (0.97)	---	6010D	---	1	CEV	03/12/25 13:54	5.16 100	DC51107
Zinc	11.2 (0.97)	---	6010D	---	1	CEV	03/12/25 13:54	5.16 100	DC51107

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-10 - Oven Dried
Date Sampled: 03/05/25 09:00
Percent Solids: 99

ESS Laboratory Work Order: 25C0241
ESS Laboratory Sample ID: 25C0241-30
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Arsenic	2.23 (0.38)	---	6010D	---	1	CEV	03/12/25 14:03	5.32 100	DC51107
Cadmium	ND (0.10)	---	6010D	---	1	CEV	03/12/25 14:03	5.32 100	DC51107
Chromium	6.25 (0.38)	---	6010D	---	1	CEV	03/12/25 14:03	5.32 100	DC51107
Copper	4.84 (0.95)	---	6010D	---	1	CEV	03/12/25 14:03	5.32 100	DC51107
Lead	38.3 (1.90)	---	6010D	---	1	CEV	03/12/25 14:03	5.32 100	DC51107
Mercury	0.063 (0.010)	---	7471B	---	1	BJV	03/11/25 15:32	2.09 40	DC51121
Nickel	3.08 (0.95)	---	6010D	---	1	CEV	03/12/25 14:03	5.32 100	DC51107
Zinc	14.1 (0.95)	---	6010D	---	1	CEV	03/12/25 14:03	5.32 100	DC51107

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Total Metals

Batch DC51007 - 3050B

Blank

Arsenic	ND	2.34	mg/kg wet
Barium	ND	0.93	mg/kg wet
Cadmium	ND	0.47	mg/kg wet
Chromium	ND	0.93	mg/kg wet
Lead	ND	4.67	mg/kg wet
Selenium	ND	4.67	mg/kg wet
Silver	ND	0.47	mg/kg wet

LCS

Arsenic	132	7.81	mg/kg wet	280.0	47	32-110
Barium	333	3.12	mg/kg wet	688.0	48	33-110
Cadmium	93.2	1.56	mg/kg wet	210.0	44	33-110
Chromium	157	3.12	mg/kg wet	225.0	70	50-110
Lead	166	15.6	mg/kg wet	350.0	47	31-110
Selenium	151	15.6	mg/kg wet	320.0	47	29-110
Silver	43.8	1.56	mg/kg wet	95.00	46	30-111

LCS Dup

Arsenic	123	8.20	mg/kg wet	280.0	44	32-110	7	30
Barium	298	3.28	mg/kg wet	688.0	43	33-110	11	30
Cadmium	87.3	1.64	mg/kg wet	210.0	42	33-110	7	30
Chromium	147	3.28	mg/kg wet	225.0	65	50-110	7	30
Lead	155	16.4	mg/kg wet	350.0	44	31-110	7	30
Selenium	136	16.4	mg/kg wet	320.0	43	29-110	10	30
Silver	40.1	1.64	mg/kg wet	95.00	42	30-111	9	30

Batch DC51008 - 7471B

Blank

Mercury	ND	0.029	mg/kg wet

LCS

Mercury	18.5	3.09	mg/kg wet	24.00	77	56-110

LCS Dup

Mercury	18.4	2.91	mg/kg wet	24.00	77	56-110	0.2	30

Batch DC51107 - 3050B

Blank

Arsenic	ND	0.87	mg/kg wet
Cadmium	ND	0.22	mg/kg wet
Chromium	ND	0.87	mg/kg wet
Copper	ND	2.18	mg/kg wet
Lead	ND	4.37	mg/kg wet
Nickel	ND	2.18	mg/kg wet
Zinc	ND	2.18	mg/kg wet

LCS

Arsenic	124	3.03	mg/kg wet	280.0	44	32-110

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Total Metals

Batch DC51107 - 3050B

Cadmium	85.2	0.76	mg/kg wet	210.0		41	33-110			
Chromium	145	3.03	mg/kg wet	225.0		64	50-110			
Copper	127	7.58	mg/kg wet	290.0		44	33-110			
Lead	153	15.2	mg/kg wet	350.0		44	31-110			
Nickel	60.4	7.58	mg/kg wet	95.00		64	48-111			
Zinc	210	7.58	mg/kg wet	500.0		42	30-110			

LCS Dup

Arsenic	127	2.99	mg/kg wet	280.0		45	32-110	2	30	
Cadmium	90.8	0.75	mg/kg wet	210.0		43	33-110	6	30	
Chromium	152	2.99	mg/kg wet	225.0		68	50-110	5	30	
Copper	135	7.46	mg/kg wet	290.0		47	33-110	6	30	
Lead	159	14.9	mg/kg wet	350.0		45	31-110	4	30	
Nickel	63.4	7.46	mg/kg wet	95.00		67	48-111	5	30	
Zinc	221	7.46	mg/kg wet	500.0		44	30-110	5	30	

Reference

Lead	3470	169	mg/kg wet	4490		77	81-120			R-

Batch DC51121 - 7471A

Blank

Mercury	ND	0.030	mg/kg wet							

LCS

Mercury	19.5	3.09	mg/kg wet	24.00		81	56-110			

LCS Dup

Mercury	17.8	2.83	mg/kg wet	24.00		74	56-110	9	30	

Batch DD51014 - 3050B

Blank

Lead	ND	4.90	mg/kg wet							

LCS

Lead	138	15.9	mg/kg wet	124.0		111	80-120			

LCS Dup

Lead	144	15.2	mg/kg wet	124.0		116	80-120	4	30	

Batch DD51117 - 3050B

Blank

Lead	ND	4.74	mg/kg wet							

LCS

Lead	127	16.4	mg/kg wet	124.0		103	80-120			

LCS Dup

Lead	118	16.4	mg/kg wet	124.0		95	80-120	8	30	

1311 TCLP Metals

Batch DD51127 - 3005A

Blank

Lead	ND	0.05	mg/L							

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
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ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

1311 TCLP Metals

Batch DD51127 - 3005A

LCS

Lead	0.49	0.05	mg/L	0.5000		97	80-120			

LCS Dup

Lead	0.51	0.05	mg/L	0.5000		102	80-120	4	20	

Volatile Organics Low Level

Batch DC51032 - 5035

Blank

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet
1,1,2,2-Tetrachloroethane	ND	0.0050	mg/kg wet
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet
1,1-Dichloroethane	ND	0.0050	mg/kg wet
1,1-Dichloroethene	ND	0.0050	mg/kg wet
1,1-Dichloropropene	ND	0.0050	mg/kg wet
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet
1,2-Dibromoethane	ND	0.0050	mg/kg wet
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet
1,2-Dichloroethane	ND	0.0050	mg/kg wet
1,2-Dichloropropane	ND	0.0050	mg/kg wet
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet
1,3-Dichloropropane	ND	0.0050	mg/kg wet
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet
1,4-Dioxane	ND	0.100	mg/kg wet
2,2-Dichloropropane	ND	0.0050	mg/kg wet
2-Butanone	ND	0.0500	mg/kg wet
2-Chlorotoluene	ND	0.0050	mg/kg wet
2-Hexanone	ND	0.0500	mg/kg wet
4-Chlorotoluene	ND	0.0050	mg/kg wet
4-Isopropyltoluene	ND	0.0050	mg/kg wet
4-Methyl-2-Pentanone	ND	0.0500	mg/kg wet
Acetone	ND	0.0500	mg/kg wet
Benzene	ND	0.0050	mg/kg wet
Bromobenzene	ND	0.0050	mg/kg wet
Bromochloromethane	ND	0.0050	mg/kg wet
Bromodichloromethane	ND	0.0050	mg/kg wet
Bromoform	ND	0.0050	mg/kg wet
Bromomethane	ND	0.0100	mg/kg wet
Carbon Disulfide	ND	0.0050	mg/kg wet

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Volatile Organics Low Level

Batch DC51032 - 5035

Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0050	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0250	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0200	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0470		mg/kg wet	0.05000		94	70-130			
Surrogate: 4-Bromofluorobenzene	0.0492		mg/kg wet	0.05000		98	70-130			
Surrogate: Dibromofluoromethane	0.0472		mg/kg wet	0.05000		94	70-130			
Surrogate: Toluene-d8	0.0497		mg/kg wet	0.05000		99	70-130			

LCS

1,1,1,2-Tetrachloroethane	0.0524	0.0050	mg/kg wet	0.05000		105	70-130			
1,1,1-Trichloroethane	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			
1,1,2,2-Tetrachloroethane	0.0430	0.0050	mg/kg wet	0.05000		86	40-160			
1,1,2-Trichloroethane	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
1,1-Dichloroethane	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Volatile Organics Low Level

Batch DC51032 - 5035

1,1-Dichloroethene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			
1,1-Dichloropropene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130			
1,2,3-Trichlorobenzene	0.0548	0.0050	mg/kg wet	0.05000		110	70-130			
1,2,3-Trichloropropane	0.0446	0.0050	mg/kg wet	0.05000		89	70-130			
1,2,4-Trichlorobenzene	0.0546	0.0050	mg/kg wet	0.05000		109	70-130			
1,2,4-Trimethylbenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
1,2-Dibromo-3-Chloropropane	0.0476	0.0050	mg/kg wet	0.05000		95	70-130			
1,2-Dibromoethane	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
1,2-Dichlorobenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
1,2-Dichloroethane	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
1,2-Dichloropropane	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
1,3,5-Trimethylbenzene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130			
1,3-Dichlorobenzene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130			
1,3-Dichloropropane	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
1,4-Dichlorobenzene	0.0480	0.0050	mg/kg wet	0.05000		96	70-130			
1,4-Dioxane	1.01	0.100	mg/kg wet	1.000		101	70-130			
2,2-Dichloropropane	0.0506	0.0050	mg/kg wet	0.05000		101	70-130			
2-Butanone	0.241	0.0500	mg/kg wet	0.2500		96	40-160			
2-Chlorotoluene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			
2-Hexanone	0.221	0.0500	mg/kg wet	0.2500		88	40-160			
4-Chlorotoluene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			
4-Isopropyltoluene	0.0463	0.0050	mg/kg wet	0.05000		93	70-130			
4-Methyl-2-Pentanone	0.210	0.0500	mg/kg wet	0.2500		84	40-160			
Acetone	0.220	0.0500	mg/kg wet	0.2500		88	40-160			
Benzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
Bromobenzene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130			
Bromochloromethane	0.0522	0.0050	mg/kg wet	0.05000		104	70-130			
Bromodichloromethane	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
Bromoform	0.0538	0.0050	mg/kg wet	0.05000		108	40-160			
Bromomethane	0.0471	0.0100	mg/kg wet	0.05000		94	40-160			
Carbon Disulfide	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
Carbon Tetrachloride	0.0490	0.0050	mg/kg wet	0.05000		98	70-130			
Chlorobenzene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130			
Chloroethane	0.0445	0.0100	mg/kg wet	0.05000		89	40-160			
Chloroform	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
Chloromethane	0.0400	0.0100	mg/kg wet	0.05000		80	40-160			
cis-1,2-Dichloroethene	0.0499	0.0050	mg/kg wet	0.05000		100	70-130			
cis-1,3-Dichloropropene	0.0529	0.0050	mg/kg wet	0.05000		106	40-160			
Dibromochloromethane	0.0534	0.0050	mg/kg wet	0.05000		107	40-160			
Dibromomethane	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
Dichlorodifluoromethane	0.0314	0.0100	mg/kg wet	0.05000		63	40-160			
Diethyl Ether	0.0509	0.0050	mg/kg wet	0.05000		102	70-130			
Di-isopropyl ether	0.0522	0.0050	mg/kg wet	0.05000		104	70-130			
Ethyl tertiary-butyl ether	0.0546	0.0050	mg/kg wet	0.05000		109	70-130			
Ethylbenzene	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Volatile Organics Low Level

Batch DC51032 - 5035

Hexachlorobutadiene	0.0504	0.0050	mg/kg wet	0.05000		101	40-160			
Isopropylbenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
Methyl tert-Butyl Ether	0.0531	0.0050	mg/kg wet	0.05000		106	70-130			
Methylene Chloride	0.0477	0.0250	mg/kg wet	0.05000		95	70-130			
Naphthalene	0.0566	0.0050	mg/kg wet	0.05000		113	40-160			
n-Butylbenzene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
n-Propylbenzene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
sec-Butylbenzene	0.0448	0.0050	mg/kg wet	0.05000		90	70-130			
Styrene	0.0508	0.0050	mg/kg wet	0.05000		102	40-160			
tert-Butylbenzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
Tertiary-amyl methyl ether	0.0551	0.0050	mg/kg wet	0.05000		110	70-130			
Tetrachloroethene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
Tetrahydrofuran	0.0424	0.0200	mg/kg wet	0.05000		85	70-130			
Toluene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130			
trans-1,2-Dichloroethene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
trans-1,3-Dichloropropene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130			
Trichloroethene	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
Trichlorofluoromethane	0.0395	0.0050	mg/kg wet	0.05000		79	40-160			
Vinyl Chloride	0.0282	0.0100	mg/kg wet	0.05000		56	70-130			B-
Xylene O	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
Xylene P,M	0.0958	0.0100	mg/kg wet	0.1000		96	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0451		mg/kg wet	0.05000		90	70-130			
Surrogate: 4-Bromofluorobenzene	0.0497		mg/kg wet	0.05000		99	70-130			
Surrogate: Dibromofluoromethane	0.0486		mg/kg wet	0.05000		97	70-130			
Surrogate: Toluene-d8	0.0502		mg/kg wet	0.05000		100	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	0.0531	0.0050	mg/kg wet	0.05000		106	70-130	1	20	
1,1,1-Trichloroethane	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	2	20	
1,1,2,2-Tetrachloroethane	0.0439	0.0050	mg/kg wet	0.05000		88	40-160	2	20	
1,1,2-Trichloroethane	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	2	20	
1,1-Dichloroethane	0.0488	0.0050	mg/kg wet	0.05000		98	70-130	1	20	
1,1-Dichloroethene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	1	20	
1,1-Dichloropropene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	0.8	20	
1,2,3-Trichlorobenzene	0.0550	0.0050	mg/kg wet	0.05000		110	70-130	0.5	20	
1,2,3-Trichloropropane	0.0456	0.0050	mg/kg wet	0.05000		91	70-130	2	20	
1,2,4-Trichlorobenzene	0.0545	0.0050	mg/kg wet	0.05000		109	70-130	0.1	20	
1,2,4-Trimethylbenzene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130	0.6	20	
1,2-Dibromo-3-Chloropropane	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	3	20	
1,2-Dibromoethane	0.0519	0.0050	mg/kg wet	0.05000		104	70-130	0.7	20	
1,2-Dichlorobenzene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	0.6	20	
1,2-Dichloroethane	0.0476	0.0050	mg/kg wet	0.05000		95	70-130	1	20	
1,2-Dichloropropane	0.0494	0.0050	mg/kg wet	0.05000		99	70-130	1	20	
1,3,5-Trimethylbenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	0.8	20	
1,3-Dichlorobenzene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130	0.7	20	
1,3-Dichloropropane	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	2	20	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Volatile Organics Low Level

Batch DC51032 - 5035

1,4-Dichlorobenzene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	0.2	20	
1,4-Dioxane	1.14	0.100	mg/kg wet	1.000		114	70-130	12	20	
2,2-Dichloropropane	0.0514	0.0050	mg/kg wet	0.05000		103	70-130	2	20	
2-Butanone	0.246	0.0500	mg/kg wet	0.2500		98	40-160	2	20	
2-Chlorotoluene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	0.3	20	
2-Hexanone	0.227	0.0500	mg/kg wet	0.2500		91	40-160	3	20	
4-Chlorotoluene	0.0480	0.0050	mg/kg wet	0.05000		96	70-130	0.2	20	
4-Isopropyltoluene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130	0.7	20	
4-Methyl-2-Pentanone	0.215	0.0500	mg/kg wet	0.2500		86	40-160	3	20	
Acetone	0.220	0.0500	mg/kg wet	0.2500		88	40-160	0.2	20	
Benzene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	2	20	
Bromobenzene	0.0509	0.0050	mg/kg wet	0.05000		102	70-130	0.7	20	
Bromochloromethane	0.0532	0.0050	mg/kg wet	0.05000		106	70-130	2	20	
Bromodichloromethane	0.0516	0.0050	mg/kg wet	0.05000		103	70-130	3	20	
Bromoform	0.0547	0.0050	mg/kg wet	0.05000		109	40-160	2	20	
Bromomethane	0.0470	0.0100	mg/kg wet	0.05000		94	40-160	0.2	20	
Carbon Disulfide	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	2	20	
Carbon Tetrachloride	0.0500	0.0050	mg/kg wet	0.05000		100	70-130	2	20	
Chlorobenzene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	1	20	
Chloroethane	0.0450	0.0100	mg/kg wet	0.05000		90	40-160	1	20	
Chloroform	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	2	20	
Chloromethane	0.0404	0.0100	mg/kg wet	0.05000		81	40-160	0.9	20	
cis-1,2-Dichloroethene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	2	20	
cis-1,3-Dichloropropene	0.0535	0.0050	mg/kg wet	0.05000		107	40-160	1	20	
Dibromochloromethane	0.0542	0.0050	mg/kg wet	0.05000		108	40-160	1	20	
Dibromomethane	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	2	20	
Dichlorodifluoromethane	0.0319	0.0100	mg/kg wet	0.05000		64	40-160	2	20	
Diethyl Ether	0.0519	0.0050	mg/kg wet	0.05000		104	70-130	2	20	
Di-isopropyl ether	0.0529	0.0050	mg/kg wet	0.05000		106	70-130	1	20	
Ethyl tertiary-butyl ether	0.0554	0.0050	mg/kg wet	0.05000		111	70-130	1	20	
Ethylbenzene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130	1	20	
Hexachlorobutadiene	0.0512	0.0050	mg/kg wet	0.05000		102	40-160	1	20	
Isopropylbenzene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	0.9	20	
Methyl tert-Butyl Ether	0.0540	0.0050	mg/kg wet	0.05000		108	70-130	2	20	
Methylene Chloride	0.0485	0.0250	mg/kg wet	0.05000		97	70-130	2	20	
Naphthalene	0.0578	0.0050	mg/kg wet	0.05000		116	40-160	2	20	
n-Butylbenzene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	0.2	20	
n-Propylbenzene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130	0.5	20	
sec-Butylbenzene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	0.9	20	
Styrene	0.0514	0.0050	mg/kg wet	0.05000		103	40-160	1	20	
tert-Butylbenzene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	0.7	20	
Tertiary-amyl methyl ether	0.0560	0.0050	mg/kg wet	0.05000		112	70-130	2	20	
Tetrachloroethene	0.0511	0.0050	mg/kg wet	0.05000		102	70-130	0.8	20	
Tetrahydrofuran	0.0445	0.0200	mg/kg wet	0.05000		89	70-130	5	20	
Toluene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130	2	20	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Volatile Organics Low Level

Batch DC51032 - 5035

trans-1,2-Dichloroethene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	2	20	
trans-1,3-Dichloropropene	0.0530	0.0050	mg/kg wet	0.05000		106	70-130	1	20	
Trichloroethene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	3	20	
Trichlorofluoromethane	0.0399	0.0050	mg/kg wet	0.05000		80	40-160	1	20	
Vinyl Chloride	0.0295	0.0100	mg/kg wet	0.05000		59	70-130	4	20	B-
Xylene O	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	1	20	
Xylene P,M	0.0967	0.0100	mg/kg wet	0.1000		97	70-130	1	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0449</i>		mg/kg wet	<i>0.05000</i>		<i>90</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0495</i>		mg/kg wet	<i>0.05000</i>		<i>99</i>	<i>70-130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0482</i>		mg/kg wet	<i>0.05000</i>		<i>96</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0494</i>		mg/kg wet	<i>0.05000</i>		<i>99</i>	<i>70-130</i>			

Batch DC51123 - 5035

Blank

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet
1,1,2,2-Tetrachloroethane	ND	0.0050	mg/kg wet
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet
1,1-Dichloroethane	ND	0.0050	mg/kg wet
1,1-Dichloroethene	ND	0.0050	mg/kg wet
1,1-Dichloropropene	ND	0.0050	mg/kg wet
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet
1,2-Dibromoethane	ND	0.0050	mg/kg wet
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet
1,2-Dichloroethane	ND	0.0050	mg/kg wet
1,2-Dichloropropane	ND	0.0050	mg/kg wet
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet
1,3-Dichloropropane	ND	0.0050	mg/kg wet
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet
1,4-Dioxane	ND	0.100	mg/kg wet
2,2-Dichloropropane	ND	0.0050	mg/kg wet
2-Butanone	ND	0.0500	mg/kg wet
2-Chlorotoluene	ND	0.0050	mg/kg wet
2-Hexanone	ND	0.0500	mg/kg wet
4-Chlorotoluene	ND	0.0050	mg/kg wet
4-Isopropyltoluene	ND	0.0050	mg/kg wet
4-Methyl-2-Pentanone	ND	0.0500	mg/kg wet
Acetone	ND	0.0500	mg/kg wet
Benzene	ND	0.0050	mg/kg wet
Bromobenzene	ND	0.0050	mg/kg wet

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Volatile Organics Low Level

Batch DC51123 - 5035

Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0050	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0250	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0200	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0525		mg/kg wet	0.05000		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.0493		mg/kg wet	0.05000		99	70-130			
Surrogate: Dibromofluoromethane	0.0493		mg/kg wet	0.05000		99	70-130			
Surrogate: Toluene-d8	0.0502		mg/kg wet	0.05000		100	70-130			

LCS

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Dependability ♦ Quality

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CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Volatile Organics Low Level

Batch DC51123 - 5035

1,1,1,2-Tetrachloroethane	0.0518	0.0050	mg/kg wet	0.05000		104	70-130			
1,1,1-Trichloroethane	0.0513	0.0050	mg/kg wet	0.05000		103	70-130			
1,1,2,2-Tetrachloroethane	0.0439	0.0050	mg/kg wet	0.05000		88	40-160			
1,1,2-Trichloroethane	0.0512	0.0050	mg/kg wet	0.05000		102	70-130			
1,1-Dichloroethane	0.0524	0.0050	mg/kg wet	0.05000		105	70-130			
1,1-Dichloroethene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
1,1-Dichloropropene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
1,2,3-Trichlorobenzene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
1,2,3-Trichloropropane	0.0448	0.0050	mg/kg wet	0.05000		90	70-130			
1,2,4-Trichlorobenzene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130			
1,2,4-Trimethylbenzene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130			
1,2-Dibromo-3-Chloropropane	0.0478	0.0050	mg/kg wet	0.05000		96	70-130			
1,2-Dibromoethane	0.0508	0.0050	mg/kg wet	0.05000		102	70-130			
1,2-Dichlorobenzene	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
1,2-Dichloroethane	0.0523	0.0050	mg/kg wet	0.05000		105	70-130			
1,2-Dichloropropane	0.0530	0.0050	mg/kg wet	0.05000		106	70-130			
1,3,5-Trimethylbenzene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
1,3-Dichlorobenzene	0.0464	0.0050	mg/kg wet	0.05000		93	70-130			
1,3-Dichloropropane	0.0503	0.0050	mg/kg wet	0.05000		101	70-130			
1,4-Dichlorobenzene	0.0464	0.0050	mg/kg wet	0.05000		93	70-130			
1,4-Dioxane	1.06	0.100	mg/kg wet	1.000		106	70-130			
2,2-Dichloropropane	0.0536	0.0050	mg/kg wet	0.05000		107	70-130			
2-Butanone	0.319	0.0500	mg/kg wet	0.2500		128	40-160			
2-Chlorotoluene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
2-Hexanone	0.219	0.0500	mg/kg wet	0.2500		87	40-160			
4-Chlorotoluene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
4-Isopropyltoluene	0.0449	0.0050	mg/kg wet	0.05000		90	70-130			
4-Methyl-2-Pentanone	0.228	0.0500	mg/kg wet	0.2500		91	40-160			
Acetone	0.213	0.0500	mg/kg wet	0.2500		85	40-160			
Benzene	0.0519	0.0050	mg/kg wet	0.05000		104	70-130			
Bromobenzene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130			
Bromochloromethane	0.0546	0.0050	mg/kg wet	0.05000		109	70-130			
Bromodichloromethane	0.0553	0.0050	mg/kg wet	0.05000		111	70-130			
Bromoform	0.0522	0.0050	mg/kg wet	0.05000		104	40-160			
Bromomethane	0.0513	0.0100	mg/kg wet	0.05000		103	40-160			
Carbon Disulfide	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
Carbon Tetrachloride	0.0527	0.0050	mg/kg wet	0.05000		105	70-130			
Chlorobenzene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			
Chloroethane	0.0493	0.0100	mg/kg wet	0.05000		99	40-160			
Chloroform	0.0519	0.0050	mg/kg wet	0.05000		104	70-130			
Chloromethane	0.0452	0.0100	mg/kg wet	0.05000		90	40-160			
cis-1,2-Dichloroethene	0.0530	0.0050	mg/kg wet	0.05000		106	70-130			
cis-1,3-Dichloropropene	0.0562	0.0050	mg/kg wet	0.05000		112	40-160			
Dibromochloromethane	0.0526	0.0050	mg/kg wet	0.05000		105	40-160			
Dibromomethane	0.0530	0.0050	mg/kg wet	0.05000		106	70-130			

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Volatile Organics Low Level

Batch DC51123 - 5035

Dichlorodifluoromethane	0.0355	0.0100	mg/kg wet	0.05000		71	40-160			
Diethyl Ether	0.0546	0.0050	mg/kg wet	0.05000		109	70-130			
Di-isopropyl ether	0.0582	0.0050	mg/kg wet	0.05000		116	70-130			
Ethyl tertiary-butyl ether	0.0587	0.0050	mg/kg wet	0.05000		117	70-130			
Ethylbenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
Hexachlorobutadiene	0.0477	0.0050	mg/kg wet	0.05000		95	40-160			
Isopropylbenzene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130			
Methyl tert-Butyl Ether	0.0562	0.0050	mg/kg wet	0.05000		112	70-130			
Methylene Chloride	0.0512	0.0250	mg/kg wet	0.05000		102	70-130			
Naphthalene	0.0535	0.0050	mg/kg wet	0.05000		107	40-160			
n-Butylbenzene	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
n-Propylbenzene	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
sec-Butylbenzene	0.0440	0.0050	mg/kg wet	0.05000		88	70-130			
Styrene	0.0498	0.0050	mg/kg wet	0.05000		100	40-160			
tert-Butylbenzene	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
Tertiary-amyl methyl ether	0.0581	0.0050	mg/kg wet	0.05000		116	70-130			
Tetrachloroethene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130			
Tetrahydrofuran	0.0482	0.0200	mg/kg wet	0.05000		96	70-130			
Toluene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130			
trans-1,2-Dichloroethene	0.0500	0.0050	mg/kg wet	0.05000		100	70-130			
trans-1,3-Dichloropropene	0.0559	0.0050	mg/kg wet	0.05000		112	70-130			
Trichloroethene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130			
Trichlorofluoromethane	0.0426	0.0050	mg/kg wet	0.05000		85	40-160			
Vinyl Chloride	0.0459	0.0100	mg/kg wet	0.05000		92	70-130			
Xylene O	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
Xylene P,M	0.0943	0.0100	mg/kg wet	0.1000		94	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0504		mg/kg wet	0.05000		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.0500		mg/kg wet	0.05000		100	70-130			
Surrogate: Dibromofluoromethane	0.0516		mg/kg wet	0.05000		103	70-130			
Surrogate: Toluene-d8	0.0494		mg/kg wet	0.05000		99	70-130			

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1,1,1,2-Tetrachloroethane	0.0532	0.0050	mg/kg wet	0.05000		106	70-130	3	20	
1,1,1-Trichloroethane	0.0521	0.0050	mg/kg wet	0.05000		104	70-130	1	20	
1,1,2,2-Tetrachloroethane	0.0444	0.0050	mg/kg wet	0.05000		89	40-160	1	20	
1,1,2-Trichloroethane	0.0515	0.0050	mg/kg wet	0.05000		103	70-130	0.7	20	
1,1-Dichloroethane	0.0530	0.0050	mg/kg wet	0.05000		106	70-130	1	20	
1,1-Dichloroethene	0.0508	0.0050	mg/kg wet	0.05000		102	70-130	1	20	
1,1-Dichloropropene	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	1	20	
1,2,3-Trichlorobenzene	0.0524	0.0050	mg/kg wet	0.05000		105	70-130	2	20	
1,2,3-Trichloropropane	0.0454	0.0050	mg/kg wet	0.05000		91	70-130	1	20	
1,2,4-Trichlorobenzene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130	2	20	
1,2,4-Trimethylbenzene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	2	20	
1,2-Dibromo-3-Chloropropane	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	0.8	20	
1,2-Dibromoethane	0.0521	0.0050	mg/kg wet	0.05000		104	70-130	3	20	
1,2-Dichlorobenzene	0.0477	0.0050	mg/kg wet	0.05000		95	70-130	2	20	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Volatile Organics Low Level

Batch DC51123 - 5035

1,2-Dichloroethane	0.0524	0.0050	mg/kg wet	0.05000		105	70-130	0.1	20	
1,2-Dichloropropane	0.0534	0.0050	mg/kg wet	0.05000		107	70-130	0.6	20	
1,3,5-Trimethylbenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	2	20	
1,3-Dichlorobenzene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	2	20	
1,3-Dichloropropane	0.0519	0.0050	mg/kg wet	0.05000		104	70-130	3	20	
1,4-Dichlorobenzene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130	1	20	
1,4-Dioxane	0.997	0.100	mg/kg wet	1.000		100	70-130	6	20	
2,2-Dichloropropane	0.0542	0.0050	mg/kg wet	0.05000		108	70-130	1	20	
2-Butanone	0.316	0.0500	mg/kg wet	0.2500		127	40-160	0.8	20	
2-Chlorotoluene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	2	20	
2-Hexanone	0.221	0.0500	mg/kg wet	0.2500		89	40-160	1	20	
4-Chlorotoluene	0.0480	0.0050	mg/kg wet	0.05000		96	70-130	2	20	
4-Isopropyltoluene	0.0461	0.0050	mg/kg wet	0.05000		92	70-130	3	20	
4-Methyl-2-Pentanone	0.228	0.0500	mg/kg wet	0.2500		91	40-160	0.08	20	
Acetone	0.204	0.0500	mg/kg wet	0.2500		82	40-160	4	20	
Benzene	0.0525	0.0050	mg/kg wet	0.05000		105	70-130	1	20	
Bromobenzene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	2	20	
Bromochloromethane	0.0551	0.0050	mg/kg wet	0.05000		110	70-130	0.9	20	
Bromodichloromethane	0.0550	0.0050	mg/kg wet	0.05000		110	70-130	0.5	20	
Bromoform	0.0533	0.0050	mg/kg wet	0.05000		107	40-160	2	20	
Bromomethane	0.0511	0.0100	mg/kg wet	0.05000		102	40-160	0.4	20	
Carbon Disulfide	0.0519	0.0050	mg/kg wet	0.05000		104	70-130	1	20	
Carbon Tetrachloride	0.0534	0.0050	mg/kg wet	0.05000		107	70-130	1	20	
Chlorobenzene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130	3	20	
Chloroethane	0.0502	0.0100	mg/kg wet	0.05000		100	40-160	2	20	
Chloroform	0.0520	0.0050	mg/kg wet	0.05000		104	70-130	0.2	20	
Chloromethane	0.0450	0.0100	mg/kg wet	0.05000		90	40-160	0.5	20	
cis-1,2-Dichloroethene	0.0536	0.0050	mg/kg wet	0.05000		107	70-130	1	20	
cis-1,3-Dichloropropene	0.0566	0.0050	mg/kg wet	0.05000		113	40-160	0.7	20	
Dibromochloromethane	0.0541	0.0050	mg/kg wet	0.05000		108	40-160	3	20	
Dibromomethane	0.0531	0.0050	mg/kg wet	0.05000		106	70-130	0.2	20	
Dichlorodifluoromethane	0.0354	0.0100	mg/kg wet	0.05000		71	40-160	0.4	20	
Diethyl Ether	0.0550	0.0050	mg/kg wet	0.05000		110	70-130	0.7	20	
Di-isopropyl ether	0.0584	0.0050	mg/kg wet	0.05000		117	70-130	0.4	20	
Ethyl tertiary-butyl ether	0.0594	0.0050	mg/kg wet	0.05000		119	70-130	1	20	
Ethylbenzene	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	3	20	
Hexachlorobutadiene	0.0491	0.0050	mg/kg wet	0.05000		98	40-160	3	20	
Isopropylbenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	3	20	
Methyl tert-Butyl Ether	0.0564	0.0050	mg/kg wet	0.05000		113	70-130	0.3	20	
Methylene Chloride	0.0518	0.0250	mg/kg wet	0.05000		104	70-130	1	20	
Naphthalene	0.0547	0.0050	mg/kg wet	0.05000		109	40-160	2	20	
n-Butylbenzene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130	2	20	
n-Propylbenzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	2	20	
sec-Butylbenzene	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	2	20	
Styrene	0.0518	0.0050	mg/kg wet	0.05000		104	40-160	4	20	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Volatile Organics Low Level

Batch DC51123 - 5035

tert-Butylbenzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	3	20	
Tertiary-amyl methyl ether	0.0589	0.0050	mg/kg wet	0.05000		118	70-130	1	20	
Tetrachloroethene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130	3	20	
Tetrahydrofuran	0.0467	0.0200	mg/kg wet	0.05000		93	70-130	3	20	
Toluene	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	0.9	20	
trans-1,2-Dichloroethene	0.0504	0.0050	mg/kg wet	0.05000		101	70-130	0.9	20	
trans-1,3-Dichloropropene	0.0561	0.0050	mg/kg wet	0.05000		112	70-130	0.4	20	
Trichloroethene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	2	20	
Trichlorofluoromethane	0.0427	0.0050	mg/kg wet	0.05000		85	40-160	0.3	20	
Vinyl Chloride	0.0456	0.0100	mg/kg wet	0.05000		91	70-130	0.7	20	
Xylene O	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	4	20	
Xylene P,M	0.0971	0.0100	mg/kg wet	0.1000		97	70-130	3	20	
Surrogate: 1,2-Dichloroethane-d4	0.0492		mg/kg wet	0.05000		98	70-130			
Surrogate: 4-Bromofluorobenzene	0.0505		mg/kg wet	0.05000		101	70-130			
Surrogate: Dibromofluoromethane	0.0506		mg/kg wet	0.05000		101	70-130			
Surrogate: Toluene-d8	0.0497		mg/kg wet	0.05000		99	70-130			

Semi-Volatile Organic Compounds

Batch DC50743 - 3546

Blank										
1,1-Biphenyl	ND	0.025	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.250	mg/kg wet							
1,2-Dichlorobenzene	ND	0.250	mg/kg wet							
1,3-Dichlorobenzene	ND	0.250	mg/kg wet							
1,4-Dichlorobenzene	ND	0.125	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.250	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.125	mg/kg wet							
2,4-Dichlorophenol	ND	0.125	mg/kg wet							
2,4-Dimethylphenol	ND	0.175	mg/kg wet							
2,4-Dinitrophenol	ND	0.500	mg/kg wet							
2,4-Dinitrotoluene	ND	0.125	mg/kg wet							
2,6-Dinitrotoluene	ND	0.250	mg/kg wet							
2-Chloronaphthalene	ND	0.250	mg/kg wet							
2-Chlorophenol	ND	0.125	mg/kg wet							
2-Methylnaphthalene	ND	0.125	mg/kg wet							
2-Methylphenol	ND	0.250	mg/kg wet							
2-Nitrophenol	ND	0.500	mg/kg wet							
3,3'-Dichlorobenzidine	ND	0.250	mg/kg wet							
3+4-Methylphenol	ND	0.250	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.250	mg/kg wet							
4-Chloroaniline	ND	0.250	mg/kg wet							
4-Nitrophenol	ND	1.00	mg/kg wet							
Acenaphthene	ND	0.250	mg/kg wet							
Acenaphthylene	ND	0.250	mg/kg wet							
Acetophenone	ND	0.250	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Semi-Volatile Organic Compounds

Batch DC50743 - 3546

Aniline	ND	0.250	mg/kg wet							
Anthracene	ND	0.250	mg/kg wet							
Azobenzene	ND	0.250	mg/kg wet							
Benzo(a)anthracene	ND	0.250	mg/kg wet							
Benzo(a)pyrene	ND	0.250	mg/kg wet							
Benzo(b)fluoranthene	ND	0.250	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.250	mg/kg wet							
Benzo(k)fluoranthene	ND	0.250	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.250	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.125	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.125	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.250	mg/kg wet							
Butylbenzylphthalate	ND	0.250	mg/kg wet							
Chrysene	ND	0.250	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.125	mg/kg wet							
Dibenzofuran	ND	0.250	mg/kg wet							
Diethylphthalate	ND	0.250	mg/kg wet							
Dimethylphthalate	ND	0.250	mg/kg wet							
Di-n-butylphthalate	ND	0.250	mg/kg wet							
Di-n-octylphthalate	ND	0.500	mg/kg wet							
Fluoranthene	ND	0.250	mg/kg wet							
Fluorene	ND	0.250	mg/kg wet							
Hexachlorobenzene	ND	0.125	mg/kg wet							
Hexachlorobutadiene	ND	0.250	mg/kg wet							
Hexachloroethane	ND	0.125	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.250	mg/kg wet							
Isophorone	ND	0.250	mg/kg wet							
Naphthalene	ND	0.250	mg/kg wet							
Nitrobenzene	ND	0.250	mg/kg wet							
N-Nitrosodimethylamine	ND	0.250	mg/kg wet							
Pentachlorophenol	ND	0.500	mg/kg wet							
Phenanthrene	ND	0.250	mg/kg wet							
Phenol	ND	0.250	mg/kg wet							
Pyrene	ND	0.250	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	2.07		mg/kg wet	2.500		83	30-130			
Surrogate: 2,4,6-Tribromophenol	3.11		mg/kg wet	3.750		83	30-130			
Surrogate: 2-Chlorophenol-d4	2.97		mg/kg wet	3.750		79	30-130			
Surrogate: 2-Fluorobiphenyl	1.91		mg/kg wet	2.500		76	30-130			
Surrogate: 2-Fluorophenol	2.99		mg/kg wet	3.750		80	30-130			
Surrogate: Nitrobenzene-d5	1.89		mg/kg wet	2.500		76	30-130			
Surrogate: Phenol-d6	3.09		mg/kg wet	3.750		82	30-130			
Surrogate: p-Terphenyl-d14	2.06		mg/kg wet	2.500		82	30-130			

LCS

1,1-Biphenyl	2.18	0.025	mg/kg wet	2.500		87	40-140			
1,2,4-Trichlorobenzene	2.29	0.250	mg/kg wet	2.500		92	40-140			

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Semi-Volatile Organic Compounds

Batch DC50743 - 3546

1,2-Dichlorobenzene	2.12	0.250	mg/kg wet	2.500		85	40-140			
1,3-Dichlorobenzene	2.13	0.250	mg/kg wet	2.500		85	40-140			
1,4-Dichlorobenzene	2.23	0.125	mg/kg wet	2.500		89	40-140			
2,4,5-Trichlorophenol	2.36	0.250	mg/kg wet	2.500		94	30-130			
2,4,6-Trichlorophenol	2.24	0.125	mg/kg wet	2.500		90	30-130			
2,4-Dichlorophenol	2.28	0.125	mg/kg wet	2.500		91	30-130			
2,4-Dimethylphenol	2.14	0.175	mg/kg wet	2.500		86	30-130			
2,4-Dinitrophenol	1.88	0.500	mg/kg wet	2.500		75	15-140			
2,4-Dinitrotoluene	2.44	0.125	mg/kg wet	2.500		97	40-140			
2,6-Dinitrotoluene	2.31	0.250	mg/kg wet	2.500		92	40-140			
2-Chloronaphthalene	2.22	0.250	mg/kg wet	2.500		89	40-140			
2-Chlorophenol	2.32	0.125	mg/kg wet	2.500		93	30-130			
2-Methylnaphthalene	2.31	0.125	mg/kg wet	2.500		92	40-140			
2-Methylphenol	2.32	0.250	mg/kg wet	2.500		93	15-140			
2-Nitrophenol	2.24	0.500	mg/kg wet	2.500		90	30-130			
3,3'-Dichlorobenzidine	2.07	0.250	mg/kg wet	2.500		83	40-140			
3+4-Methylphenol	2.29	0.250	mg/kg wet	2.500		92	15-140			
4-Bromophenyl-phenylether	2.06	0.250	mg/kg wet	2.500		82	40-140			
4-Chloroaniline	1.61	0.250	mg/kg wet	2.500		64	15-140			
4-Nitrophenol	1.78	1.00	mg/kg wet	2.500		71	15-140			
Acenaphthene	2.19	0.250	mg/kg wet	2.500		88	40-140			
Acenaphthylene	2.33	0.250	mg/kg wet	2.500		93	40-140			
Acetophenone	2.15	0.250	mg/kg wet	2.500		86	40-140			
Aniline	1.45	0.250	mg/kg wet	2.500		58	40-140			
Anthracene	2.36	0.250	mg/kg wet	2.500		95	40-140			
Azobenzene	2.03	0.250	mg/kg wet	2.500		81	40-140			
Benzo(a)anthracene	2.23	0.250	mg/kg wet	2.500		89	40-140			
Benzo(a)pyrene	2.46	0.250	mg/kg wet	2.500		98	40-140			
Benzo(b)fluoranthene	2.33	0.250	mg/kg wet	2.500		93	40-140			
Benzo(g,h,i)perylene	2.30	0.250	mg/kg wet	2.500		92	40-140			
Benzo(k)fluoranthene	2.41	0.250	mg/kg wet	2.500		97	40-140			
bis(2-Chloroethoxy)methane	2.15	0.250	mg/kg wet	2.500		86	40-140			
bis(2-Chloroethyl)ether	2.06	0.125	mg/kg wet	2.500		82	40-140			
bis(2-chloroisopropyl)Ether	2.19	0.125	mg/kg wet	2.500		88	40-140			
bis(2-Ethylhexyl)phthalate	2.34	0.250	mg/kg wet	2.500		94	40-140			
Butylbenzylphthalate	2.29	0.250	mg/kg wet	2.500		91	40-140			
Chrysene	2.30	0.250	mg/kg wet	2.500		92	40-140			
Dibenzo(a,h)Anthracene	2.41	0.125	mg/kg wet	2.500		96	40-140			
Dibenzofuran	2.33	0.250	mg/kg wet	2.500		93	40-140			
Diethylphthalate	2.34	0.250	mg/kg wet	2.500		94	40-140			
Dimethylphthalate	2.22	0.250	mg/kg wet	2.500		89	15-140			
Di-n-butylphthalate	2.37	0.250	mg/kg wet	2.500		95	40-140			
Di-n-octylphthalate	2.32	0.500	mg/kg wet	2.500		93	40-140			
Fluoranthene	2.54	0.250	mg/kg wet	2.500		102	40-140			
Fluorene	2.43	0.250	mg/kg wet	2.500		97	40-140			

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Semi-Volatile Organic Compounds

Batch DC50743 - 3546

Hexachlorobenzene	2.19	0.125	mg/kg wet	2.500		88	40-140			
Hexachlorobutadiene	2.31	0.250	mg/kg wet	2.500		92	40-140			
Hexachloroethane	2.20	0.125	mg/kg wet	2.500		88	40-140			
Indeno(1,2,3-cd)Pyrene	2.32	0.250	mg/kg wet	2.500		93	40-140			
Isophorone	2.22	0.250	mg/kg wet	2.500		89	40-140			
Naphthalene	2.17	0.250	mg/kg wet	2.500		87	40-140			
Nitrobenzene	2.06	0.250	mg/kg wet	2.500		82	40-140			
N-Nitrosodimethylamine	1.80	0.250	mg/kg wet	2.500		72	40-140			
Pentachlorophenol	1.78	0.500	mg/kg wet	2.500		71	15-140			
Phenanthrene	2.30	0.250	mg/kg wet	2.500		92	40-140			
Phenol	2.39	0.250	mg/kg wet	2.500		96	15-140			
Pyrene	2.10	0.250	mg/kg wet	2.500		84	40-140			
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>2.44</i>		mg/kg wet	<i>2.500</i>		<i>98</i>	<i>30-130</i>			
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>3.49</i>		mg/kg wet	<i>3.750</i>		<i>93</i>	<i>30-130</i>			
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>3.63</i>		mg/kg wet	<i>3.750</i>		<i>97</i>	<i>30-130</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>2.26</i>		mg/kg wet	<i>2.500</i>		<i>91</i>	<i>30-130</i>			
<i>Surrogate: 2-Fluorophenol</i>	<i>3.65</i>		mg/kg wet	<i>3.750</i>		<i>97</i>	<i>30-130</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>2.16</i>		mg/kg wet	<i>2.500</i>		<i>86</i>	<i>30-130</i>			
<i>Surrogate: Phenol-d6</i>	<i>3.73</i>		mg/kg wet	<i>3.750</i>		<i>99</i>	<i>30-130</i>			
<i>Surrogate: p-Terphenyl-d14</i>	<i>2.25</i>		mg/kg wet	<i>2.500</i>		<i>90</i>	<i>30-130</i>			

LCS Dup

1,1-Biphenyl	2.43	0.025	mg/kg wet	2.500		97	40-140	10	30	
1,2,4-Trichlorobenzene	2.44	0.250	mg/kg wet	2.500		97	40-140	6	30	
1,2-Dichlorobenzene	2.23	0.250	mg/kg wet	2.500		89	40-140	5	30	
1,3-Dichlorobenzene	2.31	0.250	mg/kg wet	2.500		92	40-140	8	30	
1,4-Dichlorobenzene	2.29	0.125	mg/kg wet	2.500		92	40-140	3	30	
2,4,5-Trichlorophenol	2.67	0.250	mg/kg wet	2.500		107	30-130	12	30	
2,4,6-Trichlorophenol	2.51	0.125	mg/kg wet	2.500		100	30-130	11	30	
2,4-Dichlorophenol	2.52	0.125	mg/kg wet	2.500		101	30-130	10	30	
2,4-Dimethylphenol	2.29	0.175	mg/kg wet	2.500		91	30-130	6	30	
2,4-Dinitrophenol	1.93	0.500	mg/kg wet	2.500		77	15-140	3	30	
2,4-Dinitrotoluene	2.65	0.125	mg/kg wet	2.500		106	40-140	9	30	
2,6-Dinitrotoluene	2.54	0.250	mg/kg wet	2.500		101	40-140	10	30	
2-Chloronaphthalene	2.43	0.250	mg/kg wet	2.500		97	40-140	9	30	
2-Chlorophenol	2.41	0.125	mg/kg wet	2.500		96	30-130	4	30	
2-Methylnaphthalene	2.43	0.125	mg/kg wet	2.500		97	40-140	5	30	
2-Methylphenol	2.40	0.250	mg/kg wet	2.500		96	15-140	3	30	
2-Nitrophenol	2.36	0.500	mg/kg wet	2.500		94	30-130	5	30	
3,3'-Dichlorobenzidine	2.18	0.250	mg/kg wet	2.500		87	40-140	5	30	
3+4-Methylphenol	2.34	0.250	mg/kg wet	2.500		94	15-140	2	30	
4-Bromophenyl-phenylether	2.18	0.250	mg/kg wet	2.500		87	40-140	6	30	
4-Chloroaniline	1.78	0.250	mg/kg wet	2.500		71	15-140	10	30	
4-Nitrophenol	1.89	1.00	mg/kg wet	2.500		76	15-140	6	30	
Acenaphthene	2.33	0.250	mg/kg wet	2.500		93	40-140	6	30	
Acenaphthylene	2.58	0.250	mg/kg wet	2.500		103	40-140	10	30	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Semi-Volatile Organic Compounds

Batch DC50743 - 3546

Acetophenone	2.22	0.250	mg/kg wet	2.500		89	40-140	3	30	
Aniline	1.54	0.250	mg/kg wet	2.500		62	40-140	7	30	
Anthracene	2.51	0.250	mg/kg wet	2.500		100	40-140	6	30	
Azobenzene	2.01	0.250	mg/kg wet	2.500		80	40-140	1	30	
Benzo(a)anthracene	2.39	0.250	mg/kg wet	2.500		96	40-140	7	30	
Benzo(a)pyrene	2.61	0.250	mg/kg wet	2.500		104	40-140	6	30	
Benzo(b)fluoranthene	2.48	0.250	mg/kg wet	2.500		99	40-140	6	30	
Benzo(g,h,i)perylene	2.43	0.250	mg/kg wet	2.500		97	40-140	6	30	
Benzo(k)fluoranthene	2.58	0.250	mg/kg wet	2.500		103	40-140	7	30	
bis(2-Chloroethoxy)methane	2.23	0.250	mg/kg wet	2.500		89	40-140	4	30	
bis(2-Chloroethyl)ether	2.11	0.125	mg/kg wet	2.500		84	40-140	2	30	
bis(2-chloroisopropyl)Ether	2.29	0.125	mg/kg wet	2.500		91	40-140	4	30	
bis(2-Ethylhexyl)phthalate	2.53	0.250	mg/kg wet	2.500		101	40-140	8	30	
Butylbenzylphthalate	2.47	0.250	mg/kg wet	2.500		99	40-140	8	30	
Chrysene	2.48	0.250	mg/kg wet	2.500		99	40-140	7	30	
Dibenzo(a,h)Anthracene	2.57	0.125	mg/kg wet	2.500		103	40-140	6	30	
Dibenzofuran	2.56	0.250	mg/kg wet	2.500		103	40-140	10	30	
Diethylphthalate	2.47	0.250	mg/kg wet	2.500		99	40-140	5	30	
Dimethylphthalate	2.45	0.250	mg/kg wet	2.500		98	15-140	10	30	
Di-n-butylphthalate	2.50	0.250	mg/kg wet	2.500		100	40-140	5	30	
Di-n-octylphthalate	2.46	0.500	mg/kg wet	2.500		99	40-140	6	30	
Fluoranthene	2.68	0.250	mg/kg wet	2.500		107	40-140	6	30	
Fluorene	2.69	0.250	mg/kg wet	2.500		108	40-140	10	30	
Hexachlorobenzene	2.34	0.125	mg/kg wet	2.500		94	40-140	7	30	
Hexachlorobutadiene	2.41	0.250	mg/kg wet	2.500		96	40-140	4	30	
Hexachloroethane	2.26	0.125	mg/kg wet	2.500		91	40-140	3	30	
Indeno(1,2,3-cd)Pyrene	2.47	0.250	mg/kg wet	2.500		99	40-140	6	30	
Isophorone	2.32	0.250	mg/kg wet	2.500		93	40-140	5	30	
Naphthalene	2.31	0.250	mg/kg wet	2.500		92	40-140	6	30	
Nitrobenzene	2.16	0.250	mg/kg wet	2.500		87	40-140	5	30	
N-Nitrosodimethylamine	1.73	0.250	mg/kg wet	2.500		69	40-140	4	30	
Pentachlorophenol	1.89	0.500	mg/kg wet	2.500		76	15-140	6	30	
Phenanthrene	2.42	0.250	mg/kg wet	2.500		97	40-140	5	30	
Phenol	2.45	0.250	mg/kg wet	2.500		98	15-140	3	30	
Pyrene	2.36	0.250	mg/kg wet	2.500		94	40-140	12	30	
Surrogate: 1,2-Dichlorobenzene-d4	2.39		mg/kg wet	2.500		96	30-130			
Surrogate: 2,4,6-Tribromophenol	3.53		mg/kg wet	3.750		94	30-130			
Surrogate: 2-Chlorophenol-d4	3.67		mg/kg wet	3.750		98	30-130			
Surrogate: 2-Fluorobiphenyl	2.41		mg/kg wet	2.500		97	30-130			
Surrogate: 2-Fluorophenol	3.63		mg/kg wet	3.750		97	30-130			
Surrogate: Nitrobenzene-d5	2.16		mg/kg wet	2.500		86	30-130			
Surrogate: Phenol-d6	3.67		mg/kg wet	3.750		98	30-130			
Surrogate: p-Terphenyl-d14	2.36		mg/kg wet	2.500		94	30-130			

MADEP-EPH Extractable Petroleum Hydrocarbons

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch DC51006 - 3546										
Blank										
C19-C36 Aliphatics1	ND	10.0	mg/kg wet							
C9-C18 Aliphatics1	ND	10.0	mg/kg wet							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>1.36</i>		mg/kg wet	<i>2.000</i>		<i>68</i>	<i>40-140</i>			
Blank										
C11-C22 Unadjusted Aromatics1	ND	10.0	mg/kg wet							
<i>Surrogate: 2-Bromonaphthalene</i>	<i>2.06</i>		mg/kg wet	<i>2.000</i>		<i>103</i>	<i>40-140</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.97</i>		mg/kg wet	<i>2.000</i>		<i>98</i>	<i>40-140</i>			
<i>Surrogate: O-Terphenyl</i>	<i>1.63</i>		mg/kg wet	<i>2.000</i>		<i>81</i>	<i>40-140</i>			
Blank										
2-Methylnaphthalene	ND	0.008	mg/kg wet							
Acenaphthene	ND	0.008	mg/kg wet							
Acenaphthylene	ND	0.008	mg/kg wet							
Anthracene	ND	0.008	mg/kg wet							
Benzo(a)anthracene	ND	0.008	mg/kg wet							
Benzo(a)pyrene	ND	0.008	mg/kg wet							
Benzo(b)fluoranthene	ND	0.008	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.008	mg/kg wet							
Benzo(k)fluoranthene	ND	0.008	mg/kg wet							
Chrysene	ND	0.008	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.008	mg/kg wet							
Fluoranthene	ND	0.008	mg/kg wet							
Fluorene	ND	0.008	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.008	mg/kg wet							
Naphthalene	ND	0.008	mg/kg wet							
Phenanthrene	ND	0.008	mg/kg wet							
Pyrene	ND	0.008	mg/kg wet							
LCS										
C19-C36 Aliphatics1	15.8	10.0	mg/kg wet	16.00		99	40-140			
C9-C18 Aliphatics1	8.9	10.0	mg/kg wet	12.00		74	40-140			
<i>Surrogate: 1-Chlorooctadecane</i>	<i>1.59</i>		mg/kg wet	<i>2.000</i>		<i>80</i>	<i>40-140</i>			
LCS										
C11-C22 Unadjusted Aromatics1	26.8	10.0	mg/kg wet	34.00		79	40-140			
<i>Surrogate: 2-Bromonaphthalene</i>	<i>1.99</i>		mg/kg wet	<i>2.000</i>		<i>100</i>	<i>40-140</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1.94</i>		mg/kg wet	<i>2.000</i>		<i>97</i>	<i>40-140</i>			
<i>Surrogate: O-Terphenyl</i>	<i>1.64</i>		mg/kg wet	<i>2.000</i>		<i>82</i>	<i>40-140</i>			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS										
2-Methylnaphthalene	1.42	0.040	mg/kg wet	2.000		71	40-140			
Acenaphthene	1.42	0.040	mg/kg wet	2.000		71	40-140			
Acenaphthylene	1.42	0.040	mg/kg wet	2.000		71	40-140			

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

MADEP-EPH Extractable Petroleum Hydrocarbons

Batch DC51006 - 3546

Anthracene	1.58	0.040	mg/kg wet	2.000		79	40-140			
Benzo(a)anthracene	1.54	0.040	mg/kg wet	2.000		77	40-140			
Benzo(a)pyrene	1.47	0.040	mg/kg wet	2.000		73	40-140			
Benzo(b)fluoranthene	1.46	0.040	mg/kg wet	2.000		73	40-140			
Benzo(g,h,i)perylene	1.59	0.040	mg/kg wet	2.000		80	40-140			
Benzo(k)fluoranthene	1.66	0.040	mg/kg wet	2.000		83	40-140			
Chrysene	1.70	0.040	mg/kg wet	2.000		85	40-140			
Dibenzo(a,h)Anthracene	1.53	0.040	mg/kg wet	2.000		76	40-140			
Fluoranthene	1.74	0.040	mg/kg wet	2.000		87	40-140			
Fluorene	1.53	0.040	mg/kg wet	2.000		76	40-140			
Indeno(1,2,3-cd)Pyrene	1.49	0.040	mg/kg wet	2.000		75	40-140			
Naphthalene	1.21	0.040	mg/kg wet	2.000		61	40-140			
Phenanthrene	1.46	0.040	mg/kg wet	2.000		73	40-140			
Pyrene	1.59	0.040	mg/kg wet	2.000		80	40-140			

LCS Dup

C19-C36 Aliphatics1	16.9	10.0	mg/kg wet	16.00		105	40-140	6	25	
C9-C18 Aliphatics1	9.5	10.0	mg/kg wet	12.00		79	40-140	7	25	
Surrogate: 1-Chlorooctadecane	1.69		mg/kg wet	2.000		85	40-140			

LCS Dup

C11-C22 Unadjusted Aromatics1	27.7	10.0	mg/kg wet	34.00		82	40-140	3	25	
Surrogate: 2-Bromonaphthalene	2.00		mg/kg wet	2.000		100	40-140			
Surrogate: 2-Fluorobiphenyl	1.96		mg/kg wet	2.000		98	40-140			
Surrogate: O-Terphenyl	1.75		mg/kg wet	2.000		88	40-140			

LCS Dup

2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

LCS Dup

2-Methylnaphthalene	1.52	0.040	mg/kg wet	2.000		76	40-140	7	30	
Acenaphthene	1.51	0.040	mg/kg wet	2.000		76	40-140	7	30	
Acenaphthylene	1.56	0.040	mg/kg wet	2.000		78	40-140	9	30	
Anthracene	1.69	0.040	mg/kg wet	2.000		85	40-140	7	30	
Benzo(a)anthracene	1.67	0.040	mg/kg wet	2.000		84	40-140	8	30	
Benzo(a)pyrene	1.58	0.040	mg/kg wet	2.000		79	40-140	7	30	
Benzo(b)fluoranthene	1.53	0.040	mg/kg wet	2.000		76	40-140	5	30	
Benzo(g,h,i)perylene	1.66	0.040	mg/kg wet	2.000		83	40-140	4	30	
Benzo(k)fluoranthene	1.80	0.040	mg/kg wet	2.000		90	40-140	8	30	
Chrysene	1.76	0.040	mg/kg wet	2.000		88	40-140	3	30	
Dibenzo(a,h)Anthracene	1.61	0.040	mg/kg wet	2.000		81	40-140	5	30	
Fluoranthene	1.84	0.040	mg/kg wet	2.000		92	40-140	6	30	
Fluorene	1.64	0.040	mg/kg wet	2.000		82	40-140	7	30	
Indeno(1,2,3-cd)Pyrene	1.57	0.040	mg/kg wet	2.000		79	40-140	5	30	
Naphthalene	1.27	0.040	mg/kg wet	2.000		63	40-140	5	30	
Phenanthrene	1.57	0.040	mg/kg wet	2.000		78	40-140	7	30	
Pyrene	1.70	0.040	mg/kg wet	2.000		85	40-140	6	30	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

8081B Organochlorine Pesticides

Batch DC51003 - 3546

Blank

4,4'-DDD	ND	0.0025	mg/kg wet							
4,4'-DDD [2C]	ND	0.0025	mg/kg wet							
4,4'-DDE	ND	0.0025	mg/kg wet							
4,4'-DDE [2C]	ND	0.0025	mg/kg wet							
4,4'-DDT	ND	0.0025	mg/kg wet							
4,4'-DDT [2C]	ND	0.0025	mg/kg wet							
Aldrin	ND	0.0025	mg/kg wet							
Aldrin [2C]	ND	0.0025	mg/kg wet							
alpha-BHC	ND	0.0025	mg/kg wet							
alpha-BHC [2C]	ND	0.0025	mg/kg wet							
alpha-Chlordane	ND	0.0025	mg/kg wet							
alpha-Chlordane [2C]	ND	0.0025	mg/kg wet							
beta-BHC	ND	0.0025	mg/kg wet							
beta-BHC [2C]	ND	0.0025	mg/kg wet							
Chlordane (Total)	ND	0.0200	mg/kg wet							
Chlordane (Total) [2C]	ND	0.0200	mg/kg wet							
delta-BHC	ND	0.0025	mg/kg wet							
delta-BHC [2C]	ND	0.0025	mg/kg wet							
Dieldrin	ND	0.0025	mg/kg wet							
Dieldrin [2C]	ND	0.0025	mg/kg wet							
Endosulfan I	ND	0.0025	mg/kg wet							
Endosulfan I [2C]	ND	0.0025	mg/kg wet							
Endosulfan II	ND	0.0025	mg/kg wet							
Endosulfan II [2C]	ND	0.0025	mg/kg wet							
Endosulfan Sulfate	ND	0.0025	mg/kg wet							
Endosulfan Sulfate [2C]	ND	0.0025	mg/kg wet							
Endrin	ND	0.0025	mg/kg wet							
Endrin [2C]	ND	0.0025	mg/kg wet							
Endrin Ketone	ND	0.0025	mg/kg wet							
Endrin Ketone [2C]	ND	0.0025	mg/kg wet							
gamma-BHC (Lindane)	ND	0.0015	mg/kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0015	mg/kg wet							
gamma-Chlordane	ND	0.0025	mg/kg wet							
gamma-Chlordane [2C]	ND	0.0025	mg/kg wet							
Heptachlor	ND	0.0025	mg/kg wet							
Heptachlor [2C]	ND	0.0025	mg/kg wet							
Heptachlor Epoxide	ND	0.0025	mg/kg wet							
Heptachlor Epoxide [2C]	ND	0.0025	mg/kg wet							
Hexachlorobenzene	ND	0.0025	mg/kg wet							
Hexachlorobenzene [2C]	ND	0.0025	mg/kg wet							
Methoxychlor	ND	0.0025	mg/kg wet							
Methoxychlor [2C]	ND	0.0025	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.00921	mg/kg wet	0.01250	74	30-150
Surrogate: Decachlorobiphenyl [2C]	0.00967	mg/kg wet	0.01250	77	30-150

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CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

8081B Organochlorine Pesticides

Batch DC51003 - 3546

Surrogate: Tetrachloro-m-xylene	0.00780		mg/kg wet	0.01250		62	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.00846		mg/kg wet	0.01250		68	30-150			

LCS

4,4'-DDD	0.0136	0.0025	mg/kg wet	0.01250		109	40-140			
4,4'-DDD [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			
4,4'-DDE	0.0116	0.0025	mg/kg wet	0.01250		93	40-140			
4,4'-DDE [2C]	0.0117	0.0025	mg/kg wet	0.01250		94	40-140			
4,4'-DDT	0.0130	0.0025	mg/kg wet	0.01250		104	40-140			
4,4'-DDT [2C]	0.0132	0.0025	mg/kg wet	0.01250		106	40-140			
Aldrin	0.0098	0.0025	mg/kg wet	0.01250		78	40-140			
Aldrin [2C]	0.0102	0.0025	mg/kg wet	0.01250		81	40-140			
alpha-BHC	0.0095	0.0025	mg/kg wet	0.01250		76	40-140			
alpha-BHC [2C]	0.0101	0.0025	mg/kg wet	0.01250		81	40-140			
alpha-Chlordane	0.0108	0.0025	mg/kg wet	0.01250		86	40-140			
alpha-Chlordane [2C]	0.0114	0.0025	mg/kg wet	0.01250		91	40-140			
beta-BHC	0.0105	0.0025	mg/kg wet	0.01250		84	40-140			
beta-BHC [2C]	0.0109	0.0025	mg/kg wet	0.01250		87	40-140			
delta-BHC	0.0103	0.0025	mg/kg wet	0.01250		82	40-140			
delta-BHC [2C]	0.0103	0.0025	mg/kg wet	0.01250		82	40-140			
Dieldrin	0.0121	0.0025	mg/kg wet	0.01250		97	40-140			
Dieldrin [2C]	0.0123	0.0025	mg/kg wet	0.01250		99	40-140			
Endosulfan I	0.0104	0.0025	mg/kg wet	0.01250		83	40-140			
Endosulfan I [2C]	0.0108	0.0025	mg/kg wet	0.01250		86	40-140			
Endosulfan II	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
Endosulfan II [2C]	0.0122	0.0025	mg/kg wet	0.01250		98	40-140			
Endosulfan Sulfate	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			
Endosulfan Sulfate [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
Endrin	0.0121	0.0025	mg/kg wet	0.01250		97	40-140			
Endrin [2C]	0.0119	0.0025	mg/kg wet	0.01250		95	40-140			
Endrin Ketone	0.0132	0.0025	mg/kg wet	0.01250		105	40-140			
Endrin Ketone [2C]	0.0131	0.0025	mg/kg wet	0.01250		105	40-140			
gamma-BHC (Lindane)	0.0098	0.0015	mg/kg wet	0.01250		78	40-140			
gamma-BHC (Lindane) [2C]	0.0100	0.0015	mg/kg wet	0.01250		80	40-140			
gamma-Chlordane	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
gamma-Chlordane [2C]	0.0131	0.0025	mg/kg wet	0.01250		105	40-140			
Heptachlor	0.0099	0.0025	mg/kg wet	0.01250		79	40-140			
Heptachlor [2C]	0.0110	0.0025	mg/kg wet	0.01250		88	40-140			
Heptachlor Epoxide	0.0106	0.0025	mg/kg wet	0.01250		85	40-140			
Heptachlor Epoxide [2C]	0.0112	0.0025	mg/kg wet	0.01250		90	40-140			
Hexachlorobenzene	0.0079	0.0025	mg/kg wet	0.01250		63	40-140			
Hexachlorobenzene [2C]	0.0087	0.0025	mg/kg wet	0.01250		70	40-140			
Methoxychlor	0.0135	0.0025	mg/kg wet	0.01250		108	40-140			
Methoxychlor [2C]	0.0143	0.0025	mg/kg wet	0.01250		114	40-140			
Surrogate: Decachlorobiphenyl	0.0106		mg/kg wet	0.01250		85	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0114		mg/kg wet	0.01250		92	30-150			

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CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

8081B Organochlorine Pesticides

Batch DC51003 - 3546

Surrogate: Tetrachloro-m-xylene	0.00779		mg/kg wet	0.01250		62	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.00845		mg/kg wet	0.01250		68	30-150			

LCS Dup										
4,4'-DDD	0.0110	0.0025	mg/kg wet	0.01250		88	40-140	21	30	
4,4'-DDD [2C]	0.0107	0.0025	mg/kg wet	0.01250		86	40-140	19	30	
4,4'-DDE	0.0097	0.0025	mg/kg wet	0.01250		78	40-140	18	30	
4,4'-DDE [2C]	0.0097	0.0025	mg/kg wet	0.01250		78	40-140	19	30	
4,4'-DDT	0.0104	0.0025	mg/kg wet	0.01250		83	40-140	22	30	
4,4'-DDT [2C]	0.0106	0.0025	mg/kg wet	0.01250		85	40-140	22	30	
Aldrin	0.0091	0.0025	mg/kg wet	0.01250		73	40-140	8	30	
Aldrin [2C]	0.0092	0.0025	mg/kg wet	0.01250		74	40-140	10	30	
alpha-BHC	0.0088	0.0025	mg/kg wet	0.01250		70	40-140	7	30	
alpha-BHC [2C]	0.0093	0.0025	mg/kg wet	0.01250		74	40-140	8	30	
alpha-Chlordane	0.0091	0.0025	mg/kg wet	0.01250		73	40-140	16	30	
alpha-Chlordane [2C]	0.0096	0.0025	mg/kg wet	0.01250		77	40-140	17	30	
beta-BHC	0.0091	0.0025	mg/kg wet	0.01250		73	40-140	14	30	
beta-BHC [2C]	0.0093	0.0025	mg/kg wet	0.01250		74	40-140	16	30	
delta-BHC	0.0083	0.0025	mg/kg wet	0.01250		66	40-140	21	30	
delta-BHC [2C]	0.0083	0.0025	mg/kg wet	0.01250		66	40-140	21	30	
Dieldrin	0.0102	0.0025	mg/kg wet	0.01250		82	40-140	17	30	
Dieldrin [2C]	0.0103	0.0025	mg/kg wet	0.01250		82	40-140	18	30	
Endosulfan I	0.0091	0.0025	mg/kg wet	0.01250		73	40-140	13	30	
Endosulfan I [2C]	0.0093	0.0025	mg/kg wet	0.01250		75	40-140	14	30	
Endosulfan II	0.0101	0.0025	mg/kg wet	0.01250		81	40-140	21	30	
Endosulfan II [2C]	0.0099	0.0025	mg/kg wet	0.01250		79	40-140	22	30	
Endosulfan Sulfate	0.0104	0.0025	mg/kg wet	0.01250		83	40-140	21	30	
Endosulfan Sulfate [2C]	0.0100	0.0025	mg/kg wet	0.01250		80	40-140	23	30	
Endrin	0.0103	0.0025	mg/kg wet	0.01250		82	40-140	17	30	
Endrin [2C]	0.0098	0.0025	mg/kg wet	0.01250		78	40-140	20	30	
Endrin Ketone	0.0104	0.0025	mg/kg wet	0.01250		83	40-140	23	30	
Endrin Ketone [2C]	0.0104	0.0025	mg/kg wet	0.01250		83	40-140	23	30	
gamma-BHC (Lindane)	0.0090	0.0015	mg/kg wet	0.01250		72	40-140	8	30	
gamma-BHC (Lindane) [2C]	0.0091	0.0015	mg/kg wet	0.01250		73	40-140	10	30	
gamma-Chlordane	0.0106	0.0025	mg/kg wet	0.01250		85	40-140	17	30	
gamma-Chlordane [2C]	0.0109	0.0025	mg/kg wet	0.01250		87	40-140	18	30	
Heptachlor	0.0092	0.0025	mg/kg wet	0.01250		74	40-140	7	30	
Heptachlor [2C]	0.0100	0.0025	mg/kg wet	0.01250		80	40-140	9	30	
Heptachlor Epoxide	0.0094	0.0025	mg/kg wet	0.01250		75	40-140	13	30	
Heptachlor Epoxide [2C]	0.0098	0.0025	mg/kg wet	0.01250		78	40-140	14	30	
Hexachlorobenzene	0.0075	0.0025	mg/kg wet	0.01250		60	40-140	6	30	
Hexachlorobenzene [2C]	0.0081	0.0025	mg/kg wet	0.01250		65	40-140	7	30	
Methoxychlor	0.0108	0.0025	mg/kg wet	0.01250		86	40-140	22	30	
Methoxychlor [2C]	0.0112	0.0025	mg/kg wet	0.01250		90	40-140	24	30	

Surrogate: Decachlorobiphenyl	0.00818		mg/kg wet	0.01250		65	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.00881		mg/kg wet	0.01250		70	30-150			

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CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

8081B Organochlorine Pesticides

Batch DC51003 - 3546

Surrogate: Tetrachloro-m-xylene	0.00706		mg/kg wet	0.01250		56	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.00758		mg/kg wet	0.01250		61	30-150			

8151A Chlorinated Herbicides

Batch DC51147 - 3546

Blank

2,4,5-T	ND	0.010	mg/kg wet							
2,4,5-T [2C]	ND	0.010	mg/kg wet							
2,4,5-TP (Silvex)	ND	0.010	mg/kg wet							
2,4,5-TP (Silvex) [2C]	ND	0.010	mg/kg wet							
2,4-D	ND	0.047	mg/kg wet							
2,4-D [2C]	ND	0.047	mg/kg wet							
2,4-DB	ND	0.048	mg/kg wet							
2,4-DB [2C]	ND	0.048	mg/kg wet							
Dalapon	ND	0.046	mg/kg wet							
Dalapon [2C]	ND	0.046	mg/kg wet							
Dicamba	ND	0.009	mg/kg wet							
Dicamba [2C]	ND	0.009	mg/kg wet							
Dichlorprop	ND	0.047	mg/kg wet							
Dichlorprop [2C]	ND	0.047	mg/kg wet							
MCPA	ND	2.32	mg/kg wet							
MCPA [2C]	ND	2.32	mg/kg wet							
MCPP	ND	2.35	mg/kg wet							
MCPP [2C]	ND	2.35	mg/kg wet							
Surrogate: DCAA	0.155		mg/kg wet	0.2000		78	30-150			
Surrogate: DCAA [2C]	0.149		mg/kg wet	0.2000		75	30-150			

LCS

2,4,5-T	0.015	0.010	mg/kg wet	0.01900		78	40-140			
2,4,5-T [2C]	0.014	0.010	mg/kg wet	0.01900		76	40-140			
2,4,5-TP (Silvex)	0.014	0.010	mg/kg wet	0.01900		76	40-140			
2,4,5-TP (Silvex) [2C]	0.015	0.010	mg/kg wet	0.01900		78	40-140			
2,4-D	0.104	0.047	mg/kg wet	0.1880		55	40-140			
2,4-D [2C]	0.130	0.047	mg/kg wet	0.1880		69	40-140			
2,4-DB	0.154	0.048	mg/kg wet	0.1900		81	40-140			
2,4-DB [2C]	0.150	0.048	mg/kg wet	0.1900		79	40-140			
Dalapon	0.321	0.046	mg/kg wet	0.4550		70	40-140			
Dalapon [2C]	0.375	0.046	mg/kg wet	0.4550		82	40-140			
Dicamba	0.013	0.009	mg/kg wet	0.01880		68	40-140			
Dicamba [2C]	0.017	0.009	mg/kg wet	0.01880		88	40-140			
Dichlorprop	0.159	0.047	mg/kg wet	0.1880		85	40-140			
Dichlorprop [2C]	0.158	0.047	mg/kg wet	0.1880		84	40-140			
MCPA	17.1	2.32	mg/kg wet	18.60		92	40-140			
MCPA [2C]	16.7	2.32	mg/kg wet	18.60		90	40-140			
MCPP	16.4	2.35	mg/kg wet	18.80		87	40-140			
MCPP [2C]	18.9	2.35	mg/kg wet	18.80		101	40-140			

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

8151A Chlorinated Herbicides

Batch DC51147 - 3546

Surrogate: DCAA	0.179		mg/kg wet	0.2000		90	30-150			
Surrogate: DCAA [2C]	0.168		mg/kg wet	0.2000		84	30-150			

LCS Dup

2,4,5-T	0.015	0.010	mg/kg wet	0.01900		78	40-140	0	30	
2,4,5-T [2C]	0.015	0.010	mg/kg wet	0.01900		78	40-140	3	30	
2,4,5-TP (Silvex)	0.015	0.010	mg/kg wet	0.01900		78	40-140	3	30	
2,4,5-TP (Silvex) [2C]	0.016	0.010	mg/kg wet	0.01900		82	40-140	5	30	
2,4-D	0.105	0.047	mg/kg wet	0.1880		56	40-140	1	30	
2,4-D [2C]	0.130	0.047	mg/kg wet	0.1880		69	40-140	0.6	30	
2,4-DB	0.158	0.048	mg/kg wet	0.1900		83	40-140	2	30	
2,4-DB [2C]	0.151	0.048	mg/kg wet	0.1900		80	40-140	1	30	
Dalapon	0.314	0.046	mg/kg wet	0.4550		69	40-140	2	30	
Dalapon [2C]	0.345	0.046	mg/kg wet	0.4550		76	40-140	8	30	
Dicamba	0.014	0.009	mg/kg wet	0.01880		72	40-140	6	30	
Dicamba [2C]	0.017	0.009	mg/kg wet	0.01880		88	40-140	0	30	
Dichlorprop	0.165	0.047	mg/kg wet	0.1880		88	40-140	3	30	
Dichlorprop [2C]	0.162	0.047	mg/kg wet	0.1880		86	40-140	3	30	
MCPA	17.1	2.32	mg/kg wet	18.60		92	40-140	0.3	30	
MCPA [2C]	17.3	2.32	mg/kg wet	18.60		93	40-140	3	30	
MCPP	16.4	2.35	mg/kg wet	18.80		87	40-140	0.4	30	
MCPP [2C]	19.5	2.35	mg/kg wet	18.80		104	40-140	3	30	
Surrogate: DCAA	0.179		mg/kg wet	0.2000		89	30-150			
Surrogate: DCAA [2C]	0.172		mg/kg wet	0.2000		86	30-150			

8100M Total Petroleum Hydrocarbons

Batch DC50744 - 3546

Blank

Decane (C10)	ND	0.2	mg/kg wet							
Docosane (C22)	ND	0.2	mg/kg wet							
Dodecane (C12)	ND	0.2	mg/kg wet							
Eicosane (C20)	ND	0.2	mg/kg wet							
Hexacosane (C26)	ND	0.2	mg/kg wet							
Hexadecane (C16)	ND	0.2	mg/kg wet							
Hexatriacontane (C36)	ND	0.2	mg/kg wet							
Nonadecane (C19)	ND	0.2	mg/kg wet							
Nonane (C9)	ND	0.2	mg/kg wet							
Octacosane (C28)	ND	0.2	mg/kg wet							
Octadecane (C18)	ND	0.2	mg/kg wet							
Tetracosane (C24)	ND	0.2	mg/kg wet							
Tetradecane (C14)	ND	0.2	mg/kg wet							
Total Petroleum Hydrocarbons (C9-C36)	ND	10.0	mg/kg wet							
Triacontane (C30)	ND	0.2	mg/kg wet							
Surrogate: O-Terphenyl	3.95		mg/kg wet	5.000		79	40-140			

LCS

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

8100M Total Petroleum Hydrocarbons

Batch DC50744 - 3546

Decane (C10)	1.7	0.2	mg/kg wet	2.500		66	40-140			
Docosane (C22)	1.9	0.2	mg/kg wet	2.500		75	40-140			
Dodecane (C12)	1.8	0.2	mg/kg wet	2.500		72	40-140			
Eicosane (C20)	1.9	0.2	mg/kg wet	2.500		74	40-140			
Hexacosane (C26)	1.9	0.2	mg/kg wet	2.500		76	40-140			
Hexadecane (C16)	1.8	0.2	mg/kg wet	2.500		72	40-140			
Hexatriacontane (C36)	1.7	0.2	mg/kg wet	2.500		66	40-140			
Nonadecane (C19)	1.8	0.2	mg/kg wet	2.500		74	40-140			
Nonane (C9)	1.6	0.2	mg/kg wet	2.500		63	30-140			
Octacosane (C28)	1.9	0.2	mg/kg wet	2.500		76	40-140			
Octadecane (C18)	1.8	0.2	mg/kg wet	2.500		73	40-140			
Tetracosane (C24)	1.9	0.2	mg/kg wet	2.500		76	40-140			
Tetradecane (C14)	1.8	0.2	mg/kg wet	2.500		72	40-140			
Total Petroleum Hydrocarbons (C9-C36)	25.6	10.0	mg/kg wet	35.00		73	40-140			
Triacontane (C30)	1.8	0.2	mg/kg wet	2.500		74	40-140			
Surrogate: O-Terphenyl	3.61		mg/kg wet	5.000		72	40-140			

LCS Dup

Decane (C10)	1.8	0.2	mg/kg wet	2.500		73	40-140	10	25	
Docosane (C22)	2.1	0.2	mg/kg wet	2.500		83	40-140	10	25	
Dodecane (C12)	1.9	0.2	mg/kg wet	2.500		77	40-140	8	25	
Eicosane (C20)	2.1	0.2	mg/kg wet	2.500		82	40-140	10	25	
Hexacosane (C26)	2.1	0.2	mg/kg wet	2.500		84	40-140	10	25	
Hexadecane (C16)	2.0	0.2	mg/kg wet	2.500		80	40-140	10	25	
Hexatriacontane (C36)	1.8	0.2	mg/kg wet	2.500		72	40-140	8	25	
Nonadecane (C19)	2.0	0.2	mg/kg wet	2.500		82	40-140	10	25	
Nonane (C9)	1.6	0.2	mg/kg wet	2.500		65	30-140	2	25	
Octacosane (C28)	2.1	0.2	mg/kg wet	2.500		84	40-140	10	25	
Octadecane (C18)	2.0	0.2	mg/kg wet	2.500		81	40-140	10	25	
Tetracosane (C24)	2.1	0.2	mg/kg wet	2.500		83	40-140	10	25	
Tetradecane (C14)	2.0	0.2	mg/kg wet	2.500		79	40-140	9	25	
Total Petroleum Hydrocarbons (C9-C36)	27.9	10.0	mg/kg wet	35.00		80	40-140	9	25	
Triacontane (C30)	2.0	0.2	mg/kg wet	2.500		81	40-140	10	25	
Surrogate: O-Terphenyl	4.13		mg/kg wet	5.000		83	40-140			

Classical Chemistry

Batch DC50736 - General Preparation

Blank

Conductivity	ND	5	umhos/cm							

LCS

Conductivity	1410		umhos/cm	1410		100	90-110			

Batch DC51035 - General Preparation

Blank

Reactive Cyanide	ND	2.0	mg/kg							
Reactive Sulfide	ND	2.0	mg/kg							

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
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ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Classical Chemistry

Batch DC51035 - General Preparation

LCS

Reactive Cyanide	4.1	2.0	mg/kg	100.3		4	0.68-5.41			
Reactive Sulfide	2.2	2.0	mg/kg	10.00		22	0-44			

Batch DC51036 - General Preparation

Reference

Flashpoint	80		°F	81.00		99	97.9-102.1			

Batch DC51156 - General Preparation

Blank

Total Organic Carbon (1)	ND	500	mg/kg							
Total Organic Carbon (2)	ND	500	mg/kg							

LCS

Total Organic Carbon (1)	9240	500	mg/kg	10010		92	80-120			
Total Organic Carbon (2)	9680	500	mg/kg	10010		97	80-120			

LCS Dup

Total Organic Carbon (1)	9600	500	mg/kg	10010		96	80-120	4	25	
Total Organic Carbon (2)	9110	500	mg/kg	10010		91	80-120	6	25	

8082 Polychlorinated Biphenyls (PCB) / Congeners

Batch DC51104 - 3540C

Blank

BZ#101	ND	0.00027	mg/kg wet							
BZ#101 [2C]	ND	0.00027	mg/kg wet							
BZ#105	ND	0.00027	mg/kg wet							
BZ#105 [2C]	ND	0.00027	mg/kg wet							
BZ#118	ND	0.00027	mg/kg wet							
BZ#118 [2C]	ND	0.00027	mg/kg wet							
BZ#128	ND	0.00027	mg/kg wet							
BZ#128 [2C]	ND	0.00027	mg/kg wet							
BZ#138	ND	0.00027	mg/kg wet							
BZ#138 [2C]	ND	0.00027	mg/kg wet							
BZ#153	ND	0.00027	mg/kg wet							
BZ#153 [2C]	ND	0.00027	mg/kg wet							
BZ#170	ND	0.00027	mg/kg wet							
BZ#170 [2C]	ND	0.00027	mg/kg wet							
BZ#18	ND	0.00027	mg/kg wet							
BZ#18 [2C]	ND	0.00027	mg/kg wet							
BZ#180	ND	0.00027	mg/kg wet							
BZ#180 [2C]	ND	0.00027	mg/kg wet							
BZ#187	ND	0.00027	mg/kg wet							
BZ#187 [2C]	ND	0.00027	mg/kg wet							
BZ#195	ND	0.00027	mg/kg wet							
BZ#195 [2C]	ND	0.00027	mg/kg wet							
BZ#206	ND	0.00027	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

8082 Polychlorinated Biphenyls (PCB) / Congeners

Batch DC51104 - 3540C

BZ#206 [2C]	ND	0.00027	mg/kg wet							
BZ#209	ND	0.00027	mg/kg wet							
BZ#209 [2C]	ND	0.00027	mg/kg wet							
BZ#28	ND	0.00027	mg/kg wet							
BZ#28 [2C]	ND	0.00027	mg/kg wet							
BZ#44	ND	0.00027	mg/kg wet							
BZ#44 [2C]	ND	0.00027	mg/kg wet							
BZ#52	ND	0.00027	mg/kg wet							
BZ#52 [2C]	ND	0.00027	mg/kg wet							
BZ#66	ND	0.00027	mg/kg wet							
BZ#66 [2C]	ND	0.00027	mg/kg wet							
BZ#8	ND	0.00027	mg/kg wet							
BZ#8 [2C]	ND	0.00027	mg/kg wet							
Surrogate: Tetrachloro-m-xylene	0.00259		mg/kg wet	0.003333		78	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.00245		mg/kg wet	0.003333		74	30-150			

LCS

BZ#101	0.00255	0.00027	mg/kg wet	0.003333		77	40-140			
BZ#101 [2C]	0.00246	0.00027	mg/kg wet	0.003333		74	40-140			
BZ#105	0.00269	0.00027	mg/kg wet	0.003333		81	40-140			
BZ#105 [2C]	0.00255	0.00027	mg/kg wet	0.003333		76	40-140			
BZ#118	0.00248	0.00027	mg/kg wet	0.003333		74	40-140			
BZ#118 [2C]	0.00242	0.00027	mg/kg wet	0.003333		73	40-140			
BZ#128	0.00225	0.00027	mg/kg wet	0.003333		68	40-140			
BZ#128 [2C]	0.00238	0.00027	mg/kg wet	0.003333		72	40-140			
BZ#138	0.00254	0.00027	mg/kg wet	0.003333		76	40-140			
BZ#138 [2C]	0.00250	0.00027	mg/kg wet	0.003333		75	40-140			
BZ#153	0.00246	0.00027	mg/kg wet	0.003333		74	40-140			
BZ#153 [2C]	0.00233	0.00027	mg/kg wet	0.003333		70	40-140			
BZ#170	0.00247	0.00027	mg/kg wet	0.003333		74	40-140			
BZ#170 [2C]	0.00245	0.00027	mg/kg wet	0.003333		74	40-140			
BZ#18	0.00247	0.00027	mg/kg wet	0.003333		74	40-140			
BZ#18 [2C]	0.00227	0.00027	mg/kg wet	0.003333		68	40-140			
BZ#180	0.00258	0.00027	mg/kg wet	0.003333		77	40-140			
BZ#180 [2C]	0.00241	0.00027	mg/kg wet	0.003333		72	40-140			
BZ#187	0.00246	0.00027	mg/kg wet	0.003333		74	40-140			
BZ#187 [2C]	0.00243	0.00027	mg/kg wet	0.003333		73	40-140			
BZ#195	0.00252	0.00027	mg/kg wet	0.003333		76	40-140			
BZ#195 [2C]	0.00241	0.00027	mg/kg wet	0.003333		72	40-140			
BZ#206	0.00244	0.00027	mg/kg wet	0.003333		73	40-140			
BZ#206 [2C]	0.00241	0.00027	mg/kg wet	0.003333		72	40-140			
BZ#209	0.00242	0.00027	mg/kg wet	0.003333		73	40-140			
BZ#209 [2C]	0.00239	0.00027	mg/kg wet	0.003333		72	40-140			
BZ#28	0.00281	0.00027	mg/kg wet	0.003333		84	40-140			
BZ#28 [2C]	0.00223	0.00027	mg/kg wet	0.003333		67	40-140			
BZ#44	0.00267	0.00027	mg/kg wet	0.003333		80	40-140			

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB) / Congeners										
Batch DC51104 - 3540C										
BZ#44 [2C]	0.00242	0.00027	mg/kg wet	0.003333		73	40-140			
BZ#52	0.00259	0.00027	mg/kg wet	0.003333		78	40-140			
BZ#52 [2C]	0.00229	0.00027	mg/kg wet	0.003333		69	40-140			
BZ#66	0.00258	0.00027	mg/kg wet	0.003333		78	40-140			
BZ#66 [2C]	0.00233	0.00027	mg/kg wet	0.003333		70	40-140			
BZ#8	0.00262	0.00027	mg/kg wet	0.003333		79	40-140			
BZ#8 [2C]	0.00230	0.00027	mg/kg wet	0.003333		69	40-140			
Surrogate: Tetrachloro-m-xylene	0.00228		mg/kg wet	0.003333		68	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.00217		mg/kg wet	0.003333		65	30-150			
LCS Dup										
BZ#101	0.00296	0.00027	mg/kg wet	0.003333		89	40-140	15	30	
BZ#101 [2C]	0.00283	0.00027	mg/kg wet	0.003333		85	40-140	14	30	
BZ#105	0.00303	0.00027	mg/kg wet	0.003333		91	40-140	12	30	
BZ#105 [2C]	0.00287	0.00027	mg/kg wet	0.003333		86	40-140	12	30	
BZ#118	0.00278	0.00027	mg/kg wet	0.003333		84	40-140	12	30	
BZ#118 [2C]	0.00275	0.00027	mg/kg wet	0.003333		83	40-140	13	30	
BZ#128	0.00251	0.00027	mg/kg wet	0.003333		75	40-140	11	30	
BZ#128 [2C]	0.00271	0.00027	mg/kg wet	0.003333		81	40-140	13	30	
BZ#138	0.00292	0.00027	mg/kg wet	0.003333		88	40-140	14	30	
BZ#138 [2C]	0.00287	0.00027	mg/kg wet	0.003333		86	40-140	14	30	
BZ#153	0.00284	0.00027	mg/kg wet	0.003333		85	40-140	14	30	
BZ#153 [2C]	0.00264	0.00027	mg/kg wet	0.003333		79	40-140	13	30	
BZ#170	0.00281	0.00027	mg/kg wet	0.003333		84	40-140	13	30	
BZ#170 [2C]	0.00273	0.00027	mg/kg wet	0.003333		82	40-140	10	30	
BZ#18	0.00275	0.00027	mg/kg wet	0.003333		82	40-140	10	30	
BZ#18 [2C]	0.00267	0.00027	mg/kg wet	0.003333		80	40-140	16	30	
BZ#180	0.00294	0.00027	mg/kg wet	0.003333		88	40-140	13	30	
BZ#180 [2C]	0.00276	0.00027	mg/kg wet	0.003333		83	40-140	14	30	
BZ#187	0.00286	0.00027	mg/kg wet	0.003333		86	40-140	15	30	
BZ#187 [2C]	0.00281	0.00027	mg/kg wet	0.003333		84	40-140	15	30	
BZ#195	0.00285	0.00027	mg/kg wet	0.003333		85	40-140	12	30	
BZ#195 [2C]	0.00272	0.00027	mg/kg wet	0.003333		82	40-140	12	30	
BZ#206	0.00276	0.00027	mg/kg wet	0.003333		83	40-140	12	30	
BZ#206 [2C]	0.00269	0.00027	mg/kg wet	0.003333		81	40-140	11	30	
BZ#209	0.00277	0.00027	mg/kg wet	0.003333		83	40-140	13	30	
BZ#209 [2C]	0.00268	0.00027	mg/kg wet	0.003333		80	40-140	12	30	
BZ#28	0.00333	0.00027	mg/kg wet	0.003333		100	40-140	17	30	
BZ#28 [2C]	0.00264	0.00027	mg/kg wet	0.003333		79	40-140	17	30	
BZ#44	0.00313	0.00027	mg/kg wet	0.003333		94	40-140	16	30	
BZ#44 [2C]	0.00279	0.00027	mg/kg wet	0.003333		84	40-140	14	30	
BZ#52	0.00282	0.00027	mg/kg wet	0.003333		85	40-140	9	30	
BZ#52 [2C]	0.00263	0.00027	mg/kg wet	0.003333		79	40-140	14	30	
BZ#66	0.00299	0.00027	mg/kg wet	0.003333		90	40-140	14	30	
BZ#66 [2C]	0.00268	0.00027	mg/kg wet	0.003333		80	40-140	14	30	
BZ#8	0.00309	0.00027	mg/kg wet	0.003333		93	40-140	16	30	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB) / Congeners										
Batch DC51104 - 3540C										
BZ#8 [2C]	0.00268	0.00027	mg/kg wet	0.003333		80	40-140	15	30	
Surrogate: Tetrachloro-m-xylene	0.00263		mg/kg wet	0.003333		79	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.00252		mg/kg wet	0.003333		75	30-150			

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

Notes and Definitions

Z18	Temperature is not within 23 +/-2 °C.
Z-08	See Attached
WL	Results obtained from a deionized water leach of the sample.
U	Analyte included in the analysis, but not detected
R-	Standard Reference Material is biased low (R-).
Q	Calibration required quadratic regression (Q).
P	Percent difference between primary and confirmation results exceeds 40% (P).
LC	Lower value is used due to matrix interferences (LC).
IC	Internal Standard(s) outside of criteria. Sample was reanalyzed to confirm (IC).
EL	Elevated Method Reporting Limits due to sample matrix (EL).
DDT	DDT breakdown > 20%
D	Diluted.
CD-	Continuing Calibration %Diff/Drift is below control limit (CD-).
B-	Blank Spike recovery is below lower control limit (B-).
>	Greater than.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probable Number
TNTC	Too numerous to Count
CFU	Colony Forming Units

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0241

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutOfStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

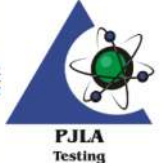
<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_Opra/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

Pennsylvania: 68-01752

<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>



Accreditation#
98218

4/22/2025

ESS Laboratory

MicroVision Labs Coal Ash Report, Job # 17264
ESS Laboratory Project#: 25C0241

Scope of Work:

This report covers the methods and findings of the Coal/Coal Ash analysis that MicroVision Laboratories, Inc. conducted on four soil samples submitted for testing. The purpose of this analysis was to detect and document any coal, coal ash, wood ash or asphalt that may be present in the submitted soil samples by use of a combination of microscopy techniques including SEM/EDS, PLM, and macroscopic inspection. The results presented in this report relate only to the samples examined and as received.

Methods:

MicroVision Labs is accredited to the ISO/IEC 17025:2017 standard. This analysis follows our in house SOP #MVL05 (Microscopic Analysis for Coal, Coal Ash and Wood Ash). This method is listed on our certificate of accreditation and has been validated.

Findings:

The following pages display the data for each particle type detected in the samples for this project. Each page contains a PLM image, SEM image, and EDS spectrum for the particle types detected for these samples as well as particle type descriptions and observations.

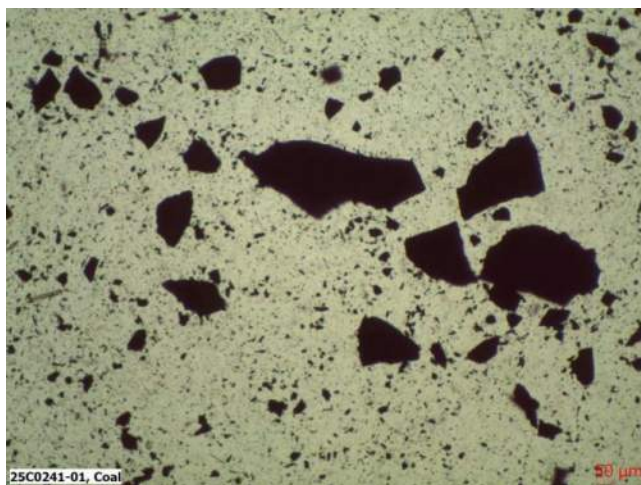
ISO/IEC 17025:2017 Accredited

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www.MicroVisionLabs.com

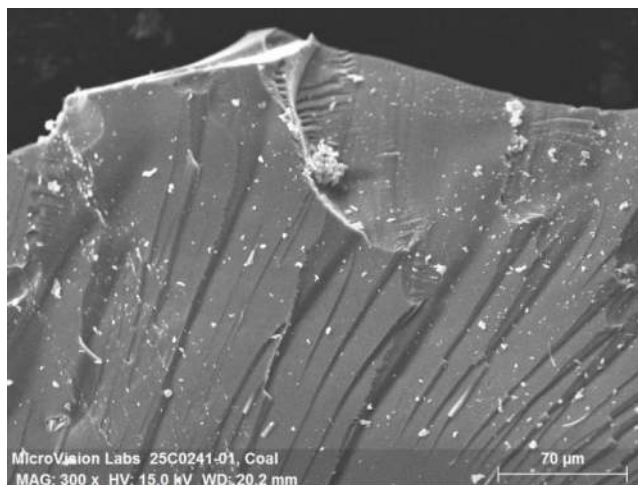
Sample: 25C0241-01

Number of Suspect Particle Types: Two

Coal: This particle type consisted of twenty-six shiny, black grains approximately 1-20mm in diameter. The PLM examination indicated this particle type to be consistent with coal. The PLM and SEM images of this particle type show the angular edges and typical conchoidal fractures found in coal.

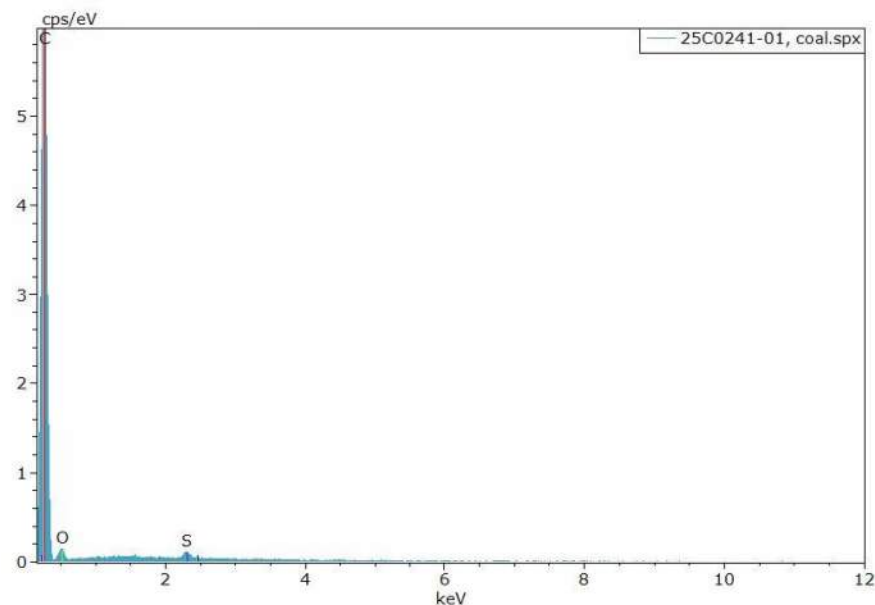


PLM Image



SEM Image

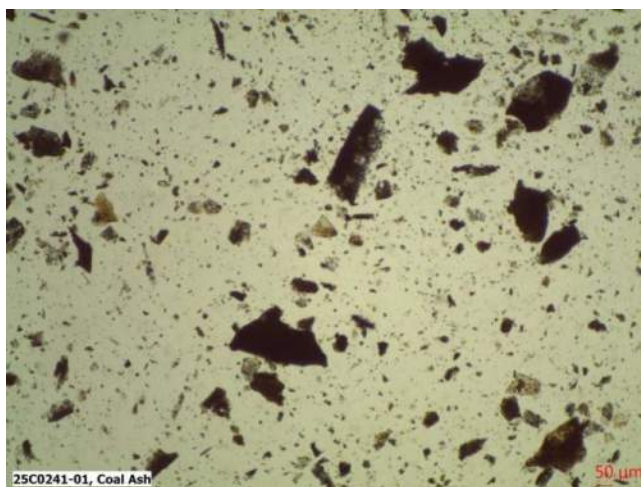
The EDS spectrum, shown below, confirms that this particle type is coal. The analysis for this particle shows concentrations of carbon, oxygen, and sulfur.



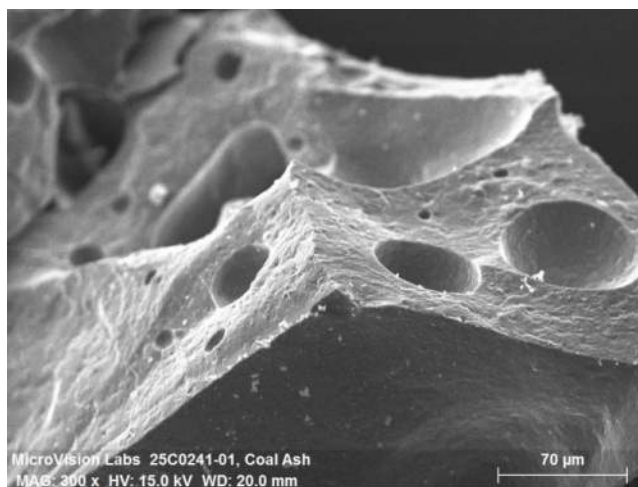
ISO/IEC 17025:2017 Accredited

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Coal Ash: This particle type consisted of one dark, porous grain approximately 2mm in diameter. The PLM examination indicated this particle type to be consistent with coal ash. The PLM and SEM images show the spherical gas voids that formed during combustion.

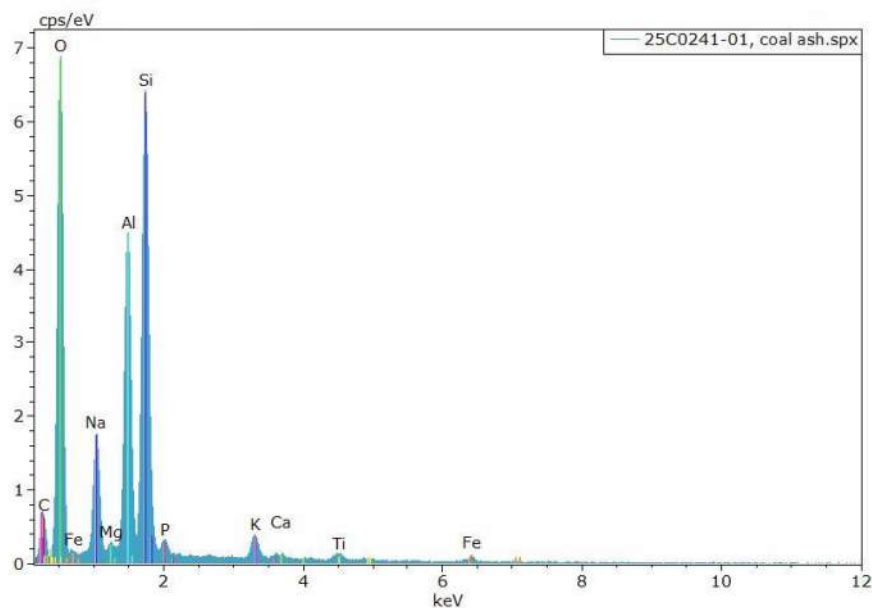


PLM Image



SEM Image

The EDS spectrum, shown below, indicates this particle type is coal ash. The analysis for this particle shows concentrations of carbon, oxygen, sodium, magnesium, aluminum, silicon, phosphorus, potassium, calcium, titanium and iron.



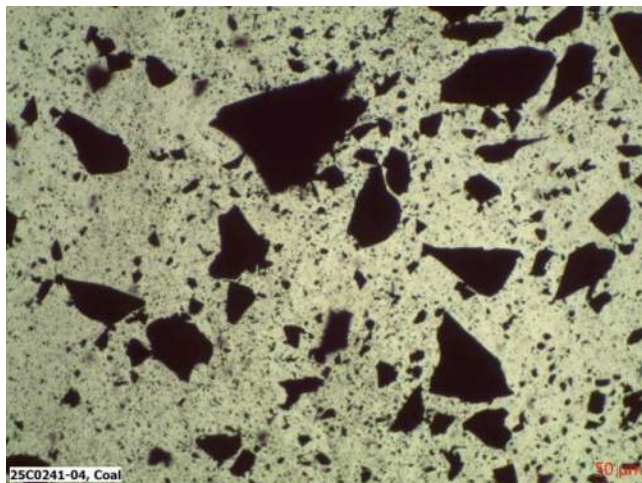
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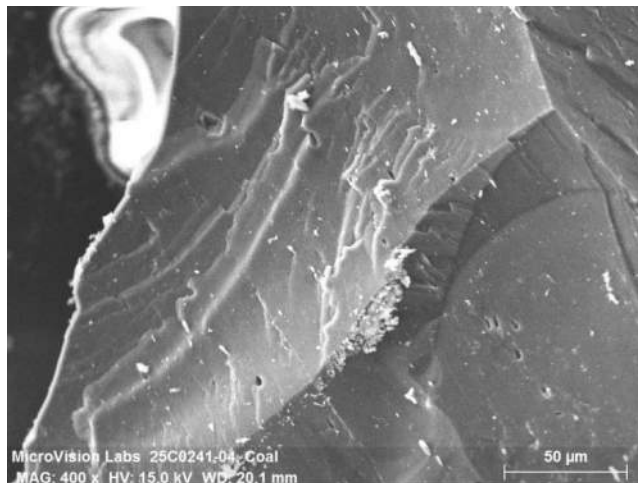
Sample: 25C0241-04

Number of Suspect Particle Types: One

Coal: This particle type consisted of four shiny, black grains approximately 3-26mm in diameter. The PLM examination indicated this particle type to be consistent with coal. The PLM and SEM images of this particle type show the angular edges and typical conchoidal fractures found in coal.

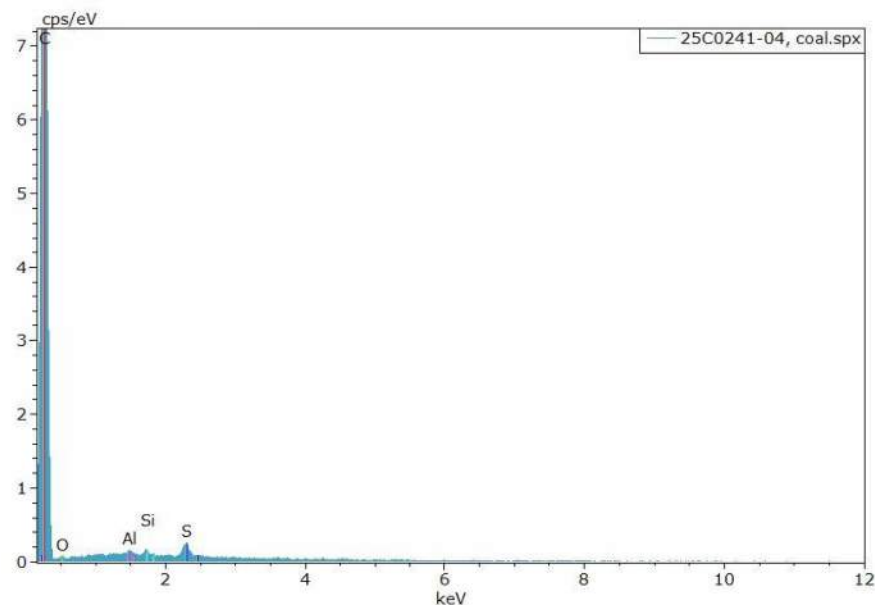


PLM Image



SEM Image

The EDS spectrum, shown below, confirms that this particle type is coal. The analysis for this particle shows concentrations of carbon, oxygen, aluminum, silicon, and sulfur.



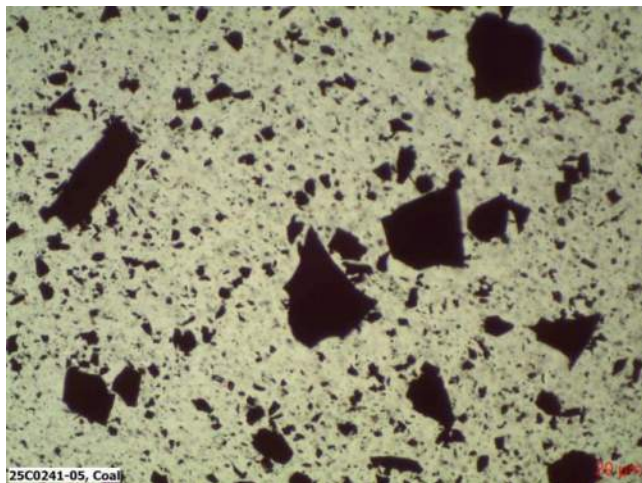
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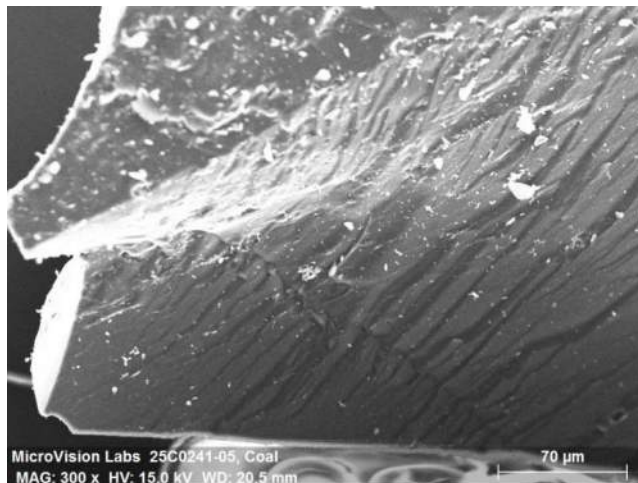
Sample: 25C0241-05

Number of Suspect Particle Types: One

Coal: This particle type consisted of thirteen shiny, black grains approximately 1-12mm in diameter. The PLM examination indicated this particle type to be consistent with coal. The PLM and SEM images of this particle type show the angular edges and typical conchoidal fractures found in coal.

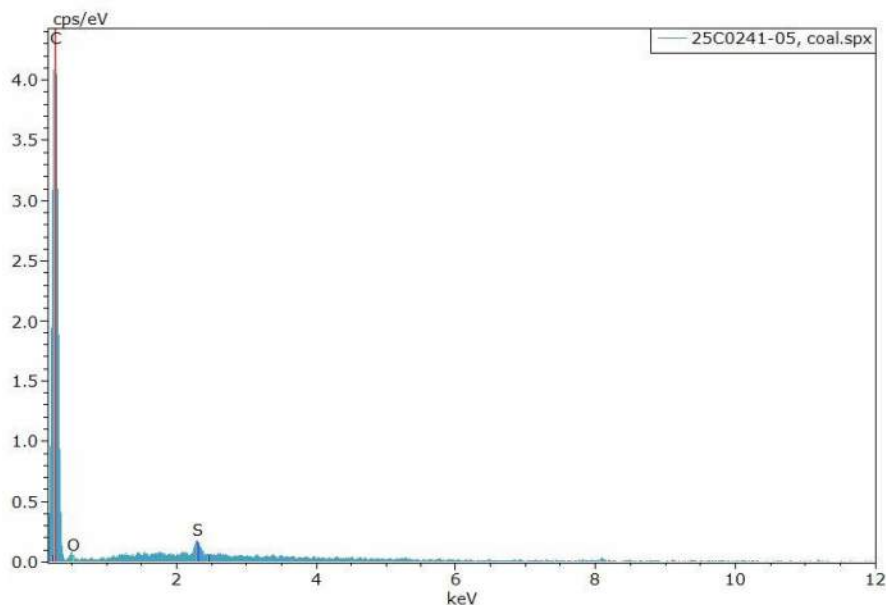


PLM Image



SEM Image

The EDS spectrum, shown below, confirms that this particle type is coal. The analysis for this particle shows concentrations of carbon, oxygen, and sulfur.



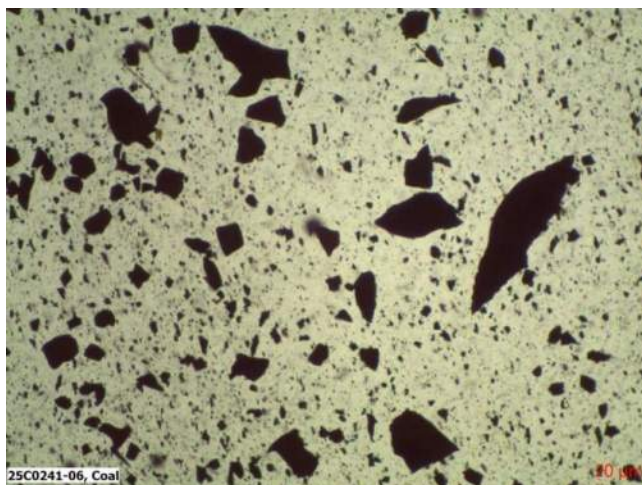
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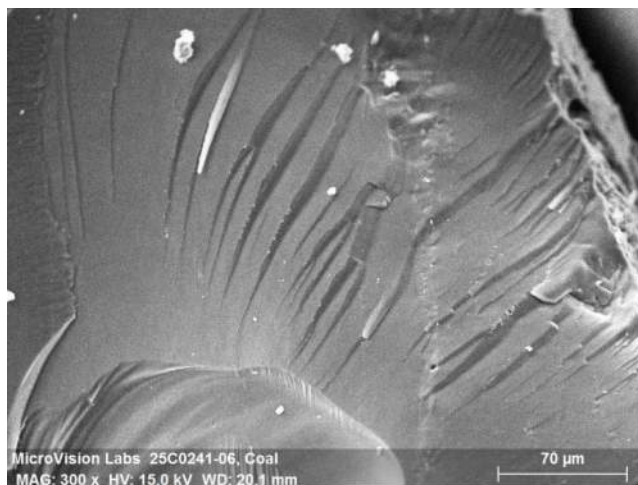
Sample: 25C0241-06

Number of Suspect Particle Types: One

Coal: This particle type consisted of four shiny, black grains approximately 2-5mm in diameter. The PLM examination indicated this particle type to be consistent with coal. The PLM and SEM images of this particle type show the angular edges and typical conchoidal fractures found in coal.

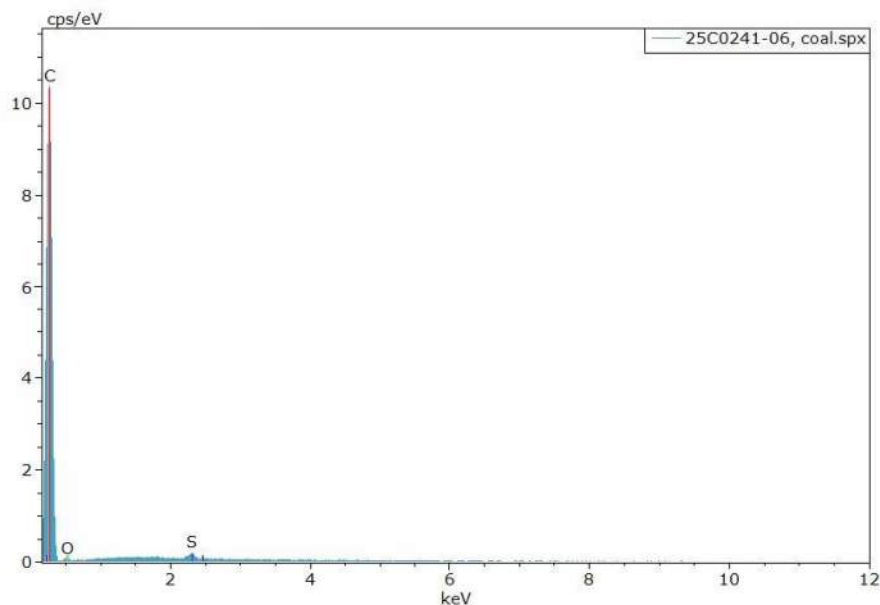


PLM Image



SEM Image

The EDS spectrum, shown below, confirms that this particle type is coal. The analysis for this particle shows concentrations of carbon, oxygen, and sulfur.



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Results Summary Table:

Sample Name	Material Detected
25C0241-01	Coal (moderate), Coal Ash (trace)
25C0241-04	Coal (trace)
25C0241-05	Coal (light)
25C0241-06	Coal (trace)

The concentrations of the particle types detected in these samples are listed in parenthesis in the table above and are based on the number of particles found and the relative difficulty in finding them. The concentration information is listed for informational purposes only and has no bearing on exemption status.

Please let us know if you have any questions about this analysis or if there is anything else we can do for you.

Sincerely,



Denise Weidler
Analytical Microscopist

Reviewed by: jas

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ESS Laboratory DIVISION OF THE RISE GROUP		SUBCONTRACT ORDER 17264 25C0241	
SENDING LABORATORY ESS Laboratory 185 Frances Avenue Cranston, RI 02910 Phone: (401) 461-7181		RECEIVING LABORATORY Microvision Laboratories, Inc. 187 Billerica Road Chelmsford, MA 01824 Phone: (978) 250-9909	
PROJECT NOTES			
Project Name: 25C0241 Project PO Number: 20008C Send Report To: smorrell@thielsch.com; MDean@thielsch.com; ESSProjectManagement@thielsch.com		Project Location: MA Due Date: Standard	
Sample ID: 25C0241-01 Sample Matrix: Sediment Container - Preservation: x 8 oz. Jar - Unpres Analysis: Coal/Wood Ash Determination Analysis Comments: N/A		Sampled: 03/05/25 13:20 Sample Type: Composite Sampled By: Client Hold Time Expires: 3/19/2025	
Sample ID: 25C0241-04 Sample Matrix: Sediment Container - Preservation: x 8 oz. Jar - Unpres Analysis: Coal/Wood Ash Determination Analysis Comments: N/A		Sampled: 03/05/25 12:00 Sample Type: Composite Sampled By: Client Hold Time Expires: 3/19/2025	
Sample ID: 25C0241-05 Sample Matrix: Sediment Container - Preservation: x 8 oz. Jar - Unpres Analysis: Coal/Wood Ash Determination Analysis Comments: N/A		Sampled: 03/05/25 13:15 Sample Type: Composite Sampled By: Client Hold Time Expires: 3/19/2025	
Released By: Date: 4/15/25 0805 Released By: Date: 4/15/25 959A Received By: Date: 4/15/25 805A Received By: Date: 4/15/25 10AM			

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 Thielsch DIVISION OF THE RISE GROUP	195 Frances Avenue Cranston RI, 02910 Phone: (401)-467-6454 Fax: (401)-467-2398 cts.thielsch.com <i>Let's Build a Solid Foundation</i>	Client Information:	Project Information:
		ESS Laboratory Cranston, RI (401) 461-7181 Project Contact: Shawn Morrell Collected By: Client	Lily Pond Nantucket, MA Project Number: 25C0241 Summary Page: 1 of 1 Report Date: 03.17.25

LABORATORY TESTING DATA SHEET, Report No.: 7425-C-143

Material Source	Sample ID	Depth (ft)	Laboratory No.	Identification Tests									Proctor / CBR / Permeability Tests									Laboratory Log and Soil Description
				As Rcvd Moisture Content %	LL %	PL %	OD LL	Gravel %	Sand %	Fines %	Org. %	pH	g _d MAX (pcf) W _{opt} (%)	g _d MAX (pcf) W _{opt} (%) (Corr.)	Dry unit wt. (pcf)	Test Moisture Content %	Target Test Setup as % of Proctor	CBR @ 0.1"	CBR @ 0.2"	Permeability cm/sec		
				D2216	D4318			D6913			D2974	D4792	D1557									
Sediment	2025-SS-1		25C0241-01	42.8				10.7	57.6	31.7										Dark Brown Organic silty sand		
Sediment	2025-SS-2		25C0241-02	210				41.8	48.3	9.9										Brown Organic poorly graded sand with silt and gravel		
Sediment	2025-SS-3		25C0241-03	83.3				0.0	86.0	14.0										Dark Brown Organic silty sand		
Sediment	2025-SS-4		25C0241-04	150				15.2	54.6	30.2										Dark Brown Organic silty sand with gravel		
Sediment	2025-SS-5		25C0241-05	78.7				0.0	72.6	27.4										Dark Brown Organic silty sand		
Sediment	2025-SS-6		25C0241-06	76.6				6.4	78.0	15.6										Dark Brown Organic silty sand		
Sediment	2025-SS-7		25C0241-07	55.2				0.0	58.5	41.5										Dark Brown Organic silty sand		
Sediment	2025-SS-8		25C0241-08	84.0				0.0	86.4	13.6										Dark Brown Organic silty sand		
Sediment	2025-SS-9		25C0241-09	37.9				2.9	85.3	11.8										Dark Brown Organic well-graded sand with silt		
Sediment	2025-SS-10		25C0241-10	26.7				3.1	63.6	33.3										Dark Brown Organic silty sand		

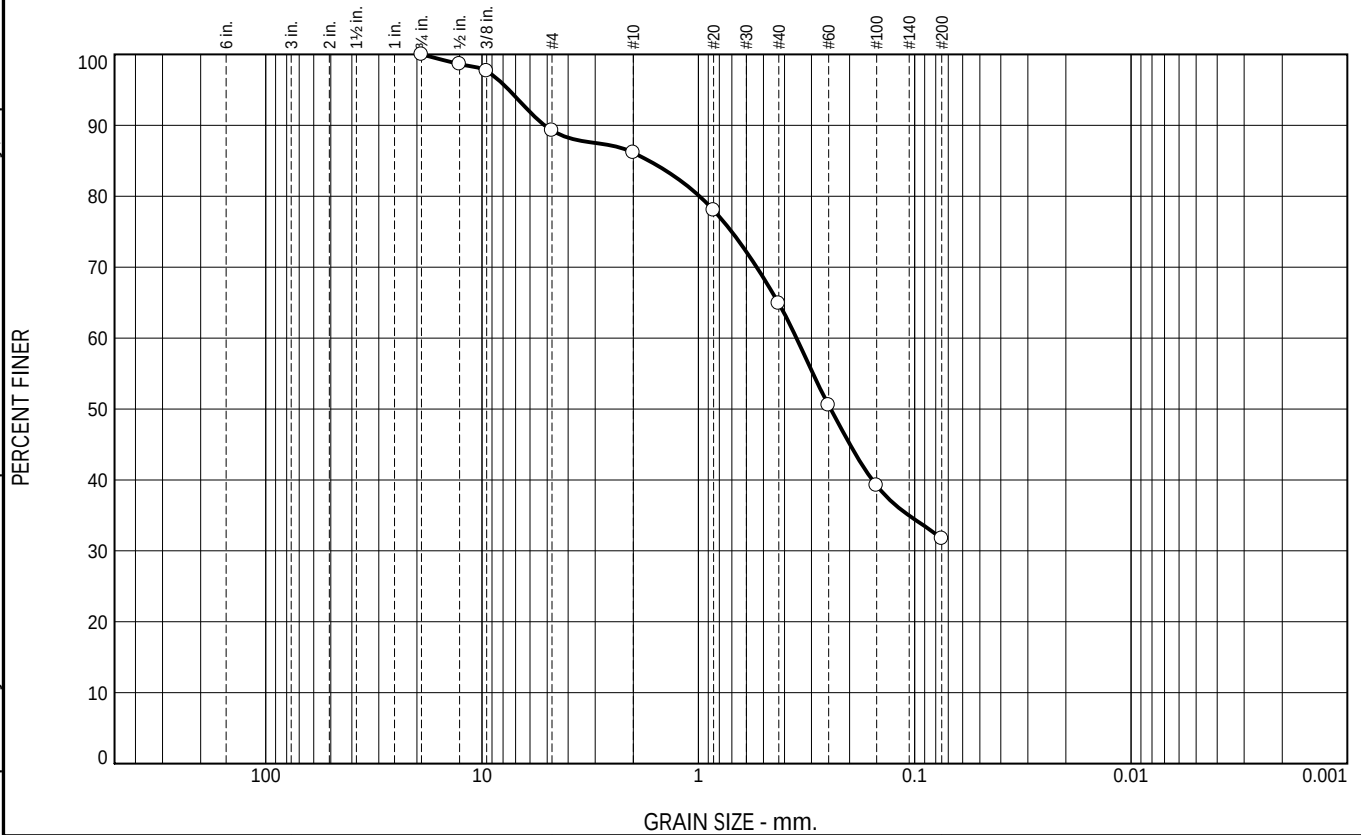
Date Received: 03.11.25

Reviewed By: 

Date Reviewed: 03.17.25

These results are for the exclusive use of the client for whom they were obtained. This report only relates to items inspect and/or tested. No warranty, expressed or implied, is made.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	10.7	3.2	21.2	33.2	31.7	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	98.6		
3/8"	97.6		
#4	89.3		
#10	86.1		
#20	78.0		
#40	64.9		
#60	50.5		
#100	39.2		
#200	31.7		

* (no specification provided)

Soil Description

Dark Brown Organic silty sand

PL= NP Atterberg Limits LL= NV PI= NP
D₉₀= 5.1430 Coefficients D₈₅= 1.6926 D₆₀= 0.3520
D₅₀= 0.2446 D₃₀= D₁₅=
D₁₀= C_u= C_c=

USCS= SM Classification AASHTO= A-2-4(0)

Remarks
Sample description is for informational purposes, and is meant to indicate particle size not inclusion of mineral material.

Source of Sample: Sediment
Sample Number: 2025-SS-1

Date: 03.14.25

Thielsch Engineering Inc.

Cranston, RI

Client: ESS Laboratory
Project: Lily Pond
Nantucket, MA
Project No: 25C0241

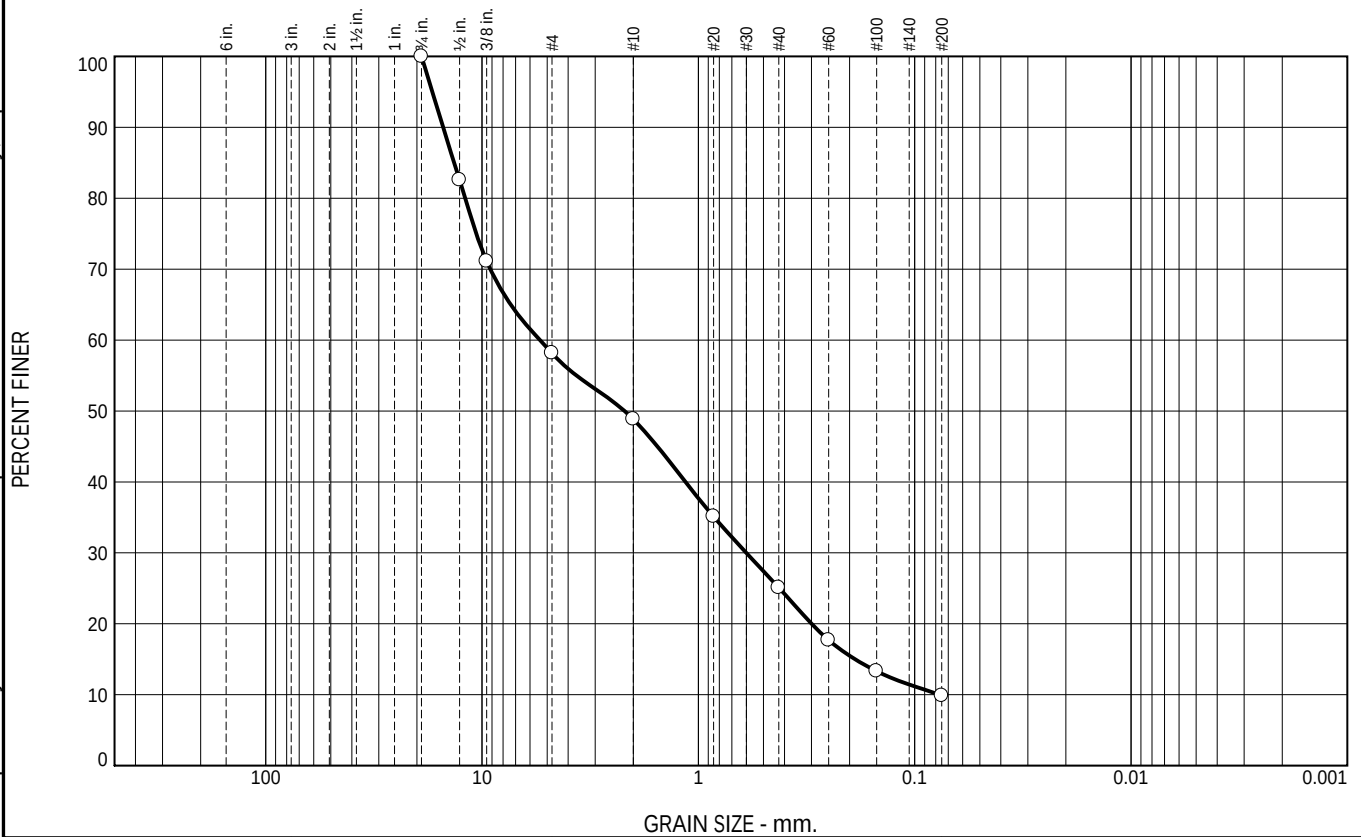
Fig. 25C0241-01

Tested By: RKO/AB

Checked By: Kris Roland

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	41.8	9.4	23.7	15.2	9.9	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	82.6		
3/8"	71.1		
#4	58.2		
#10	48.8		
#20	35.1		
#40	25.1		
#60	17.7		
#100	13.3		
#200	9.9		

* (no specification provided)

Soil Description
Dark Brown Organic poorly graded sand with silt and gravel

Atterberg Limits
PL= NP LL= NV PI= NP

Coefficients
D₉₀= 15.1252 D₈₅= 13.4570 D₆₀= 5.3987
D₅₀= 2.1946 D₃₀= 0.6007 D₁₅= 0.1888
D₁₀= 0.0771 C_u= 70.00 C_c= 0.87

Classification
USCS= SP-SM AASHTO= A-1-a

Remarks
Sample description is for informational purposes, and is meant to indicate particle size not inclusion of mineral material.

Source of Sample: Sediment
Sample Number: 2025-SS-2

Date: 03.14.25

Thielsch Engineering Inc.

Cranston, RI

Client: ESS Laboratory
Project: Lily Pond
Nantucket, MA
Project No: 25C0241

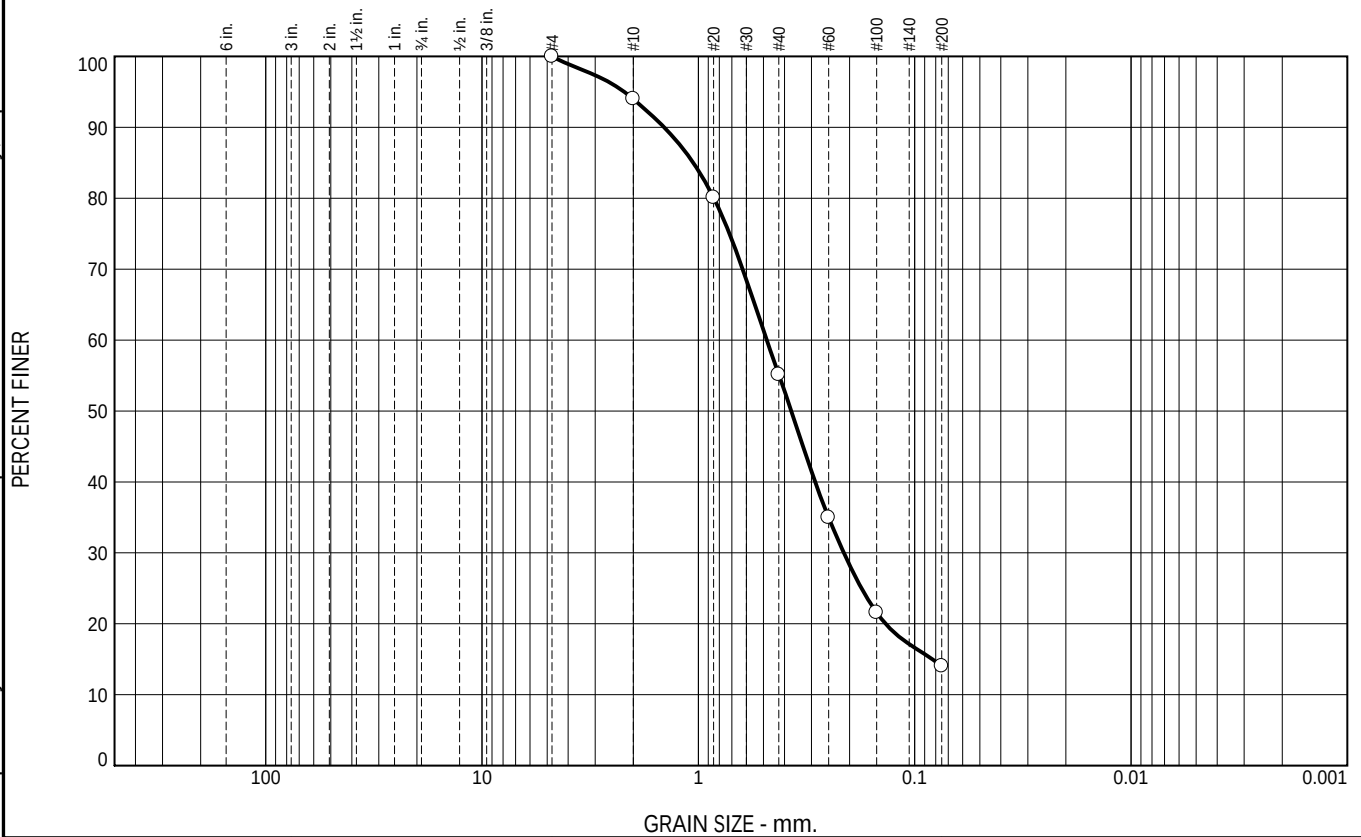
Fig. 25C0241-02

Tested By: RKO/AB

Checked By: Kris Roland

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	6.0	38.9	41.1	14.0	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#10	94.0		
#20	80.1		
#40	55.1		
#60	35.0		
#100	21.6		
#200	14.0		

* (no specification provided)

Source of Sample: Sediment
Sample Number: 2025-SS-3

Date: 03.14.25

Thielsch Engineering Inc.

Cranston, RI

Client: ESS Laboratory
Project: Lily Pond
Nantucket, MA
Project No: 25C0241

Fig. 25C0241-03

Soil Description

Dark Brown Organic silty sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 1.4389 D₈₅= 1.0555 D₆₀= 0.4828
D₅₀= 0.3720 D₃₀= 0.2126 D₁₅= 0.0828
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-2-4(0)

Remarks

Sample description is for informational purposes, and is meant to indicate particle size not inclusion of mineral material.

Tested By: RKO/AB

Checked By: Kris Roland

These results are for the exclusive use of the client for whom they were obtained. This report only relates to items inspect and/or tested. No warranty, expressed or implied, is made.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	15.2	2.5	25.6	26.5	30.2	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	87.3		
3/8"	87.3		
#4	84.8		
#10	82.3		
#20	71.2		
#40	56.7		
#60	45.4		
#100	37.1		
#200	30.2		

* (no specification provided)

Soil Description
Dark Brown Organic silty sand with gravel

PL= NP Atterberg Limits LL= NV PI= NP
Coefficients
D₉₀= 14.7129 D₈₅= 5.0775 D₆₀= 0.4937
D₅₀= 0.3130 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification
USCS= SM AASHTO= A-2-4(0)

Remarks
Sample description is for informational purposes, and is meant to indicate particle size not inclusion of mineral material.

Source of Sample: Sediment
Sample Number: 2025-SS-4

Date: 03.14.25

Thielsch Engineering Inc.

Cranston, RI

Client: ESS Laboratory
Project: Lily Pond
Nantucket, MA
Project No: 25C0241

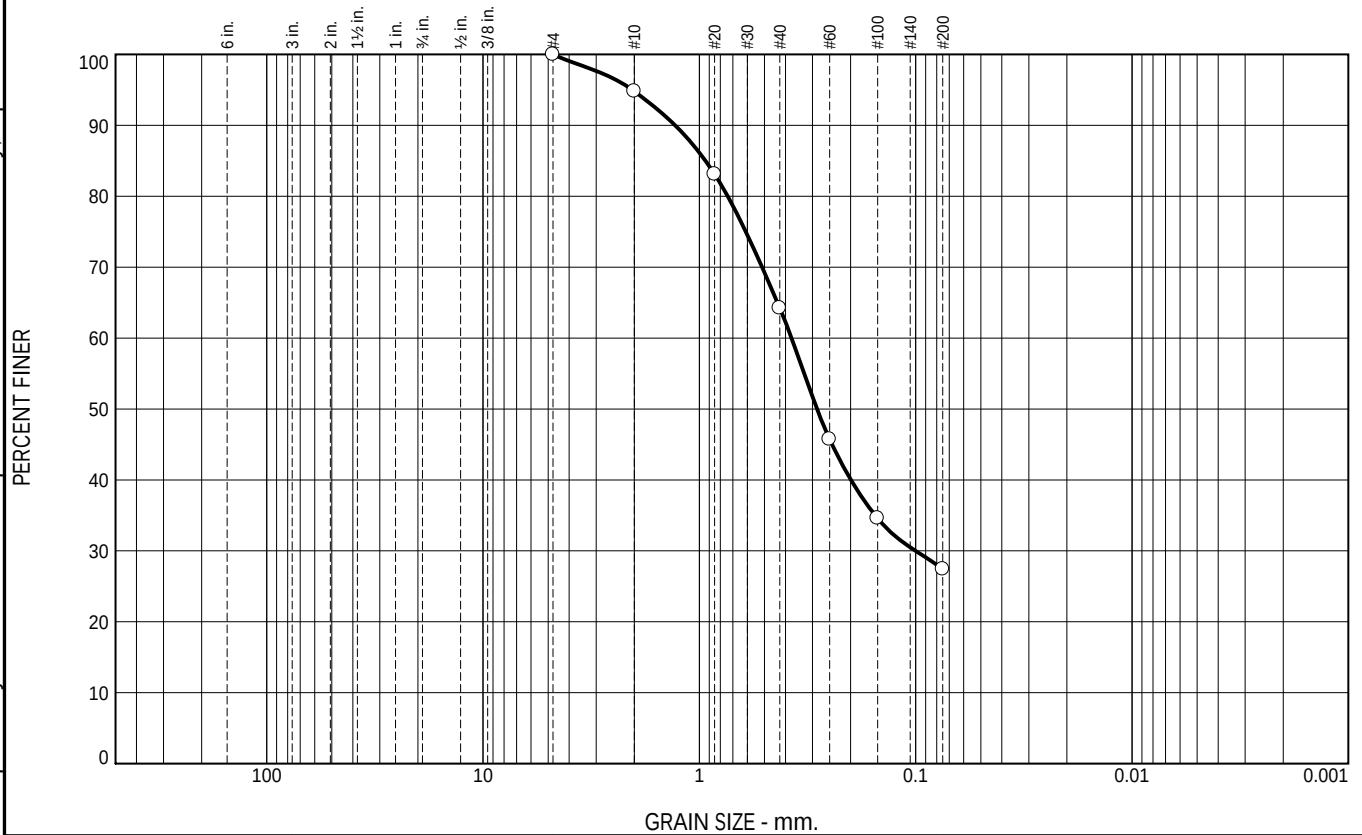
Fig. 25C0241-04

Tested By: RKO/AB

Checked By: Kris Roland

These results are for the exclusive use of the client for whom they were obtained. This report only relates to items inspect and/or tested. No warranty, expressed or implied, is made.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	5.2	30.6	36.8	27.4	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#10	94.8		
#20	83.1		
#40	64.2		
#60	45.7		
#100	34.6		
#200	27.4		

* (no specification provided)

Soil Description

Dark Brown Organic silty sand

PL= NP Atterberg Limits LL= NV PI= NP

Coefficients
D₉₀= 1.2941 D₈₅= 0.9368 D₆₀= 0.3750
D₅₀= 0.2859 D₃₀= 0.1002 D₁₅=
D₁₀= C_u= C_c=

USCS= SM Classification AASHTO= A-2-4(0)

Remarks

Sample description is for informational purposes, and is meant to indicate particle size not inclusion of mineral material.

Source of Sample: Sediment
Sample Number: 2025-SS-5

Date: 03.14.25

Thielsch Engineering Inc.

Cranston, RI

Client: ESS Laboratory
Project: Lily Pond
Nantucket, MA
Project No: 25C0241

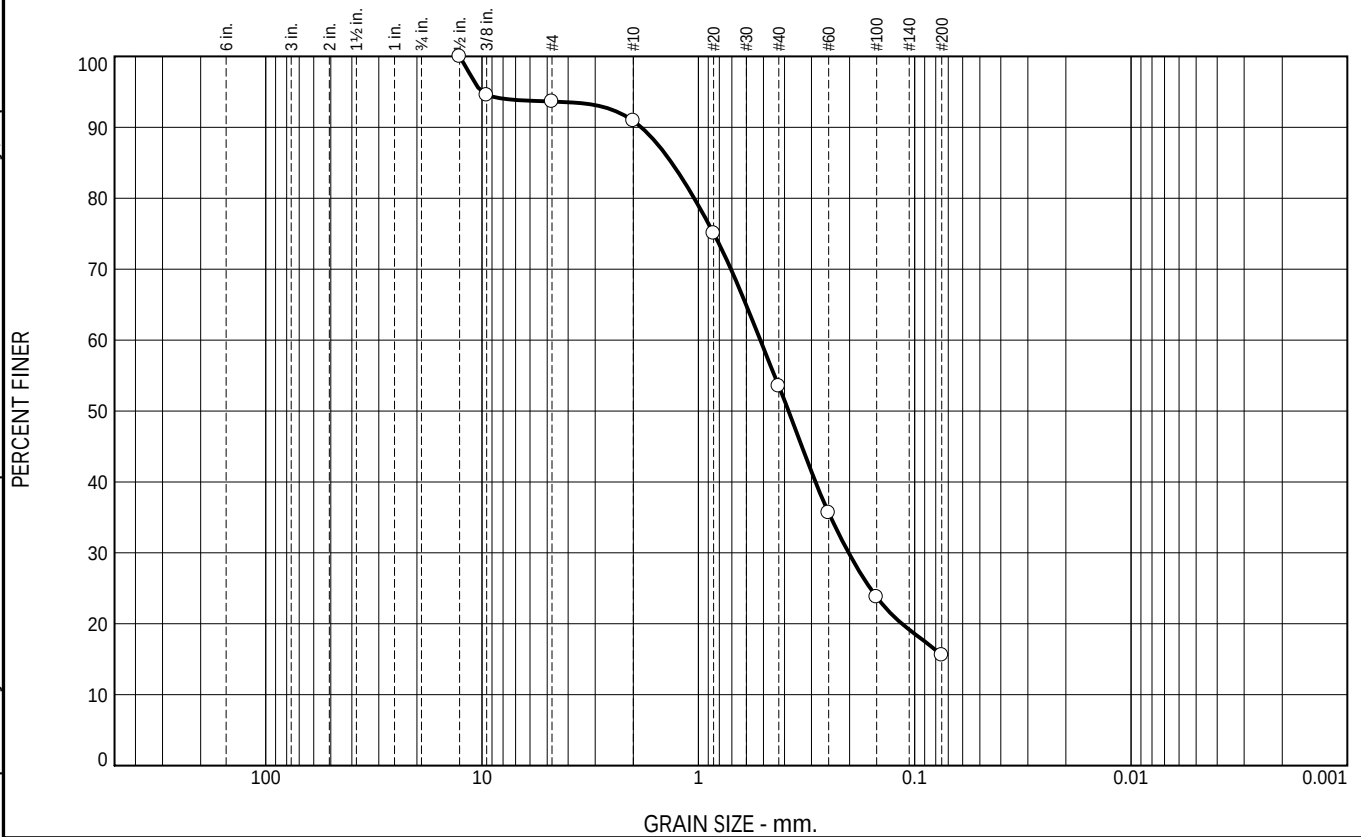
Fig. 25C0241-05

Tested By: RKO/AB

Checked By: Kris Roland

These results are for the exclusive use of the client for whom they were obtained. This report only relates to items inspected and/or tested. No warranty, expressed or implied, is made.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	6.4	2.7	37.4	37.9	15.6	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1/2"	100.0		
3/8"	94.5		
#4	93.6		
#10	90.9		
#20	75.1		
#40	53.5		
#60	35.6		
#100	23.8		
#200	15.6		

* (no specification provided)

Soil Description

Dark Brown Organic silty sand

PL= NP Atterberg Limits LL= NV PI= NP

Coefficients

D₉₀= 1.8329 D₈₅= 1.3278 D₆₀= 0.5174
D₅₀= 0.3830 D₃₀= 0.2019 D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-2-4(0)

Remarks

Sample description is for informational purposes, and is meant to indicate particle size not inclusion of mineral material.

Source of Sample: Sediment
Sample Number: 2025-SS-6

Date: 03.13.25

Thielsch Engineering Inc.

Cranston, RI

Client: ESS Laboratory
Project: Lily Pond
Nantucket, MA
Project No: 25C0241

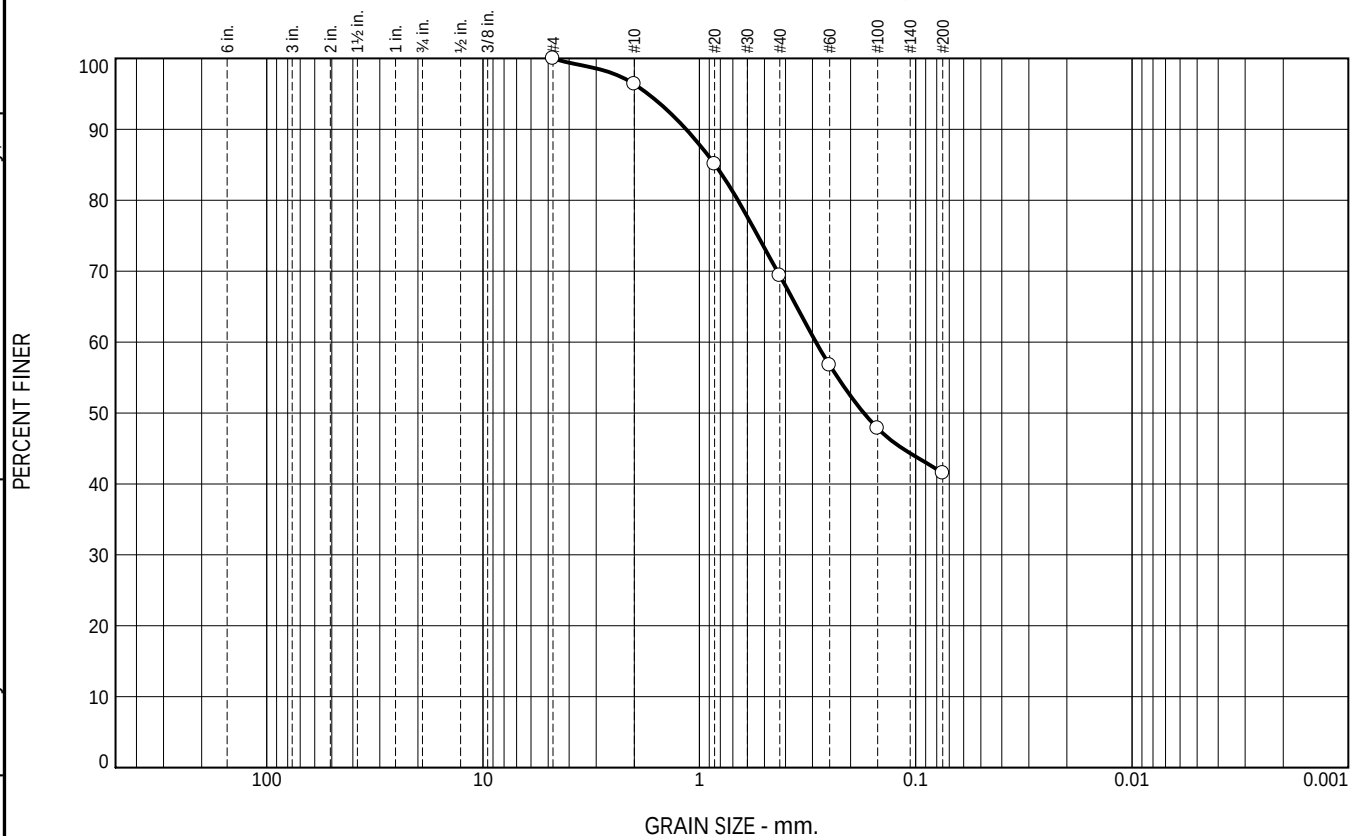
Fig. 25C0241-06

Tested By: RKO/AB

Checked By: Kris Roland

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	3.6	27.0	27.9	41.5	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#10	96.4		
#20	85.1		
#40	69.4		
#60	56.7		
#100	47.8		
#200	41.5		

* (no specification provided)

Source of Sample: Sediment
Sample Number: 2025-SS-7

Date: 03.14.25

Thielsch Engineering Inc.

Cranston, RI

Client: ESS Laboratory
Project: Lily Pond
Nantucket, MA
Project No: 25C0241

Fig. 25C0241-07

Soil Description

Dark Brown Organic silty sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 1.1508 D₈₅= 0.8456 D₆₀= 0.2893
D₅₀= 0.1737 D₃₀= C_u=
D₁₀= C_c=

Classification

USCS= SM AASHTO= A-4(0)

Remarks

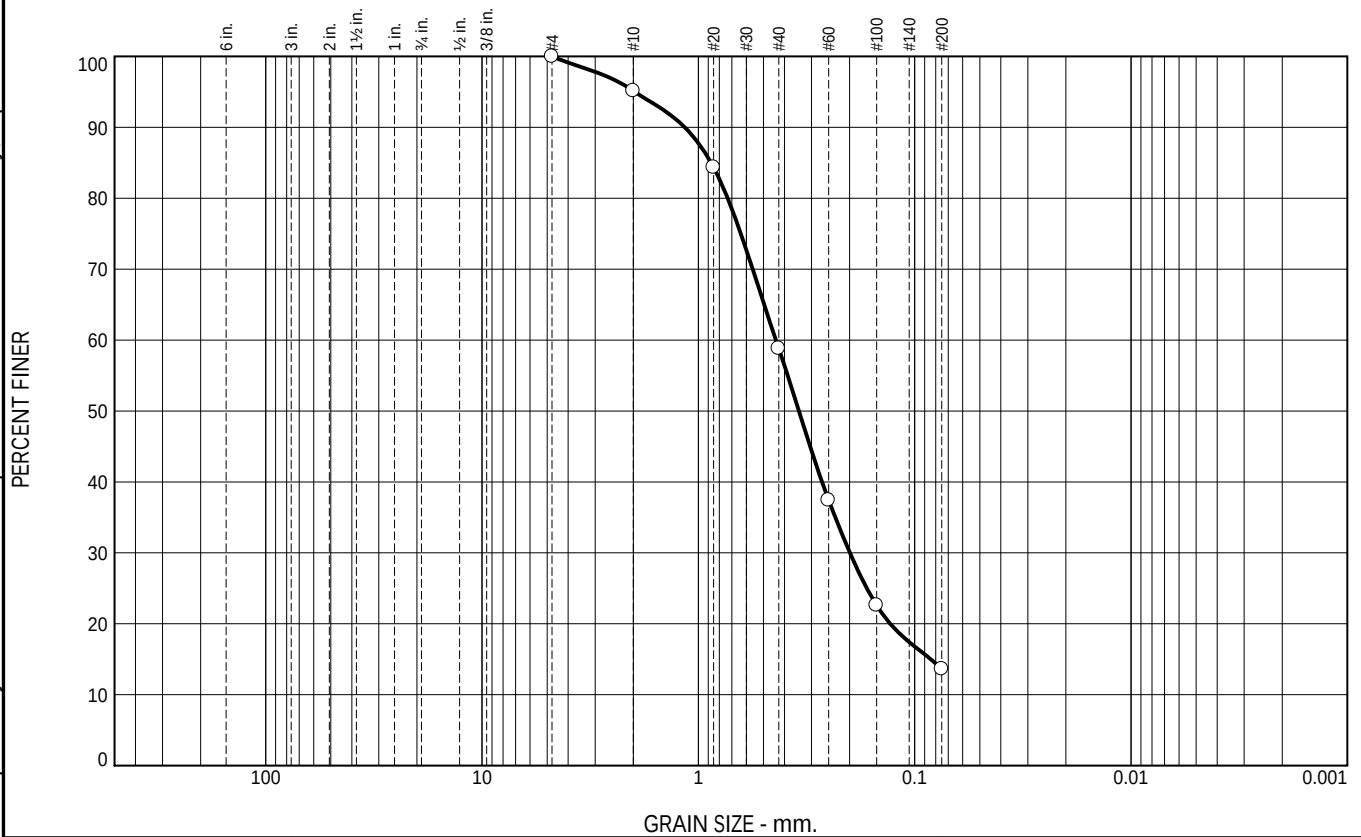
Sample description is for informational purposes, and is meant to indicate particle size not inclusion of mineral material.

Tested By: RKO/AB

Checked By: Kris Roland

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	4.8	36.4	45.2	13.6	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#10	95.2		
#20	84.4		
#40	58.8		
#60	37.4		
#100	22.6		
#200	13.6		

* (no specification provided)

Soil Description

Dark Brown Organic silty sand

PL= NP Atterberg Limits LL= NV PI= NP

Coefficients

D₉₀= 1.1546 D₈₅= 0.8730 D₆₀= 0.4383
D₅₀= 0.3430 D₃₀= 0.1993 D₁₅= 0.0843
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-2-4(0)

Remarks

Sample description is for informational purposes, and is meant to indicate particle size not inclusion of mineral material.

Source of Sample: Sediment
Sample Number: 2025-SS-8

Date: 03.14.25

Thielsch Engineering Inc.

Cranston, RI

Client: ESS Laboratory
Project: Lily Pond
Nantucket, MA
Project No: 25C0241

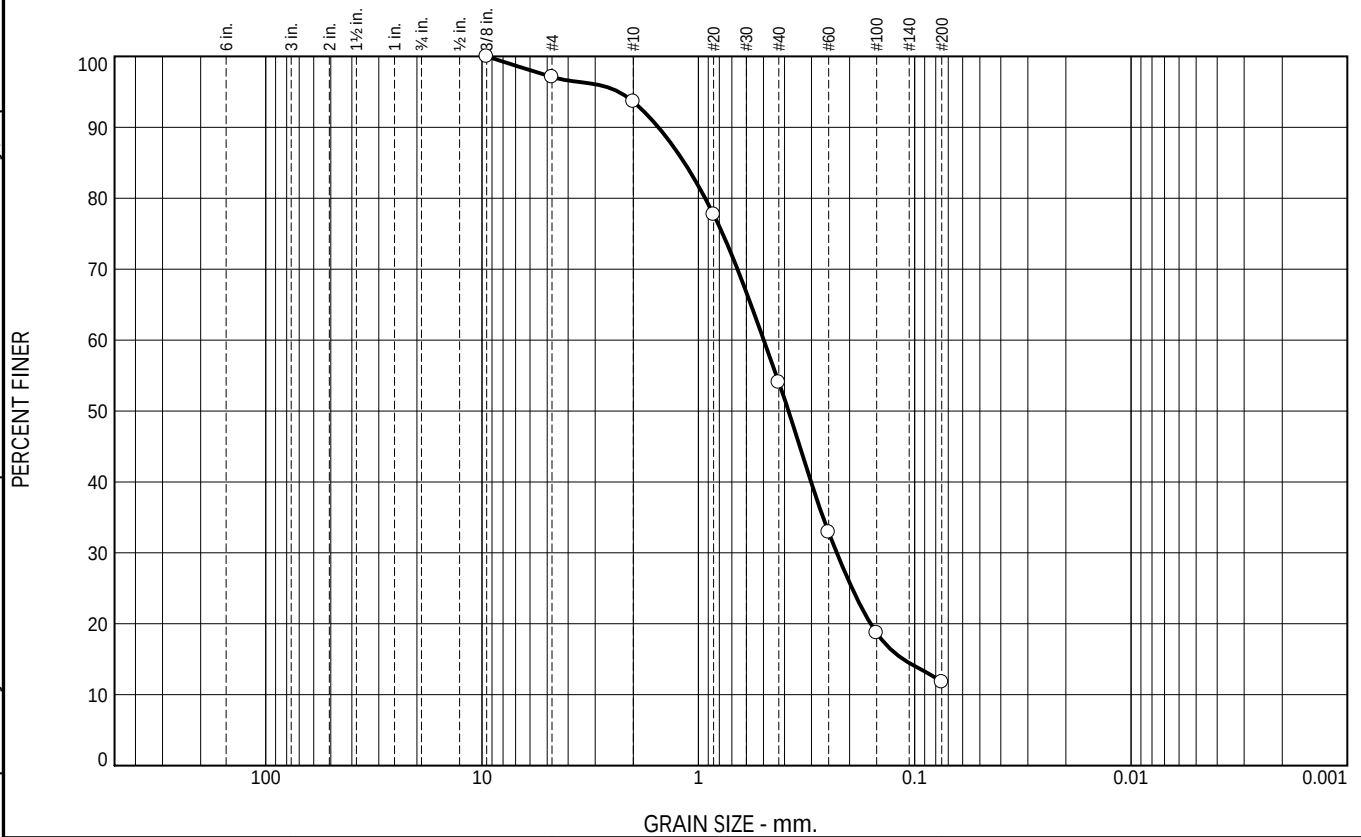
Fig. 25C0241-08

Tested By: RKO/AB

Checked By: Kris Roland

These results are for the exclusive use of the client for whom they were obtained. This report only relates to items inspected and/or tested. No warranty, expressed or implied, is made.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	2.9	3.5	39.6	42.2	11.8	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/8"	100.0		
#4	97.1		
#10	93.6		
#20	77.7		
#40	54.0		
#60	32.9		
#100	18.7		
#200	11.8		

* (no specification provided)

Source of Sample: Sediment
Sample Number: 2025-SS-9

Date: 03.14.25

Thielsch Engineering Inc.

Cranston, RI

Client: ESS Laboratory
Project: Lily Pond
Nantucket, MA
Project No: 25C0241

Fig. 25C0241-09

Soil Description

Dark Brown Organic well-graded sand with silt

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 1.5290 D₈₅= 1.1603 D₆₀= 0.4988
D₅₀= 0.3831 D₃₀= 0.2292 D₁₅= 0.1130
D₁₀= C_u= C_c=

Classification

USCS= SW-SM AASHTO= A-2-4(0)

Remarks

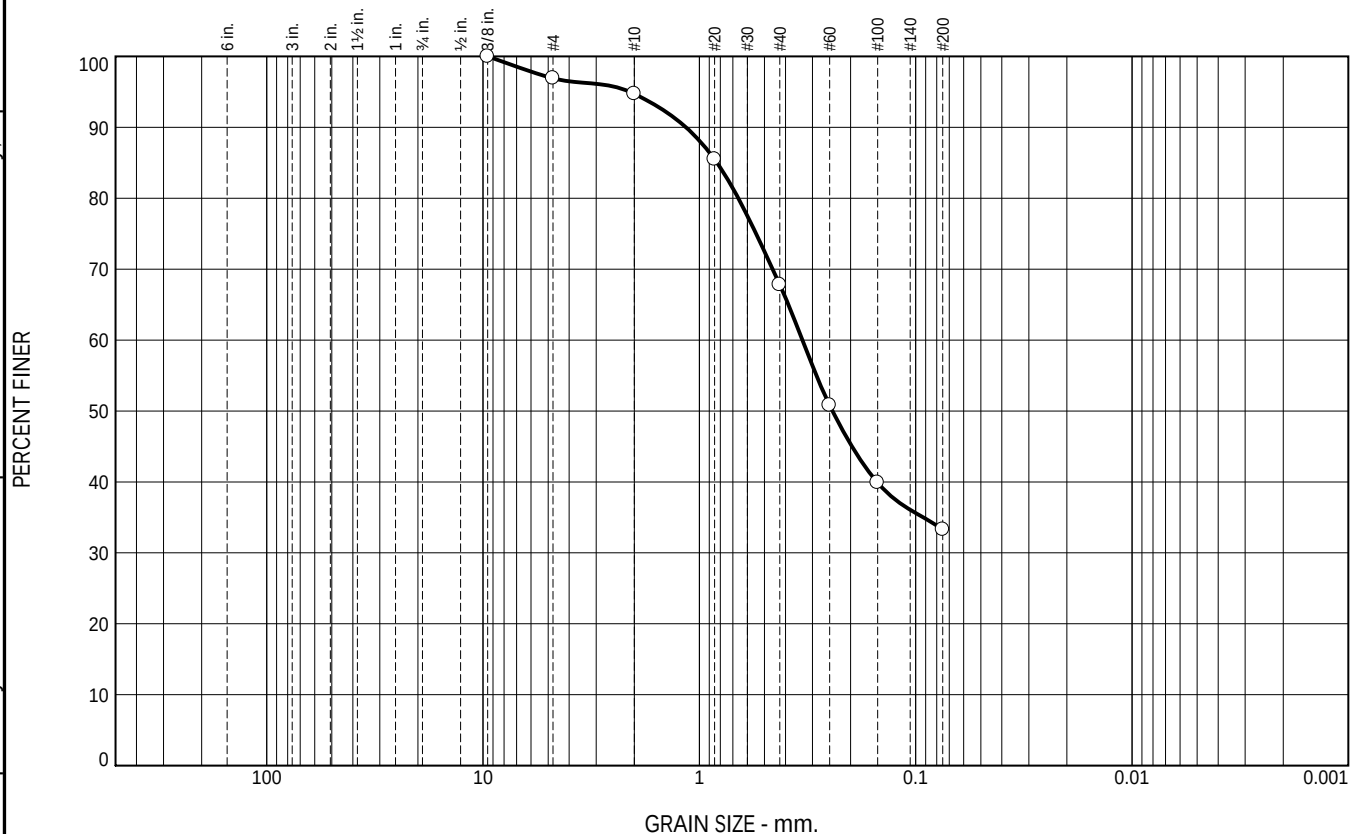
Sample description is for informational purposes, and is meant to indicate particle size not inclusion of mineral material.

Tested By: RKO/AB

Checked By: Kris Roland

These results are for the exclusive use of the client for whom they were obtained. This report only relates to items inspect and/or tested. No warranty, expressed or implied, is made.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	3.1	2.2	26.9	34.5	33.3	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/8"	100.0		
#4	96.9		
#10	94.7		
#20	85.5		
#40	67.8		
#60	50.8		
#100	39.9		
#200	33.3		

* (no specification provided)

Soil Description

Dark Brown Organic silty sand

PL= NP Atterberg Limits LL= NV PI= NP

Coefficients
D₉₀= 1.1526 D₈₅= 0.8277 D₆₀= 0.3340
D₅₀= 0.2425 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification
USCS= SM AASHTO= A-2-4(0)

Remarks

Sample description is for informational purposes, and is meant to indicate particle size not inclusion of mineral material.

Source of Sample: Sediment
Sample Number: 2025-SS-10

Date: 03.14.25

Thielsch Engineering Inc.

Cranston, RI

Client: ESS Laboratory
Project: Lily Pond
Nantucket, MA

Project No: 25C0241

Fig. 25C0241-10

Tested By: RKO/AB

Checked By: Kris Roland

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Horsley Witten Group - TJM

ESS Project ID: 25C0241

Date Received: 3/7/2025

Project Due Date: 3/14/2025

Days for Project: 5 Day

Shipped/Delivered Via: ESS Courier

1. Air bill manifest present? ☐ No
Air No.: NA

2. Were custody seals present? ☐ No

3. Is radiation count <100 CPM? ☐ Yes

4. Is a Cooler Present? ☐ Yes
Temp: 4.4 Iced with: Ice

5. Was COC signed and dated by client? ☐ Yes

6. Does COC match bottles? ☐ Yes

7. Is COC complete and correct? ☐ Yes

8. Were samples received intact? ☐ Yes

9. Were labs informed about short holds & rushes? ☒ Yes / No / NA

10. Were any analyses received outside of hold time? ☒ Yes / No

11. Any Subcontracting needed? ☒ Yes / No

ESS Sample IDs: 1--10

Analysis: Particle size

TAT: 5 day

12. Were VOAs received? ☒ Yes / No

a. Air bubbles in aqueous VOAs? ☒ Yes / No

b. Does methanol cover soil completely? ☒ Yes / No / NA

13. Are the samples properly preserved? ☒ Yes / No

a. If metals preserved upon receipt:

b. If dissolved metals are requested, are they:

c. Low Level VOA vials frozen:

Date: 3/7/25

Yes / No Field Filtered

Date: 3/7/25

Time:

Yes / No To Be Lab Filtered

Time:

By/Acid Lot#:

By: Client

Sample Receiving Notes:

3/2/25 within 48 hours

14. Was there a need to contact Project Manager? ☒ Yes / No

a. Was there a need to contact the client? ☒ Yes / No

Who was contacted?

Date:

Time:

By:

Resolution:

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	645520	Yes	N/A	Yes	8 oz jar	NP	
1	645521	Yes	N/A	Yes	8 oz jar	NP	
1	645651	Yes	N/A	Yes	8 oz jar	NP	
1	645652	Yes	N/A	Yes	8 oz jar	NP	
2	645522	Yes	N/A	Yes	8 oz jar	NP	
2	645523	Yes	N/A	Yes	8 oz jar	NP	
2	645653	Yes	N/A	Yes	8 oz jar	NP	
2	645654	Yes	N/A	Yes	8 oz jar	NP	
3	645524	Yes	N/A	Yes	8 oz jar	NP	
3	645525	Yes	N/A	Yes	8 oz jar	NP	
3	645655	Yes	N/A	Yes	8 oz jar	NP	
3	645656	Yes	N/A	Yes	8 oz jar	NP	
4	645526	Yes	N/A	Yes	8 oz jar	NP	
4	645527	Yes	N/A	Yes	8 oz jar	NP	
4	645657	Yes	N/A	Yes	8 oz jar	NP	
4	645658	Yes	N/A	Yes	8 oz jar	NP	
5	645528	Yes	N/A	Yes	8 oz jar	NP	
5	645529	Yes	N/A	Yes	8 oz jar	NP	
5	645659	Yes	N/A	Yes	8 oz jar	NP	
5	645660	Yes	N/A	Yes	8 oz jar	NP	

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Horsley Witten Group - TJM

ESS Project ID: 25C0241
Date Received: 3/7/2025

6	645530	Yes	N/A	Yes	8 oz jar	NP
6	645531	Yes	N/A	Yes	8 oz jar	NP
6	645661	Yes	N/A	Yes	8 oz jar	NP
6	645662	Yes	N/A	Yes	8 oz jar	NP
7	645532	Yes	N/A	Yes	8 oz jar	NP
7	645533	Yes	N/A	Yes	8 oz jar	NP
7	645663	Yes	N/A	Yes	8 oz jar	NP
7	645664	Yes	N/A	Yes	8 oz jar	NP
8	645534	Yes	N/A	Yes	8 oz jar	NP
8	645535	Yes	N/A	Yes	8 oz jar	NP
8	645665	Yes	N/A	Yes	8 oz jar	NP
8	645666	Yes	N/A	Yes	8 oz jar	NP
9	645536	Yes	N/A	Yes	8 oz jar	NP
9	645537	Yes	N/A	Yes	8 oz jar	NP
9	645667	Yes	N/A	Yes	8 oz jar	NP
9	645668	Yes	N/A	Yes	8 oz jar	NP
10	645538	Yes	N/A	Yes	8 oz jar	NP
10	645539	Yes	N/A	Yes	8 oz jar	NP
10	645669	Yes	N/A	Yes	8 oz jar	NP
10	645670	Yes	N/A	Yes	8 oz jar	NP
11	645480	Yes	N/A	Yes	VOA Vial	DI Water
11	645481	Yes	N/A	Yes	VOA Vial	DI Water
11	645500	Yes	N/A	Yes	VOA Vial	MeOH
11	645510	Yes	N/A	Yes	4 oz. Jar	NP
12	645482	Yes	N/A	Yes	VOA Vial	DI Water
12	645483	Yes	N/A	Yes	VOA Vial	DI Water
12	645501	Yes	N/A	Yes	VOA Vial	MeOH
12	645511	Yes	N/A	Yes	4 oz. Jar	NP
13	645484	Yes	N/A	Yes	VOA Vial	DI Water
13	645485	Yes	N/A	Yes	VOA Vial	DI Water
13	645502	Yes	N/A	Yes	VOA Vial	MeOH
13	645512	Yes	N/A	Yes	4 oz. Jar	NP
14	645486	Yes	N/A	Yes	VOA Vial	DI Water
14	645487	Yes	N/A	Yes	VOA Vial	DI Water
14	645503	Yes	N/A	Yes	VOA Vial	MeOH
14	645513	Yes	N/A	Yes	4 oz. Jar	NP
15	645488	Yes	N/A	Yes	VOA Vial	DI Water
15	645489	Yes	N/A	Yes	VOA Vial	DI Water
15	645504	Yes	N/A	Yes	VOA Vial	MeOH
15	645514	Yes	N/A	Yes	4 oz. Jar	NP
16	645490	Yes	N/A	Yes	VOA Vial	DI Water
16	645491	Yes	N/A	Yes	VOA Vial	DI Water
16	645505	Yes	N/A	Yes	VOA Vial	MeOH
16	645515	Yes	N/A	Yes	4 oz. Jar	NP
17	645492	Yes	N/A	Yes	VOA Vial	DI Water
17	645493	Yes	N/A	Yes	VOA Vial	DI Water
17	645506	Yes	N/A	Yes	VOA Vial	MeOH
17	645516	Yes	N/A	Yes	4 oz. Jar	NP
18	645494	Yes	N/A	Yes	VOA Vial	DI Water
18	645495	Yes	N/A	Yes	VOA Vial	DI Water
18	645507	Yes	N/A	Yes	VOA Vial	MeOH
18	645517	Yes	N/A	Yes	4 oz. Jar	NP
19	645496	Yes	N/A	Yes	VOA Vial	DI Water
19	645497	Yes	N/A	Yes	VOA Vial	DI Water
19	645508	Yes	N/A	Yes	VOA Vial	MeOH
19	645518	Yes	N/A	Yes	4 oz. Jar	NP

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Horsley Witten Group - TJM

ESS Project ID: 25C0241

Date Received: 3/7/2025

20	645498	Yes	N/A	Yes	VOA Vial	DI Water
20	645499	Yes	N/A	Yes	VOA Vial	DI Water
20	645509	Yes	N/A	Yes	VOA Vial	MeOH
20	645519	Yes	N/A	Yes	4 oz. Jar	NP

2nd Review

Were all containers scanned into storage/lab?

Are barcode labels on correct containers?

Are all Flashpoint stickers attached/container ID # circled?

Are all Hex Chrome stickers attached?

Are all QC stickers attached?

Are VOA stickers attached if bubbles noted?

Initials TJM

Yes / No
 Yes / No / NA
 Yes / No / NA
 Yes / No / NA
 Yes / No / NA

Completed

By: [Signature] Date & Time: 3/7/25 1811

Reviewed

By: [Signature] Date & Time: 3/7/25 1830



185 Frances Avenue
Cranston, RI 02921
Phone: 401-461-7181

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CHAIN OF CUSTODY

ESS Lab # 25C.0741 Page 1 of 3

Turn Time ☐ > 5 ☐ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1 ☐ Same Day

Regulatory State: MA Criteria: GW-1/S-1/401WQC

Is this project for any of the following?:

☐ CT RCP ☒ MA MCP ☐ RGP ☐ Permit ☒ 401 WQ

ELECTRONIC DELIVERABLES (Final Reports are PDF)

☒ Limit Checker ☐ State Forms ☐ EQuIS
☒ Excel ☐ Hard Copy ☐ Enviro Data
☐ CLP-Like Package ☐ Other (Specify) →

CLIENT INFORMATION

Client: Horsley Witten Group

Address: 90 Route 1A

Sandwich

Phone: 508-833-6600

Email Distribution List: ghedman@horsleywitten.com

cgran@horsleywitten.com

PROJECT INFORMATION

Project Name: Lily Pond

Project Location: Nantucket, MA

Project Number: 20008C

Project Manager: Gary Hedman

Bill to:

PO#:

Quote#:

Client acknowledges that sampling is compliant with all EPA / State regulatory programs

REQUESTED ANALYSES

ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID	PCPA 8	PCBS	SVOCs full	TPH	EDH	Pest / Herb	pH, cond.	Flash point	Reactivity	Grain size	Toc	1. WATER	TCPLP Lead	Coal Ash	ML - 4/11/25	Total Number of Bottles
1	3/5/25	1320	Comp	Sed	2025-SS-1	X	X	X	X	X	X	X	X	X	X	X	X		X		
2		1115			2025-SS-2																
3		1100			2025-SS-3																
4		1200			2025-SS-4														X		
5		1315			2025-SS-5													X	X		
6		1230			2025-SS-6													X	X		
7		1030			2025-SS-7																
8		9:15			2025-SS-8																
9		9:50			2025-SS-9																
10		900			2025-SS-10																

Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial

Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other*

Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DI H2O 11-Other*

Sampled by: Caroline Gran

Chain needs to be filled out neatly and completely for on time delivery.

Laboratory Use Only

Comments: * Please specify "Other" preservative and containers types in this space

All samples submitted are subject to ESS Laboratory's payment terms and conditions.

Dissolved Filtration

☐ Lab Filter

Cooler Temperature (°C): 4.4

16

meet 401 WQC reporting limits

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
<u>Caroline Gran</u>	<u>3/7/25</u>	<u>14:30</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>3/7/25</u>	<u>17:25</u>	<u>[Signature]</u>
Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)



185 Frances Avenue
Cranston, RI 02921
Phone: 401-461-7181

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CHAIN OF CUSTODY

ESS Lab # 78C0741 Page 2 of 3

Turn Time ☐ > 5 ☐ 5 ☐ 4 ☐ 3 ☐ 2 ☐ 1 ☐ Same Day

Regulatory State: MA Criteria: GW-1/S-1/401

Is this project for any of the following?:

☐ CT RCP ☒ MA MCP ☐ RGP ☐ Permit ☒ 401 WQ

ELECTRONIC DELIVERABLES (Final Reports are PDF)

☒ Limit Checker ☐ State Forms ☐ EQuIS
☒ Excel ☐ Hard Copy ☐ Enviro Data
☐ CLP-Like Package ☐ Other (Specify) →

CLIENT INFORMATION

Client: Horsley Witten Group
Address: 90 Route 1A
Sandwich, MA
Phone: 508-833-6600
Email Distribution List: ghedman@horsleywitten.com
cgran@horsleywitten.com

PROJECT INFORMATION

Project Name: Lily Pond
Project Location: Nantucket IMA
Project Number: 20008C
Project Manager: Gary Hedman
Bill to:
PO#:
Quote#:

Client acknowledges that sampling is compliant with all EPA / State regulatory programs

REQUESTED ANALYSES

ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID	VOCs	SVOCs	Metals	Trace Organics	PCBs	PAHs	Chlorides	Nitrates	Ammonia	Phosphorus	Sulfate	Other	Total Number of Bottles
11	3/5/25	1320	GG	Sed.	2025-SS-1A	X	X											
12		1115			2025-SS-2C	X	X											
13		1045			2025-SS-3A	X	X											
14		1200			2025-SS-4B	X	X											
15		1315			2025-SS-5C	X	X											
16		1230			2025-SS-6A	X	X											
17		1030			2025-SS-7B	X	X											
18		9:15			2025-SS-8C	X	X											
19		9:50			2025-SS-9A	X	X											
20		9:00			2025-SS-10C	X	X											
Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial						✓	J											
Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other*						7	8											
Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAc2, NaOH 9-NH4Cl 10-DI H2O 11-Other*						2	6	1										

Sampled by: Caroline Gran

Chain needs to be filled out neatly and completely for on time delivery.

Laboratory Use Only

Comments: * Please specify "Other" preservative and containers types in this space

Cooler Temperature (°C): 9.4

Grab samples frozen w/in 48 hours of collection with D.I.

All samples submitted are subject to ESS Laboratory's payment terms and conditions.

Dissolved Filtration

☐ Lab Filter

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
<u>Caroline Gran</u>	<u>3/5/25</u>	<u>1430</u>	<u>[Signature]</u> <u>3/7/25</u> <u>14:30</u>	<u>[Signature]</u>	<u>3/7/25</u>	<u>17:38</u>	<u>[Signature]</u>
Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)

CERTIFICATE OF ANALYSIS

Caroline Gran
Horsley & Witten
90 Route 6A
Sandwich, MA 02563

RE: Lily Pond - 401WQ (20008C)
ESS Laboratory Work Order Number: 25C0242

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.



Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 2:04 pm, Mar 21, 2025

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

CTS - Cranston, RI

Grain Size Analysis, Water Content

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

SAMPLE RECEIPT

The following samples were received on March 07, 2025 for the analyses specified on the enclosed Chain of Custody Record.

To achieve CAM compliance for MCP data, ESS Laboratory has reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been performed and achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Limit Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

Sample 25C0242-01 for 401 WQ Metals were oven dried at 60 degrees Celsius prior to digestion and relogged in as sample 25C0242-03. This was done to increase the dry weight of the sample digested which decreases variability of results and lowers the detection limits for samples with high water content.

Low Level VOA vials were frozen by the client within 48 hrs.

Tetrahydrofuran is reported above the MA CAM reporting limit of 0.010 mg/kg.

Question I: All samples for EPH and Metals were analyzed for a subset of the required MCP list per the client's request.

Lab Number	Sample Name	Matrix	Analysis
25C0242-01	2025-SS-11	Sediment	1010A, 2540G, 2550B, 6010D, 7.3.3.2, 7.3.4.1, 7010, 7471B, 8081B, 8082A Cong, 8100M, 8151A, 8270E, 9045, 9050A, EPH8270, EPH8270SIM, LK, MADEP-EPH, SUB
25C0242-02	2025-SS-11B	Sediment	8260D Low
25C0242-03	2025-SS-11 - Oven Dried	Sediment	6010D, 7471B

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

PROJECT NARRATIVE

MADEP-EPH Extractable Petroleum Hydrocarbons

D5C0300-CCV1 [Calibration required quadratic regression \(Q\).](#)
Benzo(a)pyrene (110% @ 80-120%), Benzo(b)fluoranthene (114% @ 80-120%), Dibenzo(a,h)Anthracene (104% @ 80-120%), Indeno(1,2,3-cd)Pyrene (102% @ 80-120%)

Semi-Volatile Organic Compounds

D5C0182-CCV1 [Calibration required quadratic regression \(Q\).](#)
2,4-Dinitrophenol (75% @ 40-160%)
D5C0182-CCV1 [Continuing Calibration %Diff/Drift is below control limit \(CD-\).](#)
N-Nitrosodimethylamine (24% @ 20%)
D5C0182-TUN1 [DDT breakdown > 20%](#)

Total Metals

DC51107-SRM1 [Standard Reference Material is biased low \(R-\).](#)
Lead (77% @ 81-120%)

Volatile Organics Low Level

D5C0185-CCV1 [Calibration required quadratic regression \(Q\).](#)
Bromoform (106% @ 40-160%)
D5C0185-CCV1 [Continuing Calibration %Diff/Drift is below control limit \(CD-\).](#)
Vinyl Chloride (32% @ 20%)
DC51032-BS1 [Blank Spike recovery is below lower control limit \(B-\).](#)
Vinyl Chloride (56% @ 70-130%)
DC51032-BSD1 [Blank Spike recovery is below lower control limit \(B-\).](#)
Vinyl Chloride (59% @ 70-130%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint
6010D - ICP
6020B - ICP MS
7010 - Graphite Furnace
7196A - Hexavalent Chromium
7470A - Aqueous Mercury
7471B - Solid Mercury
8011 - EDB/DBCP/TCP
8015C - GRO/DRO
8081B - Pesticides
8082A - PCB
8100M - TPH
8151A - Herbicides
8260D - VOA
8270E - SVOA
8270E SIM - SVOA Low Level
9014 - Cyanide
9038 - Sulfate
9040C - Aqueous pH
9045D - Solid pH (Corrosivity)
9050A - Specific Conductance
9056A - Anions (IC)
9060A - TOC
9095B - Paint Filter
MADEP 19-2.1 - EPH
MADEP 18-2.1 - VPH

Prep Methods

3005A - Aqueous ICP Digestion
3020A - Aqueous Graphite Furnace / ICP MS Digestion
3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
3060A - Solid Hexavalent Chromium Digestion
3510C - Separatory Funnel Extraction
3520C - Liquid / Liquid Extraction
3540C - Manual Soxhlet Extraction
3546 - Microwave Extraction
3580A - Waste Dilution
5030B - Aqueous Purge and Trap
5030C - Aqueous Purge and Trap
5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

MassDEP Analytical Protocol Certification Form

MADEP RTN: _____

This form provides certification for the following data set: **25C0242-01 through 25C0242-03**

Matrices: ☐ Ground Water/Surface Water ☒ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other: _____

CAM Protocol (check all that apply below):

☐ 8260 VOC CAM II A	☒ 7470/7471 Hg CAM III B	☐ MassDEP VPH (GC/PID/FID) CAM IV A	☒ 8082 PCB CAM V A	☐ 9014 Total Cyanide/PAC CAM VI A	☐ 6860 Perchlorate CAM VIII B
☒ 8270 SVOC CAM II B	☐ 7010 Metals CAM III C	☐ MassDEP VPH (GC/MS) CAM IV C	☒ 8081 Pesticides CAM V B	☐ 7196 Hex Cr CAM VI B	☐ MassDEP APH CAM IX A
☒ 6010 Metals CAM III A	☐ 6020 Metals CAM III D	☒ MassDEP EPH CAM IV B	☒ 8151 Herbicides CAM V C	☐ Explosives CAM VIII A	☐ TO-15 VOC CAM IX B

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

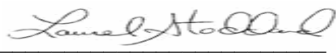
A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	Yes ☒ No ☐
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	Yes ☒ No ☐
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	Yes ☒ No ☐
D	Does the laboratory report comply with all the reporting requirements specified in the CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	Yes ☒ No ☐
E	VPH, EPH, APH and TO-15 only: a. Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes ☒ No ☐ Yes ☐ No ☐
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	Yes ☒ No ☐

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocols(s)? <u>Data User Note:</u> Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40.1056 (2)(k) and WSC-07-350.	Yes ☐ No ☒ *
H	Were all QC performance standards specified in the CAM protocol(s) achieved?	Yes ☐ No ☒ *
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ☐ No ☒ *

****All negative responses must be addressed in an attached laboratory narrative.***

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

Signature: 
Printed Name: Laurel Stoddard

Date: March 21, 2025
Position: Laboratory Director

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-11
Date Sampled: 03/05/25 12:30
Percent Solids: 75

ESS Laboratory Work Order: 25C0242
ESS Laboratory Sample ID: 25C0242-01
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Arsenic	1.81 (1.32)	---	6010D	---	1	CEV	03/10/25 19:13	5.04 100	DC51007
Barium	74.3 (0.53)	---	6010D	---	1	CEV	03/10/25 19:13	5.04 100	DC51007
Cadmium	ND (0.26)	---	6010D	---	1	CEV	03/10/25 19:13	5.04 100	DC51007
Chromium	3.40 (0.53)	---	6010D	---	1	CEV	03/10/25 19:13	5.04 100	DC51007
Lead	126 (2.64)	---	6010D	---	1	CEV	03/10/25 19:13	5.04 100	DC51007
Mercury	0.497 (0.063)	---	7471B	---	5	BJV	03/11/25 14:13	2.09 40	DC51008
Selenium	ND (2.64)	---	7010	---	10	CEV	03/11/25 20:05	5.04 100	DC51007
Silver	1.76 (0.26)	---	6010D	---	1	CEV	03/10/25 19:13	5.04 100	DC51007

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-11
Date Sampled: 03/05/25 12:30
Percent Solids: 75
Initial Volume: 19.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0242
ESS Laboratory Sample ID: 25C0242-01
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
1,1-Biphenyl	ND (0.034)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
1,2,4-Trichlorobenzene	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
1,2-Dichlorobenzene	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
1,3-Dichlorobenzene	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
1,4-Dichlorobenzene	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
2,4,5-Trichlorophenol	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
2,4,6-Trichlorophenol	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
2,4-Dichlorophenol	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
2,4-Dimethylphenol	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
2,4-Dinitrophenol	ND (1.37)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
2,4-Dinitrotoluene	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
2,6-Dinitrotoluene	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
2-Chloronaphthalene	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
2-Chlorophenol	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
2-Methylnaphthalene	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
2-Methylphenol	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
2-Nitrophenol	ND (0.685)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
3,3'-Dichlorobenzidine	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
3+4-Methylphenol	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
4-Bromophenyl-phenylether	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
4-Chloroaniline	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
4-Nitrophenol	ND (1.37)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Acenaphthene	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Acenaphthylene	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Acetophenone	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Aniline	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Anthracene	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-11
Date Sampled: 03/05/25 12:30
Percent Solids: 75
Initial Volume: 19.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0242
ESS Laboratory Sample ID: 25C0242-01
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
Azobenzene	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Benzo(a)anthracene	0.465 (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Benzo(a)pyrene	0.481 (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Benzo(b)fluoranthene	0.506 (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Benzo(g,h,i)perylene	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Benzo(k)fluoranthene	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
bis(2-Chloroethoxy)methane	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
bis(2-Chloroethyl)ether	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
bis(2-chloroisopropyl)Ether	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
bis(2-Ethylhexyl)phthalate	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Butylbenzylphthalate	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Chrysene	0.537 (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Dibenzo(a,h)Anthracene	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Dibenzofuran	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Diethylphthalate	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Dimethylphthalate	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Di-n-butylphthalate	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Di-n-octylphthalate	ND (0.685)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Fluoranthene	0.984 (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Fluorene	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Hexachlorobenzene	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Hexachlorobutadiene	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Hexachloroethane	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Indeno(1,2,3-cd)Pyrene	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Isophorone	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Naphthalene	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Nitrobenzene	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-11
Date Sampled: 03/05/25 12:30
Percent Solids: 75
Initial Volume: 19.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0242
ESS Laboratory Sample ID: 25C0242-01
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: TJ
Prepared: 3/7/25 20:35

Semi-Volatile Organic Compounds

Analyte	Results (MRL)	MDL	Method	Limit	DF	Analyst	Analyzed	Sequence	Batch
N-Nitrosodimethylamine	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Pentachlorophenol	ND (1.37)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Phenanthrene	0.383 (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Phenol	ND (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743
Pyrene	0.824 (0.343)	---	8270E	---	1	TJ	03/11/25 1:29	D5C0182	DC50743

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	88 %		30-130
Surrogate: 2,4,6-Tribromophenol	88 %		30-130
Surrogate: 2-Chlorophenol-d4	81 %		30-130
Surrogate: 2-Fluorobiphenyl	82 %		30-130
Surrogate: 2-Fluorophenol	78 %		30-130
Surrogate: Nitrobenzene-d5	76 %		30-130
Surrogate: Phenol-d6	81 %		30-130
Surrogate: p-Terphenyl-d14	90 %		30-130

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
 Client Project ID: Lily Pond - 401WQ
 Client Sample ID: 2025-SS-11
 Date Sampled: 03/05/25 12:30
 Percent Solids: 75
 Initial Volume: 25.3g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 25C0242
 ESS Laboratory Sample ID: 25C0242-01
 Sample Matrix: Sediment
 Units: mg/kg dry

Prepared: 3/12/25 15:52

MADEP-EPH Extractable Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
C9-C18 Aliphatics1	ND (13.1)	---	MADEP-EPH	---	1	JDN	03/13/25 16:00	D5C0216	DC51203
C19-C36 Aliphatics1	ND (13.1)	---	MADEP-EPH	---	1	JDN	03/13/25 16:00	D5C0216	DC51203
C11-C22 Unadjusted Aromatics1	ND (13.1)	---	EPH8270	---	1	DMC	03/13/25 17:57	D5C0258	DC51203
C11-C22 Aromatics1,2	ND (13.3)	---	EPH8270	---		TJ	03/14/25 19:11	---	[CALC]
2-Methylnaphthalene	ND (0.011)	---	EPH8270SIM	---	1	TJ	03/14/25 19:11	D5C0300	DC51203
Acenaphthene	ND (0.011)	---	EPH8270SIM	---	1	TJ	03/14/25 19:11	D5C0300	DC51203
Naphthalene	0.012 (0.011)	---	EPH8270SIM	---	1	TJ	03/14/25 19:11	D5C0300	DC51203
Phenanthrene	0.303 (0.011)	---	EPH8270SIM	---	1	TJ	03/14/25 19:11	D5C0300	DC51203
Acenaphthylene	0.019 (0.011)	---	EPH8270SIM	---	1	TJ	03/14/25 19:11	D5C0300	DC51203
Anthracene	0.055 (0.011)	---	EPH8270SIM	---	1	TJ	03/14/25 19:11	D5C0300	DC51203
Benzo(a)anthracene	0.297 (0.011)	---	EPH8270SIM	---	1	TJ	03/14/25 19:11	D5C0300	DC51203
Benzo(a)pyrene	0.266 (0.011)	---	EPH8270SIM	---	1	TJ	03/14/25 19:11	D5C0300	DC51203
Benzo(b)fluoranthene	0.220 (0.011)	---	EPH8270SIM	---	1	TJ	03/14/25 19:11	D5C0300	DC51203
Benzo(g,h,i)perylene	0.159 (0.011)	---	EPH8270SIM	---	1	TJ	03/14/25 19:11	D5C0300	DC51203
Benzo(k)fluoranthene	0.225 (0.011)	---	EPH8270SIM	---	1	TJ	03/14/25 19:11	D5C0300	DC51203
Chrysene	0.294 (0.011)	---	EPH8270SIM	---	1	TJ	03/14/25 19:11	D5C0300	DC51203
Dibenzo(a,h)Anthracene	0.077 (0.011)	---	EPH8270SIM	---	1	TJ	03/14/25 19:11	D5C0300	DC51203
Fluoranthene	0.620 (0.011)	---	EPH8270SIM	---	1	TJ	03/14/25 19:11	D5C0300	DC51203
Fluorene	0.015 (0.011)	---	EPH8270SIM	---	1	TJ	03/14/25 19:11	D5C0300	DC51203
Indeno(1,2,3-cd)Pyrene	0.141 (0.011)	---	EPH8270SIM	---	1	TJ	03/14/25 19:11	D5C0300	DC51203
Pyrene	0.544 (0.011)	---	EPH8270SIM	---	1	TJ	03/14/25 19:11	D5C0300	DC51203

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1-Chlorooctadecane</i>	64 %		40-140
<i>Surrogate: 2-Bromonaphthalene</i>	101 %		40-140
<i>Surrogate: 2-Fluorobiphenyl</i>	95 %		40-140
<i>Surrogate: O-Terphenyl</i>	70 %		40-140

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-11
Date Sampled: 03/05/25 12:30
Percent Solids: 75
Initial Volume: 20.2g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0242
ESS Laboratory Sample ID: 25C0242-01
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: DMC
Prepared: 3/10/25 10:18

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD [2C]	ND (0.0033)	---	8081B	---	1	03/11/25 22:16	D5C0200	DC51003
4,4'-DDE [2C]	0.0063 (0.0033)	---	8081B	---	1	03/11/25 22:16	D5C0200	DC51003
4,4'-DDT [2C]	0.0037 (0.0033)	---	8081B	---	1	03/11/25 22:16	D5C0200	DC51003
Aldrin	ND (0.0033)	---	8081B	---	1	03/11/25 22:16	D5C0200	DC51003
alpha-BHC	ND (0.0033)	---	8081B	---	1	03/11/25 22:16	D5C0200	DC51003
alpha-Chlordane	ND (0.0033)	---	8081B	---	1	03/11/25 22:16	D5C0200	DC51003
beta-BHC	ND (0.0033)	---	8081B	---	1	03/11/25 22:16	D5C0200	DC51003
Chlordane (Total)	ND (0.0263)	---	8081B	---	1	03/11/25 22:16	D5C0200	DC51003
delta-BHC	ND (0.0033)	---	8081B	---	1	03/11/25 22:16	D5C0200	DC51003
Dieldrin	ND (0.0033)	---	8081B	---	1	03/11/25 22:16	D5C0200	DC51003
Endosulfan I	ND (0.0033)	---	8081B	---	1	03/11/25 22:16	D5C0200	DC51003
Endosulfan II	ND (0.0033)	---	8081B	---	1	03/11/25 22:16	D5C0200	DC51003
Endosulfan Sulfate	ND (0.0033)	---	8081B	---	1	03/11/25 22:16	D5C0200	DC51003
Endrin	ND (0.0033)	---	8081B	---	1	03/11/25 22:16	D5C0200	DC51003
Endrin Ketone	ND (0.0033)	---	8081B	---	1	03/11/25 22:16	D5C0200	DC51003
gamma-BHC (Lindane)	ND (0.0020)	---	8081B	---	1	03/11/25 22:16	D5C0200	DC51003
gamma-Chlordane	ND (0.0033)	---	8081B	---	1	03/11/25 22:16	D5C0200	DC51003
Heptachlor	ND (0.0033)	---	8081B	---	1	03/11/25 22:16	D5C0200	DC51003
Heptachlor Epoxide	ND (0.0033)	---	8081B	---	1	03/11/25 22:16	D5C0200	DC51003
Hexachlorobenzene	ND (0.0033)	---	8081B	---	1	03/11/25 22:16	D5C0200	DC51003
Methoxychlor	ND (0.0033)	---	8081B	---	1	03/11/25 22:16	D5C0200	DC51003

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	70 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	75 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	62 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	59 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-11
Date Sampled: 03/05/25 12:30
Percent Solids: 75
Initial Volume: 10g
Final Volume: 4ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0242
ESS Laboratory Sample ID: 25C0242-01
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: DMC
Prepared: 3/11/25 18:00

8151A Chlorinated Herbicides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
2,4,5-T	ND (0.013)	---	8151A	---	1	03/14/25 2:55	D5C0281	DC51147
2,4,5-TP (Silvex)	ND (0.013)	---	8151A	---	1	03/14/25 2:55	D5C0281	DC51147
2,4-D	ND (0.062)	---	8151A	---	1	03/14/25 2:55	D5C0281	DC51147
2,4-DB	ND (0.063)	---	8151A	---	1	03/14/25 2:55	D5C0281	DC51147
Dalapon	ND (0.060)	---	8151A	---	1	03/14/25 2:55	D5C0281	DC51147
Dicamba	ND (0.012)	---	8151A	---	1	03/14/25 2:55	D5C0281	DC51147
Dichlorprop	ND (0.062)	---	8151A	---	1	03/14/25 2:55	D5C0281	DC51147
MCPA	ND (3.09)	---	8151A	---	1	03/14/25 2:55	D5C0281	DC51147
MCPP	ND (3.12)	---	8151A	---	1	03/14/25 2:55	D5C0281	DC51147

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: DCAA</i>	83 %		30-150
<i>Surrogate: DCAA [2C]</i>	77 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-11
Date Sampled: 03/05/25 12:30
Percent Solids: 75
Initial Volume: 19.7g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 25C0242
ESS Laboratory Sample ID: 25C0242-01
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: JDN
Prepared: 3/7/25 22:15

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons (C9-C36)	33.9 (13.5)	---	8100M	---	1	03/10/25 22:38	---	DC50744
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
Surrogate: O-Terphenyl		77 %		40-140				

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-11
Date Sampled: 03/05/25 12:30
Percent Solids: 75

ESS Laboratory Work Order: 25C0242
ESS Laboratory Sample ID: 25C0242-01
Sample Matrix: Sediment

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 63 (5)	---	9050A	---	1	JLK	03/07/25 21:26	umhos/cm	DC50736
Corrosivity (pH)	5.94 (N/A)	---	9045	---	1	CCP	03/07/25 20:17	S.U.	DC50725
Corrosivity (pH) Sample Temp	19.5	---	2550B	---	1	CCP	03/07/25 20:17	°C	DC50725
Flashpoint	> 200 (N/A)	---	1010A	---	1	CCP	03/10/25 15:30	°F	DC51036
Percent Moisture	25 (1)	---	2540G	---	1	EAG	03/11/25 14:00	%	DC51111
Reactive Cyanide	ND (2.0)	---	7.3.3.2	---	1	EAM	03/10/25 16:29	mg/kg	DC51035
Reactive Sulfide	ND (2.0)	---	7.3.4.1	---	1	EAM	03/10/25 16:29	mg/kg	DC51035
Total Organic Carbon (Average)	24600 (500)	---	LK	---	1	CCP	03/20/25 16:45	mg/kg	[CALC]

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
 Client Project ID: Lily Pond - 401WQ
 Client Sample ID: 2025-SS-11
 Date Sampled: 03/05/25 12:30

ESS Laboratory Work Order: 25C0242
 ESS Laboratory Sample ID: 25C0242-01
 Sample Matrix: Sediment

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Grain Size	See Attached (N/A)	---		---				%	
Water Content	See Attached (N/A)	---		---				%	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-11
Date Sampled: 03/05/25 12:30
Percent Solids: 75
Initial Volume: 29.7g
Final Volume: 2ml
Extraction Method: 3540C

ESS Laboratory Work Order: 25C0242
ESS Laboratory Sample ID: 25C0242-01
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: JLG
Prepared: 3/11/25 10:28

8082 Polychlorinated Biphenyls (PCB) / Congeners

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
BZ#8	ND (0.00036)	---	8082A Cong	---	1	03/13/25 17:06	D5C0271	DC51104
BZ#18	ND (0.00036)	---	8082A Cong	---	1	03/13/25 17:06	D5C0271	DC51104
BZ#28	ND (0.00036)	---	8082A Cong	---	1	03/13/25 17:06	D5C0271	DC51104
BZ#44	ND (0.00036)	---	8082A Cong	---	1	03/13/25 17:06	D5C0271	DC51104
BZ#52	ND (0.00036)	---	8082A Cong	---	1	03/13/25 17:06	D5C0271	DC51104
BZ#66	ND (0.00036)	---	8082A Cong	---	1	03/13/25 17:06	D5C0271	DC51104
BZ#101	ND (0.00036)	---	8082A Cong	---	1	03/13/25 17:06	D5C0271	DC51104
BZ#105 [2C]	ND (0.00036)	---	8082A Cong	---	1	03/13/25 17:06	D5C0271	DC51104
BZ#118	ND (0.00036)	---	8082A Cong	---	1	03/13/25 17:06	D5C0271	DC51104
BZ#128	ND (0.00036)	---	8082A Cong	---	1	03/13/25 17:06	D5C0271	DC51104
BZ#138	ND (0.00036)	---	8082A Cong	---	1	03/13/25 17:06	D5C0271	DC51104
BZ#153 [2C]	ND (0.00036)	---	8082A Cong	---	1	03/13/25 17:06	D5C0271	DC51104
BZ#170	ND (0.00036)	---	8082A Cong	---	1	03/13/25 17:06	D5C0271	DC51104
BZ#180	ND (0.00036)	---	8082A Cong	---	1	03/13/25 17:06	D5C0271	DC51104
BZ#187	ND (0.00036)	---	8082A Cong	---	1	03/13/25 17:06	D5C0271	DC51104
BZ#195	ND (0.00036)	---	8082A Cong	---	1	03/13/25 17:06	D5C0271	DC51104
BZ#206	ND (0.00036)	---	8082A Cong	---	1	03/13/25 17:06	D5C0271	DC51104
BZ#209	ND (0.00036)	---	8082A Cong	---	1	03/13/25 17:06	D5C0271	DC51104

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	74 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	69 %		30-150

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-11B
Date Sampled: 03/05/25 12:30
Percent Solids: 81
Initial Volume: 4.8g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0242
ESS Laboratory Sample ID: 25C0242-02
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
1,1,1-Trichloroethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
1,1,2,2-Tetrachloroethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
1,1,2-Trichloroethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
1,1-Dichloroethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
1,1-Dichloroethene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
1,1-Dichloropropene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
1,2,3-Trichlorobenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
1,2,3-Trichloropropane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
1,2,4-Trichlorobenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
1,2,4-Trimethylbenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
1,2-Dibromo-3-Chloropropane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
1,2-Dibromoethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
1,2-Dichlorobenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
1,2-Dichloroethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
1,2-Dichloropropane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
1,3,5-Trimethylbenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
1,3-Dichlorobenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
1,3-Dichloropropane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
1,4-Dichlorobenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
1,4-Dioxane	ND (0.128)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
2,2-Dichloropropane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
2-Butanone	ND (0.0641)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
2-Chlorotoluene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
2-Hexanone	ND (0.0641)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
4-Chlorotoluene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
4-Isopropyltoluene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-11B
Date Sampled: 03/05/25 12:30
Percent Solids: 81
Initial Volume: 4.8g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0242
ESS Laboratory Sample ID: 25C0242-02
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4-Methyl-2-Pentanone	ND (0.0641)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Acetone	ND (0.0641)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Benzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Bromobenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Bromochloromethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Bromodichloromethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Bromoform	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Bromomethane	ND (0.0128)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Carbon Disulfide	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Carbon Tetrachloride	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Chlorobenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Chloroethane	ND (0.0128)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Chloroform	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Chloromethane	ND (0.0128)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
cis-1,2-Dichloroethene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
cis-1,3-Dichloropropene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Dibromochloromethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Dibromomethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Dichlorodifluoromethane	ND (0.0128)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Diethyl Ether	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Di-isopropyl ether	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Ethyl tertiary-butyl ether	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Ethylbenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Hexachlorobutadiene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Isopropylbenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Methyl tert-Butyl Ether	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Methylene Chloride	ND (0.0321)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-11B
Date Sampled: 03/05/25 12:30
Percent Solids: 81
Initial Volume: 4.8g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 25C0242
ESS Laboratory Sample ID: 25C0242-02
Sample Matrix: Sediment
Units: mg/kg dry
Analyst: MEK
Prepared: 3/10/25 8:00

Volatile Organics Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Naphthalene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
n-Butylbenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
n-Propylbenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
sec-Butylbenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Styrene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
tert-Butylbenzene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Tertiary-amyl methyl ether	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Tetrachloroethene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Tetrahydrofuran	ND (0.0256)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Toluene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
trans-1,2-Dichloroethene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
trans-1,3-Dichloropropene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Trichloroethene	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Trichlorofluoromethane	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Vinyl Chloride	ND (0.0128)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Xylene O	ND (0.0064)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Xylene P,M	ND (0.0128)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032
Xylenes (Total)	ND (0.0128)	---	8260D Low	---	1	MEK	03/10/25 12:06	D5C0185	DC51032

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>101 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>88 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>97 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>106 %</i>		<i>70-130</i>

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ
Client Sample ID: 2025-SS-11 - Oven Dried
Date Sampled: 03/05/25 12:30
Percent Solids: 100

ESS Laboratory Work Order: 25C0242
ESS Laboratory Sample ID: 25C0242-03
Sample Matrix: Sediment
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>IV / FV</u>	<u>Batch</u>
Arsenic	1.61 (0.36)	---	6010D	---	1	CEV	03/12/25 14:05	5.59 100	DC51107
Cadmium	ND (0.09)	---	6010D	---	1	CEV	03/12/25 14:05	5.59 100	DC51107
Chromium	4.36 (0.36)	---	6010D	---	1	CEV	03/12/25 14:05	5.59 100	DC51107
Copper	8.27 (0.89)	---	6010D	---	1	CEV	03/12/25 14:05	5.59 100	DC51107
Lead	78.4 (1.79)	---	6010D	---	1	CEV	03/12/25 14:05	5.59 100	DC51107
Mercury	1.91 (0.476)	---	7471B	---	50	BJV	03/11/25 16:43	2.08 40	DC51121
Nickel	2.52 (0.89)	---	6010D	---	1	CEV	03/12/25 14:05	5.59 100	DC51107
Zinc	30.8 (0.89)	---	6010D	---	1	CEV	03/12/25 14:05	5.59 100	DC51107

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals										
Batch DC51007 - 3050B										
Blank										
Arsenic	ND	2.34	mg/kg wet							
Barium	ND	0.93	mg/kg wet							
Cadmium	ND	0.47	mg/kg wet							
Chromium	ND	0.93	mg/kg wet							
Lead	ND	4.67	mg/kg wet							
Silver	ND	0.47	mg/kg wet							
Blank										
Selenium	ND	5.00	mg/kg wet							
LCS										
Arsenic	132	7.81	mg/kg wet	280.0		47	32-110			
Barium	333	3.12	mg/kg wet	688.0		48	33-110			
Cadmium	93.2	1.56	mg/kg wet	210.0		44	33-110			
Chromium	157	3.12	mg/kg wet	225.0		70	50-110			
Lead	166	15.6	mg/kg wet	350.0		47	31-110			
Silver	43.8	1.56	mg/kg wet	95.00		46	30-111			
LCS										
Selenium	189	78.1	mg/kg wet	320.0		59	29-110			
LCS Dup										
Arsenic	123	8.20	mg/kg wet	280.0		44	32-110	7	30	
Barium	298	3.28	mg/kg wet	688.0		43	33-110	11	30	
Cadmium	87.3	1.64	mg/kg wet	210.0		42	33-110	7	30	
Chromium	147	3.28	mg/kg wet	225.0		65	50-110	7	30	
Lead	155	16.4	mg/kg wet	350.0		44	31-110	7	30	
Silver	40.1	1.64	mg/kg wet	95.00		42	30-111	9	30	
LCS Dup										
Selenium	167	82.0	mg/kg wet	320.0		52	29-110	12	30	
Batch DC51008 - 7471B										
Blank										
Mercury	ND	0.029	mg/kg wet							
LCS										
Mercury	18.5	3.09	mg/kg wet	24.00		77	56-110			
LCS Dup										
Mercury	18.4	2.91	mg/kg wet	24.00		77	56-110	0.2	30	
Batch DC51107 - 3050B										
Blank										
Arsenic	ND	0.87	mg/kg wet							
Cadmium	ND	0.22	mg/kg wet							
Chromium	ND	0.87	mg/kg wet							
Copper	ND	2.18	mg/kg wet							
Lead	ND	4.37	mg/kg wet							
Nickel	ND	2.18	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Total Metals

Batch DC51107 - 3050B

Zinc	ND	2.18	mg/kg wet							

LCS

Arsenic	124	3.03	mg/kg wet	280.0		44	32-110			
Cadmium	85.2	0.76	mg/kg wet	210.0		41	33-110			
Chromium	145	3.03	mg/kg wet	225.0		64	50-110			
Copper	127	7.58	mg/kg wet	290.0		44	33-110			
Lead	153	15.2	mg/kg wet	350.0		44	31-110			
Nickel	60.4	7.58	mg/kg wet	95.00		64	48-111			
Zinc	210	7.58	mg/kg wet	500.0		42	30-110			

LCS Dup

Arsenic	127	2.99	mg/kg wet	280.0		45	32-110	2	30	
Cadmium	90.8	0.75	mg/kg wet	210.0		43	33-110	6	30	
Chromium	152	2.99	mg/kg wet	225.0		68	50-110	5	30	
Copper	135	7.46	mg/kg wet	290.0		47	33-110	6	30	
Lead	159	14.9	mg/kg wet	350.0		45	31-110	4	30	
Nickel	63.4	7.46	mg/kg wet	95.00		67	48-111	5	30	
Zinc	221	7.46	mg/kg wet	500.0		44	30-110	5	30	

Reference

Lead	3470	169	mg/kg wet	4490		77	81-120			R-

Batch DC51121 - 7471A

Blank

Mercury	ND	0.030	mg/kg wet							

LCS

Mercury	19.5	3.09	mg/kg wet	24.00		81	56-110			

LCS Dup

Mercury	17.8	2.83	mg/kg wet	24.00		74	56-110	9	30	

Volatile Organics Low Level

Batch DC51032 - 5035

Blank

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Volatile Organics Low Level

Batch DC51032 - 5035

1,2-Dichlorobenzene	ND	0.0050	mg/kg wet
1,2-Dichloroethane	ND	0.0050	mg/kg wet
1,2-Dichloropropane	ND	0.0050	mg/kg wet
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet
1,3-Dichloropropane	ND	0.0050	mg/kg wet
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet
1,4-Dioxane	ND	0.100	mg/kg wet
2,2-Dichloropropane	ND	0.0050	mg/kg wet
2-Butanone	ND	0.0500	mg/kg wet
2-Chlorotoluene	ND	0.0050	mg/kg wet
2-Hexanone	ND	0.0500	mg/kg wet
4-Chlorotoluene	ND	0.0050	mg/kg wet
4-Isopropyltoluene	ND	0.0050	mg/kg wet
4-Methyl-2-Pentanone	ND	0.0500	mg/kg wet
Acetone	ND	0.0500	mg/kg wet
Benzene	ND	0.0050	mg/kg wet
Bromobenzene	ND	0.0050	mg/kg wet
Bromochloromethane	ND	0.0050	mg/kg wet
Bromodichloromethane	ND	0.0050	mg/kg wet
Bromoform	ND	0.0050	mg/kg wet
Bromomethane	ND	0.0100	mg/kg wet
Carbon Disulfide	ND	0.0050	mg/kg wet
Carbon Tetrachloride	ND	0.0050	mg/kg wet
Chlorobenzene	ND	0.0050	mg/kg wet
Chloroethane	ND	0.0100	mg/kg wet
Chloroform	ND	0.0050	mg/kg wet
Chloromethane	ND	0.0100	mg/kg wet
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet
Dibromochloromethane	ND	0.0050	mg/kg wet
Dibromomethane	ND	0.0050	mg/kg wet
Dichlorodifluoromethane	ND	0.0100	mg/kg wet
Diethyl Ether	ND	0.0050	mg/kg wet
Di-isopropyl ether	ND	0.0050	mg/kg wet
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet
Ethylbenzene	ND	0.0050	mg/kg wet
Hexachlorobutadiene	ND	0.0050	mg/kg wet
Isopropylbenzene	ND	0.0050	mg/kg wet
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet
Methylene Chloride	ND	0.0250	mg/kg wet
Naphthalene	ND	0.0050	mg/kg wet
n-Butylbenzene	ND	0.0050	mg/kg wet
n-Propylbenzene	ND	0.0050	mg/kg wet
sec-Butylbenzene	ND	0.0050	mg/kg wet

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Volatile Organics Low Level

Batch DC51032 - 5035

Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0200	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0470</i>		mg/kg wet	<i>0.05000</i>		<i>94</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0492</i>		mg/kg wet	<i>0.05000</i>		<i>98</i>	<i>70-130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0472</i>		mg/kg wet	<i>0.05000</i>		<i>94</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0497</i>		mg/kg wet	<i>0.05000</i>		<i>99</i>	<i>70-130</i>			

LCS

1,1,1,2-Tetrachloroethane	0.0524	0.0050	mg/kg wet	0.05000		105	70-130			
1,1,1-Trichloroethane	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			
1,1,2,2-Tetrachloroethane	0.0430	0.0050	mg/kg wet	0.05000		86	40-160			
1,1,2-Trichloroethane	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
1,1-Dichloroethane	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
1,1-Dichloroethene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			
1,1-Dichloropropene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130			
1,2,3-Trichlorobenzene	0.0548	0.0050	mg/kg wet	0.05000		110	70-130			
1,2,3-Trichloropropane	0.0446	0.0050	mg/kg wet	0.05000		89	70-130			
1,2,4-Trichlorobenzene	0.0546	0.0050	mg/kg wet	0.05000		109	70-130			
1,2,4-Trimethylbenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
1,2-Dibromo-3-Chloropropane	0.0476	0.0050	mg/kg wet	0.05000		95	70-130			
1,2-Dibromoethane	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
1,2-Dichlorobenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
1,2-Dichloroethane	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
1,2-Dichloropropane	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
1,3,5-Trimethylbenzene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130			
1,3-Dichlorobenzene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130			
1,3-Dichloropropane	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
1,4-Dichlorobenzene	0.0480	0.0050	mg/kg wet	0.05000		96	70-130			
1,4-Dioxane	1.01	0.100	mg/kg wet	1.000		101	70-130			
2,2-Dichloropropane	0.0506	0.0050	mg/kg wet	0.05000		101	70-130			
2-Butanone	0.241	0.0500	mg/kg wet	0.2500		96	40-160			
2-Chlorotoluene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			
2-Hexanone	0.221	0.0500	mg/kg wet	0.2500		88	40-160			
4-Chlorotoluene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			
4-Isopropyltoluene	0.0463	0.0050	mg/kg wet	0.05000		93	70-130			

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Volatile Organics Low Level

Batch DC51032 - 5035

4-Methyl-2-Pentanone	0.210	0.0500	mg/kg wet	0.2500		84	40-160			
Acetone	0.220	0.0500	mg/kg wet	0.2500		88	40-160			
Benzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
Bromobenzene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130			
Bromochloromethane	0.0522	0.0050	mg/kg wet	0.05000		104	70-130			
Bromodichloromethane	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
Bromoform	0.0538	0.0050	mg/kg wet	0.05000		108	40-160			
Bromomethane	0.0471	0.0100	mg/kg wet	0.05000		94	40-160			
Carbon Disulfide	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
Carbon Tetrachloride	0.0490	0.0050	mg/kg wet	0.05000		98	70-130			
Chlorobenzene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130			
Chloroethane	0.0445	0.0100	mg/kg wet	0.05000		89	40-160			
Chloroform	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
Chloromethane	0.0400	0.0100	mg/kg wet	0.05000		80	40-160			
cis-1,2-Dichloroethene	0.0499	0.0050	mg/kg wet	0.05000		100	70-130			
cis-1,3-Dichloropropene	0.0529	0.0050	mg/kg wet	0.05000		106	40-160			
Dibromochloromethane	0.0534	0.0050	mg/kg wet	0.05000		107	40-160			
Dibromomethane	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
Dichlorodifluoromethane	0.0314	0.0100	mg/kg wet	0.05000		63	40-160			
Diethyl Ether	0.0509	0.0050	mg/kg wet	0.05000		102	70-130			
Di-isopropyl ether	0.0522	0.0050	mg/kg wet	0.05000		104	70-130			
Ethyl tertiary-butyl ether	0.0546	0.0050	mg/kg wet	0.05000		109	70-130			
Ethylbenzene	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
Hexachlorobutadiene	0.0504	0.0050	mg/kg wet	0.05000		101	40-160			
Isopropylbenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130			
Methyl tert-Butyl Ether	0.0531	0.0050	mg/kg wet	0.05000		106	70-130			
Methylene Chloride	0.0477	0.0250	mg/kg wet	0.05000		95	70-130			
Naphthalene	0.0566	0.0050	mg/kg wet	0.05000		113	40-160			
n-Butylbenzene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
n-Propylbenzene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
sec-Butylbenzene	0.0448	0.0050	mg/kg wet	0.05000		90	70-130			
Styrene	0.0508	0.0050	mg/kg wet	0.05000		102	40-160			
tert-Butylbenzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
Tertiary-amyl methyl ether	0.0551	0.0050	mg/kg wet	0.05000		110	70-130			
Tetrachloroethene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
Tetrahydrofuran	0.0424	0.0200	mg/kg wet	0.05000		85	70-130			
Toluene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130			
trans-1,2-Dichloroethene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
trans-1,3-Dichloropropene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130			
Trichloroethene	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
Trichlorofluoromethane	0.0395	0.0050	mg/kg wet	0.05000		79	40-160			
Vinyl Chloride	0.0282	0.0100	mg/kg wet	0.05000		56	70-130			B-
Xylene O	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
Xylene P,M	0.0958	0.0100	mg/kg wet	0.1000		96	70-130			

Surrogate: 1,2-Dichloroethane-d4 0.0451 mg/kg wet 0.05000 90 70-130

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Dependability



Quality



Service

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Volatile Organics Low Level

Batch DC51032 - 5035

Surrogate: 4-Bromofluorobenzene	0.0497		mg/kg wet	0.05000		99	70-130			
Surrogate: Dibromofluoromethane	0.0486		mg/kg wet	0.05000		97	70-130			
Surrogate: Toluene-d8	0.0502		mg/kg wet	0.05000		100	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	0.0531	0.0050	mg/kg wet	0.05000		106	70-130	1	20	
1,1,1-Trichloroethane	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	2	20	
1,1,2,2-Tetrachloroethane	0.0439	0.0050	mg/kg wet	0.05000		88	40-160	2	20	
1,1,2-Trichloroethane	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	2	20	
1,1-Dichloroethane	0.0488	0.0050	mg/kg wet	0.05000		98	70-130	1	20	
1,1-Dichloroethene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	1	20	
1,1-Dichloropropene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	0.8	20	
1,2,3-Trichlorobenzene	0.0550	0.0050	mg/kg wet	0.05000		110	70-130	0.5	20	
1,2,3-Trichloropropane	0.0456	0.0050	mg/kg wet	0.05000		91	70-130	2	20	
1,2,4-Trichlorobenzene	0.0545	0.0050	mg/kg wet	0.05000		109	70-130	0.1	20	
1,2,4-Trimethylbenzene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130	0.6	20	
1,2-Dibromo-3-Chloropropane	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	3	20	
1,2-Dibromoethane	0.0519	0.0050	mg/kg wet	0.05000		104	70-130	0.7	20	
1,2-Dichlorobenzene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	0.6	20	
1,2-Dichloroethane	0.0476	0.0050	mg/kg wet	0.05000		95	70-130	1	20	
1,2-Dichloropropane	0.0494	0.0050	mg/kg wet	0.05000		99	70-130	1	20	
1,3,5-Trimethylbenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	0.8	20	
1,3-Dichlorobenzene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130	0.7	20	
1,3-Dichloropropane	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	2	20	
1,4-Dichlorobenzene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	0.2	20	
1,4-Dioxane	1.14	0.100	mg/kg wet	1.000		114	70-130	12	20	
2,2-Dichloropropane	0.0514	0.0050	mg/kg wet	0.05000		103	70-130	2	20	
2-Butanone	0.246	0.0500	mg/kg wet	0.2500		98	40-160	2	20	
2-Chlorotoluene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	0.3	20	
2-Hexanone	0.227	0.0500	mg/kg wet	0.2500		91	40-160	3	20	
4-Chlorotoluene	0.0480	0.0050	mg/kg wet	0.05000		96	70-130	0.2	20	
4-Isopropyltoluene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130	0.7	20	
4-Methyl-2-Pentanone	0.215	0.0500	mg/kg wet	0.2500		86	40-160	3	20	
Acetone	0.220	0.0500	mg/kg wet	0.2500		88	40-160	0.2	20	
Benzene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	2	20	
Bromobenzene	0.0509	0.0050	mg/kg wet	0.05000		102	70-130	0.7	20	
Bromochloromethane	0.0532	0.0050	mg/kg wet	0.05000		106	70-130	2	20	
Bromodichloromethane	0.0516	0.0050	mg/kg wet	0.05000		103	70-130	3	20	
Bromoform	0.0547	0.0050	mg/kg wet	0.05000		109	40-160	2	20	
Bromomethane	0.0470	0.0100	mg/kg wet	0.05000		94	40-160	0.2	20	
Carbon Disulfide	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	2	20	
Carbon Tetrachloride	0.0500	0.0050	mg/kg wet	0.05000		100	70-130	2	20	
Chlorobenzene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	1	20	
Chloroethane	0.0450	0.0100	mg/kg wet	0.05000		90	40-160	1	20	
Chloroform	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	2	20	
Chloromethane	0.0404	0.0100	mg/kg wet	0.05000		81	40-160	0.9	20	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Volatile Organics Low Level

Batch DC51032 - 5035

cis-1,2-Dichloroethene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	2	20	
cis-1,3-Dichloropropene	0.0535	0.0050	mg/kg wet	0.05000		107	40-160	1	20	
Dibromochloromethane	0.0542	0.0050	mg/kg wet	0.05000		108	40-160	1	20	
Dibromomethane	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	2	20	
Dichlorodifluoromethane	0.0319	0.0100	mg/kg wet	0.05000		64	40-160	2	20	
Diethyl Ether	0.0519	0.0050	mg/kg wet	0.05000		104	70-130	2	20	
Di-isopropyl ether	0.0529	0.0050	mg/kg wet	0.05000		106	70-130	1	20	
Ethyl tertiary-butyl ether	0.0554	0.0050	mg/kg wet	0.05000		111	70-130	1	20	
Ethylbenzene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130	1	20	
Hexachlorobutadiene	0.0512	0.0050	mg/kg wet	0.05000		102	40-160	1	20	
Isopropylbenzene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	0.9	20	
Methyl tert-Butyl Ether	0.0540	0.0050	mg/kg wet	0.05000		108	70-130	2	20	
Methylene Chloride	0.0485	0.0250	mg/kg wet	0.05000		97	70-130	2	20	
Naphthalene	0.0578	0.0050	mg/kg wet	0.05000		116	40-160	2	20	
n-Butylbenzene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	0.2	20	
n-Propylbenzene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130	0.5	20	
sec-Butylbenzene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	0.9	20	
Styrene	0.0514	0.0050	mg/kg wet	0.05000		103	40-160	1	20	
tert-Butylbenzene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	0.7	20	
Tertiary-amyl methyl ether	0.0560	0.0050	mg/kg wet	0.05000		112	70-130	2	20	
Tetrachloroethene	0.0511	0.0050	mg/kg wet	0.05000		102	70-130	0.8	20	
Tetrahydrofuran	0.0445	0.0200	mg/kg wet	0.05000		89	70-130	5	20	
Toluene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130	2	20	
trans-1,2-Dichloroethene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	2	20	
trans-1,3-Dichloropropene	0.0530	0.0050	mg/kg wet	0.05000		106	70-130	1	20	
Trichloroethene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	3	20	
Trichlorofluoromethane	0.0399	0.0050	mg/kg wet	0.05000		80	40-160	1	20	
Vinyl Chloride	0.0295	0.0100	mg/kg wet	0.05000		59	70-130	4	20	B-
Xylene O	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	1	20	
Xylene P,M	0.0967	0.0100	mg/kg wet	0.1000		97	70-130	1	20	
Surrogate: 1,2-Dichloroethane-d4	0.0449		mg/kg wet	0.05000		90	70-130			
Surrogate: 4-Bromofluorobenzene	0.0495		mg/kg wet	0.05000		99	70-130			
Surrogate: Dibromofluoromethane	0.0482		mg/kg wet	0.05000		96	70-130			
Surrogate: Toluene-d8	0.0494		mg/kg wet	0.05000		99	70-130			

Semi-Volatile Organic Compounds

Batch DC50743 - 3546

Blank

1,1-Biphenyl	ND	0.025	mg/kg wet
1,2,4-Trichlorobenzene	ND	0.250	mg/kg wet
1,2-Dichlorobenzene	ND	0.250	mg/kg wet
1,3-Dichlorobenzene	ND	0.250	mg/kg wet
1,4-Dichlorobenzene	ND	0.125	mg/kg wet
2,4,5-Trichlorophenol	ND	0.250	mg/kg wet
2,4,6-Trichlorophenol	ND	0.125	mg/kg wet

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Semi-Volatile Organic Compounds

Batch DC50743 - 3546

2,4-Dichlorophenol	ND	0.125	mg/kg wet
2,4-Dimethylphenol	ND	0.175	mg/kg wet
2,4-Dinitrophenol	ND	0.500	mg/kg wet
2,4-Dinitrotoluene	ND	0.125	mg/kg wet
2,6-Dinitrotoluene	ND	0.250	mg/kg wet
2-Chloronaphthalene	ND	0.250	mg/kg wet
2-Chlorophenol	ND	0.125	mg/kg wet
2-Methylnaphthalene	ND	0.125	mg/kg wet
2-Methylphenol	ND	0.250	mg/kg wet
2-Nitrophenol	ND	0.500	mg/kg wet
3,3'-Dichlorobenzidine	ND	0.250	mg/kg wet
3+4-Methylphenol	ND	0.250	mg/kg wet
4-Bromophenyl-phenylether	ND	0.250	mg/kg wet
4-Chloroaniline	ND	0.250	mg/kg wet
4-Nitrophenol	ND	1.00	mg/kg wet
Acenaphthene	ND	0.250	mg/kg wet
Acenaphthylene	ND	0.250	mg/kg wet
Acetophenone	ND	0.250	mg/kg wet
Aniline	ND	0.250	mg/kg wet
Anthracene	ND	0.250	mg/kg wet
Azobenzene	ND	0.250	mg/kg wet
Benzo(a)anthracene	ND	0.250	mg/kg wet
Benzo(a)pyrene	ND	0.250	mg/kg wet
Benzo(b)fluoranthene	ND	0.250	mg/kg wet
Benzo(g,h,i)perylene	ND	0.250	mg/kg wet
Benzo(k)fluoranthene	ND	0.250	mg/kg wet
bis(2-Chloroethoxy)methane	ND	0.250	mg/kg wet
bis(2-Chloroethyl)ether	ND	0.125	mg/kg wet
bis(2-chloroisopropyl)Ether	ND	0.125	mg/kg wet
bis(2-Ethylhexyl)phthalate	ND	0.250	mg/kg wet
Butylbenzylphthalate	ND	0.250	mg/kg wet
Chrysene	ND	0.250	mg/kg wet
Dibenzo(a,h)Anthracene	ND	0.125	mg/kg wet
Dibenzofuran	ND	0.250	mg/kg wet
Diethylphthalate	ND	0.250	mg/kg wet
Dimethylphthalate	ND	0.250	mg/kg wet
Di-n-butylphthalate	ND	0.250	mg/kg wet
Di-n-octylphthalate	ND	0.500	mg/kg wet
Fluoranthene	ND	0.250	mg/kg wet
Fluorene	ND	0.250	mg/kg wet
Hexachlorobenzene	ND	0.125	mg/kg wet
Hexachlorobutadiene	ND	0.250	mg/kg wet
Hexachloroethane	ND	0.125	mg/kg wet
Indeno(1,2,3-cd)Pyrene	ND	0.250	mg/kg wet
Isophorone	ND	0.250	mg/kg wet

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Semi-Volatile Organic Compounds

Batch DC50743 - 3546

Naphthalene	ND	0.250	mg/kg wet							
Nitrobenzene	ND	0.250	mg/kg wet							
N-Nitrosodimethylamine	ND	0.250	mg/kg wet							
Pentachlorophenol	ND	0.500	mg/kg wet							
Phenanthrene	ND	0.250	mg/kg wet							
Phenol	ND	0.250	mg/kg wet							
Pyrene	ND	0.250	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	2.07		mg/kg wet	2.500		83	30-130			
Surrogate: 2,4,6-Tribromophenol	3.11		mg/kg wet	3.750		83	30-130			
Surrogate: 2-Chlorophenol-d4	2.97		mg/kg wet	3.750		79	30-130			
Surrogate: 2-Fluorobiphenyl	1.91		mg/kg wet	2.500		76	30-130			
Surrogate: 2-Fluorophenol	2.99		mg/kg wet	3.750		80	30-130			
Surrogate: Nitrobenzene-d5	1.89		mg/kg wet	2.500		76	30-130			
Surrogate: Phenol-d6	3.09		mg/kg wet	3.750		82	30-130			
Surrogate: p-Terphenyl-d14	2.06		mg/kg wet	2.500		82	30-130			

LCS

1,1-Biphenyl	2.18	0.025	mg/kg wet	2.500		87	40-140			
1,2,4-Trichlorobenzene	2.29	0.250	mg/kg wet	2.500		92	40-140			
1,2-Dichlorobenzene	2.12	0.250	mg/kg wet	2.500		85	40-140			
1,3-Dichlorobenzene	2.13	0.250	mg/kg wet	2.500		85	40-140			
1,4-Dichlorobenzene	2.23	0.125	mg/kg wet	2.500		89	40-140			
2,4,5-Trichlorophenol	2.36	0.250	mg/kg wet	2.500		94	30-130			
2,4,6-Trichlorophenol	2.24	0.125	mg/kg wet	2.500		90	30-130			
2,4-Dichlorophenol	2.28	0.125	mg/kg wet	2.500		91	30-130			
2,4-Dimethylphenol	2.14	0.175	mg/kg wet	2.500		86	30-130			
2,4-Dinitrophenol	1.88	0.500	mg/kg wet	2.500		75	15-140			
2,4-Dinitrotoluene	2.44	0.125	mg/kg wet	2.500		97	40-140			
2,6-Dinitrotoluene	2.31	0.250	mg/kg wet	2.500		92	40-140			
2-Chloronaphthalene	2.22	0.250	mg/kg wet	2.500		89	40-140			
2-Chlorophenol	2.32	0.125	mg/kg wet	2.500		93	30-130			
2-Methylnaphthalene	2.31	0.125	mg/kg wet	2.500		92	40-140			
2-Methylphenol	2.32	0.250	mg/kg wet	2.500		93	15-140			
2-Nitrophenol	2.24	0.500	mg/kg wet	2.500		90	30-130			
3,3'-Dichlorobenzidine	2.07	0.250	mg/kg wet	2.500		83	40-140			
3+4-Methylphenol	2.29	0.250	mg/kg wet	2.500		92	15-140			
4-Bromophenyl-phenylether	2.06	0.250	mg/kg wet	2.500		82	40-140			
4-Chloroaniline	1.61	0.250	mg/kg wet	2.500		64	15-140			
4-Nitrophenol	1.78	1.00	mg/kg wet	2.500		71	15-140			
Acenaphthene	2.19	0.250	mg/kg wet	2.500		88	40-140			
Acenaphthylene	2.33	0.250	mg/kg wet	2.500		93	40-140			
Acetophenone	2.15	0.250	mg/kg wet	2.500		86	40-140			
Aniline	1.45	0.250	mg/kg wet	2.500		58	40-140			
Anthracene	2.36	0.250	mg/kg wet	2.500		95	40-140			
Azobenzene	2.03	0.250	mg/kg wet	2.500		81	40-140			
Benzo(a)anthracene	2.23	0.250	mg/kg wet	2.500		89	40-140			

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Semi-Volatile Organic Compounds										
Batch DC50743 - 3546										
Benzo(a)pyrene	2.46	0.250	mg/kg wet	2.500		98	40-140			
Benzo(b)fluoranthene	2.33	0.250	mg/kg wet	2.500		93	40-140			
Benzo(g,h,i)perylene	2.30	0.250	mg/kg wet	2.500		92	40-140			
Benzo(k)fluoranthene	2.41	0.250	mg/kg wet	2.500		97	40-140			
bis(2-Chloroethoxy)methane	2.15	0.250	mg/kg wet	2.500		86	40-140			
bis(2-Chloroethyl)ether	2.06	0.125	mg/kg wet	2.500		82	40-140			
bis(2-chloroisopropyl)Ether	2.19	0.125	mg/kg wet	2.500		88	40-140			
bis(2-Ethylhexyl)phthalate	2.34	0.250	mg/kg wet	2.500		94	40-140			
Butylbenzylphthalate	2.29	0.250	mg/kg wet	2.500		91	40-140			
Chrysene	2.30	0.250	mg/kg wet	2.500		92	40-140			
Dibenzo(a,h)Anthracene	2.41	0.125	mg/kg wet	2.500		96	40-140			
Dibenzofuran	2.33	0.250	mg/kg wet	2.500		93	40-140			
Diethylphthalate	2.34	0.250	mg/kg wet	2.500		94	40-140			
Dimethylphthalate	2.22	0.250	mg/kg wet	2.500		89	15-140			
Di-n-butylphthalate	2.37	0.250	mg/kg wet	2.500		95	40-140			
Di-n-octylphthalate	2.32	0.500	mg/kg wet	2.500		93	40-140			
Fluoranthene	2.54	0.250	mg/kg wet	2.500		102	40-140			
Fluorene	2.43	0.250	mg/kg wet	2.500		97	40-140			
Hexachlorobenzene	2.19	0.125	mg/kg wet	2.500		88	40-140			
Hexachlorobutadiene	2.31	0.250	mg/kg wet	2.500		92	40-140			
Hexachloroethane	2.20	0.125	mg/kg wet	2.500		88	40-140			
Indeno(1,2,3-cd)Pyrene	2.32	0.250	mg/kg wet	2.500		93	40-140			
Isophorone	2.22	0.250	mg/kg wet	2.500		89	40-140			
Naphthalene	2.17	0.250	mg/kg wet	2.500		87	40-140			
Nitrobenzene	2.06	0.250	mg/kg wet	2.500		82	40-140			
N-Nitrosodimethylamine	1.80	0.250	mg/kg wet	2.500		72	40-140			
Pentachlorophenol	1.78	0.500	mg/kg wet	2.500		71	15-140			
Phenanthrene	2.30	0.250	mg/kg wet	2.500		92	40-140			
Phenol	2.39	0.250	mg/kg wet	2.500		96	15-140			
Pyrene	2.10	0.250	mg/kg wet	2.500		84	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	2.44		mg/kg wet	2.500		98	30-130			
Surrogate: 2,4,6-Tribromophenol	3.49		mg/kg wet	3.750		93	30-130			
Surrogate: 2-Chlorophenol-d4	3.63		mg/kg wet	3.750		97	30-130			
Surrogate: 2-Fluorobiphenyl	2.26		mg/kg wet	2.500		91	30-130			
Surrogate: 2-Fluorophenol	3.65		mg/kg wet	3.750		97	30-130			
Surrogate: Nitrobenzene-d5	2.16		mg/kg wet	2.500		86	30-130			
Surrogate: Phenol-d6	3.73		mg/kg wet	3.750		99	30-130			
Surrogate: p-Terphenyl-d14	2.25		mg/kg wet	2.500		90	30-130			
LCS Dup										
1,1-Biphenyl	2.43	0.025	mg/kg wet	2.500		97	40-140	10	30	
1,2,4-Trichlorobenzene	2.44	0.250	mg/kg wet	2.500		97	40-140	6	30	
1,2-Dichlorobenzene	2.23	0.250	mg/kg wet	2.500		89	40-140	5	30	
1,3-Dichlorobenzene	2.31	0.250	mg/kg wet	2.500		92	40-140	8	30	
1,4-Dichlorobenzene	2.29	0.125	mg/kg wet	2.500		92	40-140	3	30	
2,4,5-Trichlorophenol	2.67	0.250	mg/kg wet	2.500		107	30-130	12	30	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Semi-Volatile Organic Compounds

Batch DC50743 - 3546

2,4,6-Trichlorophenol	2.51	0.125	mg/kg wet	2.500		100	30-130	11	30	
2,4-Dichlorophenol	2.52	0.125	mg/kg wet	2.500		101	30-130	10	30	
2,4-Dimethylphenol	2.29	0.175	mg/kg wet	2.500		91	30-130	6	30	
2,4-Dinitrophenol	1.93	0.500	mg/kg wet	2.500		77	15-140	3	30	
2,4-Dinitrotoluene	2.65	0.125	mg/kg wet	2.500		106	40-140	9	30	
2,6-Dinitrotoluene	2.54	0.250	mg/kg wet	2.500		101	40-140	10	30	
2-Chloronaphthalene	2.43	0.250	mg/kg wet	2.500		97	40-140	9	30	
2-Chlorophenol	2.41	0.125	mg/kg wet	2.500		96	30-130	4	30	
2-Methylnaphthalene	2.43	0.125	mg/kg wet	2.500		97	40-140	5	30	
2-Methylphenol	2.40	0.250	mg/kg wet	2.500		96	15-140	3	30	
2-Nitrophenol	2.36	0.500	mg/kg wet	2.500		94	30-130	5	30	
3,3'-Dichlorobenzidine	2.18	0.250	mg/kg wet	2.500		87	40-140	5	30	
3+4-Methylphenol	2.34	0.250	mg/kg wet	2.500		94	15-140	2	30	
4-Bromophenyl-phenylether	2.18	0.250	mg/kg wet	2.500		87	40-140	6	30	
4-Chloroaniline	1.78	0.250	mg/kg wet	2.500		71	15-140	10	30	
4-Nitrophenol	1.89	1.00	mg/kg wet	2.500		76	15-140	6	30	
Acenaphthene	2.33	0.250	mg/kg wet	2.500		93	40-140	6	30	
Acenaphthylene	2.58	0.250	mg/kg wet	2.500		103	40-140	10	30	
Acetophenone	2.22	0.250	mg/kg wet	2.500		89	40-140	3	30	
Aniline	1.54	0.250	mg/kg wet	2.500		62	40-140	7	30	
Anthracene	2.51	0.250	mg/kg wet	2.500		100	40-140	6	30	
Azobenzene	2.01	0.250	mg/kg wet	2.500		80	40-140	1	30	
Benzo(a)anthracene	2.39	0.250	mg/kg wet	2.500		96	40-140	7	30	
Benzo(a)pyrene	2.61	0.250	mg/kg wet	2.500		104	40-140	6	30	
Benzo(b)fluoranthene	2.48	0.250	mg/kg wet	2.500		99	40-140	6	30	
Benzo(g,h,i)perylene	2.43	0.250	mg/kg wet	2.500		97	40-140	6	30	
Benzo(k)fluoranthene	2.58	0.250	mg/kg wet	2.500		103	40-140	7	30	
bis(2-Chloroethoxy)methane	2.23	0.250	mg/kg wet	2.500		89	40-140	4	30	
bis(2-Chloroethyl)ether	2.11	0.125	mg/kg wet	2.500		84	40-140	2	30	
bis(2-chloroisopropyl)Ether	2.29	0.125	mg/kg wet	2.500		91	40-140	4	30	
bis(2-Ethylhexyl)phthalate	2.53	0.250	mg/kg wet	2.500		101	40-140	8	30	
Butylbenzylphthalate	2.47	0.250	mg/kg wet	2.500		99	40-140	8	30	
Chrysene	2.48	0.250	mg/kg wet	2.500		99	40-140	7	30	
Dibenzo(a,h)Anthracene	2.57	0.125	mg/kg wet	2.500		103	40-140	6	30	
Dibenzofuran	2.56	0.250	mg/kg wet	2.500		103	40-140	10	30	
Diethylphthalate	2.47	0.250	mg/kg wet	2.500		99	40-140	5	30	
Dimethylphthalate	2.45	0.250	mg/kg wet	2.500		98	15-140	10	30	
Di-n-butylphthalate	2.50	0.250	mg/kg wet	2.500		100	40-140	5	30	
Di-n-octylphthalate	2.46	0.500	mg/kg wet	2.500		99	40-140	6	30	
Fluoranthene	2.68	0.250	mg/kg wet	2.500		107	40-140	6	30	
Fluorene	2.69	0.250	mg/kg wet	2.500		108	40-140	10	30	
Hexachlorobenzene	2.34	0.125	mg/kg wet	2.500		94	40-140	7	30	
Hexachlorobutadiene	2.41	0.250	mg/kg wet	2.500		96	40-140	4	30	
Hexachloroethane	2.26	0.125	mg/kg wet	2.500		91	40-140	3	30	
Indeno(1,2,3-cd)Pyrene	2.47	0.250	mg/kg wet	2.500		99	40-140	6	30	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

Semi-Volatile Organic Compounds

Batch DC50743 - 3546

Isophorone	2.32	0.250	mg/kg wet	2.500		93	40-140	5	30	
Naphthalene	2.31	0.250	mg/kg wet	2.500		92	40-140	6	30	
Nitrobenzene	2.16	0.250	mg/kg wet	2.500		87	40-140	5	30	
N-Nitrosodimethylamine	1.73	0.250	mg/kg wet	2.500		69	40-140	4	30	
Pentachlorophenol	1.89	0.500	mg/kg wet	2.500		76	15-140	6	30	
Phenanthrene	2.42	0.250	mg/kg wet	2.500		97	40-140	5	30	
Phenol	2.45	0.250	mg/kg wet	2.500		98	15-140	3	30	
Pyrene	2.36	0.250	mg/kg wet	2.500		94	40-140	12	30	
Surrogate: 1,2-Dichlorobenzene-d4	2.39		mg/kg wet	2.500		96	30-130			
Surrogate: 2,4,6-Tribromophenol	3.53		mg/kg wet	3.750		94	30-130			
Surrogate: 2-Chlorophenol-d4	3.67		mg/kg wet	3.750		98	30-130			
Surrogate: 2-Fluorobiphenyl	2.41		mg/kg wet	2.500		97	30-130			
Surrogate: 2-Fluorophenol	3.63		mg/kg wet	3.750		97	30-130			
Surrogate: Nitrobenzene-d5	2.16		mg/kg wet	2.500		86	30-130			
Surrogate: Phenol-d6	3.67		mg/kg wet	3.750		98	30-130			
Surrogate: p-Terphenyl-d14	2.36		mg/kg wet	2.500		94	30-130			

MADEP-EPH Extractable Petroleum Hydrocarbons

Batch DC51203 - 3546

Blank										
C19-C36 Aliphatics1	ND	10.0	mg/kg wet							
C9-C18 Aliphatics1	ND	10.0	mg/kg wet							
Surrogate: 1-Chlorooctadecane	1.30		mg/kg wet	2.000		65	40-140			
Blank										
C11-C22 Unadjusted Aromatics1	ND	10.0	mg/kg wet							
Surrogate: 2-Bromonaphthalene	2.04		mg/kg wet	2.000		102	40-140			
Surrogate: 2-Fluorobiphenyl	1.95		mg/kg wet	2.000		97	40-140			
Surrogate: O-Terphenyl	1.57		mg/kg wet	2.000		79	40-140			
Blank										
2-Methylnaphthalene	ND	0.008	mg/kg wet							
Acenaphthene	ND	0.008	mg/kg wet							
Acenaphthylene	ND	0.008	mg/kg wet							
Anthracene	ND	0.008	mg/kg wet							
Benzo(a)anthracene	ND	0.008	mg/kg wet							
Benzo(a)pyrene	ND	0.008	mg/kg wet							
Benzo(b)fluoranthene	ND	0.008	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.008	mg/kg wet							
Benzo(k)fluoranthene	ND	0.008	mg/kg wet							
Chrysene	ND	0.008	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.008	mg/kg wet							
Fluoranthene	ND	0.008	mg/kg wet							
Fluorene	ND	0.008	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.008	mg/kg wet							
Naphthalene	ND	0.008	mg/kg wet							
Phenanthrene	ND	0.008	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
MADEP-EPH Extractable Petroleum Hydrocarbons										
Batch DC51203 - 3546										
Pyrene	ND	0.008	mg/kg wet							
LCS										
C19-C36 Aliphatics1	11.8	10.0	mg/kg wet	16.00		74	40-140			
C9-C18 Aliphatics1	7.6	10.0	mg/kg wet	12.00		64	40-140			
Surrogate: 1-Chlorooctadecane	1.38		mg/kg wet	2.000		69	40-140			
LCS										
C11-C22 Unadjusted Aromatics1	24.0	10.0	mg/kg wet	34.00		71	40-140			
Surrogate: 2-Bromonaphthalene	1.99		mg/kg wet	2.000		100	40-140			
Surrogate: 2-Fluorobiphenyl	1.94		mg/kg wet	2.000		97	40-140			
Surrogate: O-Terphenyl	1.51		mg/kg wet	2.000		76	40-140			
LCS										
2-Methylnaphthalene Breakthrough	0.0		%				0-5			
Naphthalene Breakthrough	0.0		%				0-5			
LCS										
2-Methylnaphthalene	1.65	0.040	mg/kg wet	2.000		82	40-140			
Acenaphthene	1.45	0.040	mg/kg wet	2.000		72	40-140			
Acenaphthylene	1.54	0.040	mg/kg wet	2.000		77	40-140			
Anthracene	1.62	0.040	mg/kg wet	2.000		81	40-140			
Benzo(a)anthracene	1.69	0.040	mg/kg wet	2.000		84	40-140			
Benzo(a)pyrene	1.55	0.040	mg/kg wet	2.000		78	40-140			
Benzo(b)fluoranthene	1.63	0.040	mg/kg wet	2.000		82	40-140			
Benzo(g,h,i)perylene	1.41	0.040	mg/kg wet	2.000		71	40-140			
Benzo(k)fluoranthene	1.57	0.040	mg/kg wet	2.000		79	40-140			
Chrysene	1.60	0.040	mg/kg wet	2.000		80	40-140			
Dibenzo(a,h)Anthracene	1.43	0.040	mg/kg wet	2.000		72	40-140			
Fluoranthene	1.74	0.040	mg/kg wet	2.000		87	40-140			
Fluorene	1.62	0.040	mg/kg wet	2.000		81	40-140			
Indeno(1,2,3-cd)Pyrene	1.40	0.040	mg/kg wet	2.000		70	40-140			
Naphthalene	1.24	0.040	mg/kg wet	2.000		62	40-140			
Phenanthrene	1.53	0.040	mg/kg wet	2.000		76	40-140			
Pyrene	1.67	0.040	mg/kg wet	2.000		84	40-140			
LCS Dup										
C19-C36 Aliphatics1	9.2	10.0	mg/kg wet	16.00		57	40-140	25	25	
C9-C18 Aliphatics1	6.0	10.0	mg/kg wet	12.00		50	40-140	24	25	
Surrogate: 1-Chlorooctadecane	1.07		mg/kg wet	2.000		54	40-140			
LCS Dup										
C11-C22 Unadjusted Aromatics1	21.1	10.0	mg/kg wet	34.00		62	40-140	13	25	
Surrogate: 2-Bromonaphthalene	2.00		mg/kg wet	2.000		100	40-140			
Surrogate: 2-Fluorobiphenyl	1.93		mg/kg wet	2.000		96	40-140			
Surrogate: O-Terphenyl	1.34		mg/kg wet	2.000		67	40-140			
LCS Dup										
2-Methylnaphthalene Breakthrough	0.0		%				0-5		200	
Naphthalene Breakthrough	0.0		%				0-5		200	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

MADEP-EPH Extractable Petroleum Hydrocarbons

Batch DC51203 - 3546

LCS Dup

2-Methylnaphthalene	1.23	0.040	mg/kg wet	2.000		62	40-140	29	30	
Acenaphthene	1.19	0.040	mg/kg wet	2.000		59	40-140	20	30	
Acenaphthylene	1.23	0.040	mg/kg wet	2.000		62	40-140	22	30	
Anthracene	1.32	0.040	mg/kg wet	2.000		66	40-140	20	30	
Benzo(a)anthracene	1.36	0.040	mg/kg wet	2.000		68	40-140	21	30	
Benzo(a)pyrene	1.28	0.040	mg/kg wet	2.000		64	40-140	20	30	
Benzo(b)fluoranthene	1.34	0.040	mg/kg wet	2.000		67	40-140	19	30	
Benzo(g,h,i)perylene	1.26	0.040	mg/kg wet	2.000		63	40-140	12	30	
Benzo(k)fluoranthene	1.29	0.040	mg/kg wet	2.000		65	40-140	20	30	
Chrysene	1.31	0.040	mg/kg wet	2.000		65	40-140	20	30	
Dibenzo(a,h)Anthracene	1.29	0.040	mg/kg wet	2.000		64	40-140	11	30	
Fluoranthene	1.42	0.040	mg/kg wet	2.000		71	40-140	20	30	
Fluorene	1.32	0.040	mg/kg wet	2.000		66	40-140	21	30	
Indeno(1,2,3-cd)Pyrene	1.25	0.040	mg/kg wet	2.000		62	40-140	11	30	
Naphthalene	1.01	0.040	mg/kg wet	2.000		51	40-140	20	30	
Phenanthrene	1.25	0.040	mg/kg wet	2.000		63	40-140	20	30	
Pyrene	1.34	0.040	mg/kg wet	2.000		67	40-140	22	30	

8081B Organochlorine Pesticides

Batch DC51003 - 3546

Blank

4,4'-DDD	ND	0.0025	mg/kg wet							
4,4'-DDD [2C]	ND	0.0025	mg/kg wet							
4,4'-DDE	ND	0.0025	mg/kg wet							
4,4'-DDE [2C]	ND	0.0025	mg/kg wet							
4,4'-DDT	ND	0.0025	mg/kg wet							
4,4'-DDT [2C]	ND	0.0025	mg/kg wet							
Aldrin	ND	0.0025	mg/kg wet							
Aldrin [2C]	ND	0.0025	mg/kg wet							
alpha-BHC	ND	0.0025	mg/kg wet							
alpha-BHC [2C]	ND	0.0025	mg/kg wet							
alpha-Chlordane	ND	0.0025	mg/kg wet							
alpha-Chlordane [2C]	ND	0.0025	mg/kg wet							
beta-BHC	ND	0.0025	mg/kg wet							
beta-BHC [2C]	ND	0.0025	mg/kg wet							
Chlordane (Total)	ND	0.0200	mg/kg wet							
Chlordane (Total) [2C]	ND	0.0200	mg/kg wet							
delta-BHC	ND	0.0025	mg/kg wet							
delta-BHC [2C]	ND	0.0025	mg/kg wet							
Dieldrin	ND	0.0025	mg/kg wet							
Dieldrin [2C]	ND	0.0025	mg/kg wet							
Endosulfan I	ND	0.0025	mg/kg wet							
Endosulfan I [2C]	ND	0.0025	mg/kg wet							
Endosulfan II	ND	0.0025	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

8081B Organochlorine Pesticides

Batch DC51003 - 3546

Endosulfan II [2C]	ND	0.0025	mg/kg wet							
Endosulfan Sulfate	ND	0.0025	mg/kg wet							
Endosulfan Sulfate [2C]	ND	0.0025	mg/kg wet							
Endrin	ND	0.0025	mg/kg wet							
Endrin [2C]	ND	0.0025	mg/kg wet							
Endrin Ketone	ND	0.0025	mg/kg wet							
Endrin Ketone [2C]	ND	0.0025	mg/kg wet							
gamma-BHC (Lindane)	ND	0.0015	mg/kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0015	mg/kg wet							
gamma-Chlordane	ND	0.0025	mg/kg wet							
gamma-Chlordane [2C]	ND	0.0025	mg/kg wet							
Heptachlor	ND	0.0025	mg/kg wet							
Heptachlor [2C]	ND	0.0025	mg/kg wet							
Heptachlor Epoxide	ND	0.0025	mg/kg wet							
Heptachlor Epoxide [2C]	ND	0.0025	mg/kg wet							
Hexachlorobenzene	ND	0.0025	mg/kg wet							
Hexachlorobenzene [2C]	ND	0.0025	mg/kg wet							
Methoxychlor	ND	0.0025	mg/kg wet							
Methoxychlor [2C]	ND	0.0025	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.00921		mg/kg wet	0.01250		74	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.00967		mg/kg wet	0.01250		77	30-150			
Surrogate: Tetrachloro-m-xylene	0.00780		mg/kg wet	0.01250		62	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.00846		mg/kg wet	0.01250		68	30-150			

LCS

4,4'-DDD	0.0136	0.0025	mg/kg wet	0.01250		109	40-140			
4,4'-DDD [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			
4,4'-DDE	0.0116	0.0025	mg/kg wet	0.01250		93	40-140			
4,4'-DDE [2C]	0.0117	0.0025	mg/kg wet	0.01250		94	40-140			
4,4'-DDT	0.0130	0.0025	mg/kg wet	0.01250		104	40-140			
4,4'-DDT [2C]	0.0132	0.0025	mg/kg wet	0.01250		106	40-140			
Aldrin	0.0098	0.0025	mg/kg wet	0.01250		78	40-140			
Aldrin [2C]	0.0102	0.0025	mg/kg wet	0.01250		81	40-140			
alpha-BHC	0.0095	0.0025	mg/kg wet	0.01250		76	40-140			
alpha-BHC [2C]	0.0101	0.0025	mg/kg wet	0.01250		81	40-140			
alpha-Chlordane	0.0108	0.0025	mg/kg wet	0.01250		86	40-140			
alpha-Chlordane [2C]	0.0114	0.0025	mg/kg wet	0.01250		91	40-140			
beta-BHC	0.0105	0.0025	mg/kg wet	0.01250		84	40-140			
beta-BHC [2C]	0.0109	0.0025	mg/kg wet	0.01250		87	40-140			
delta-BHC	0.0103	0.0025	mg/kg wet	0.01250		82	40-140			
delta-BHC [2C]	0.0103	0.0025	mg/kg wet	0.01250		82	40-140			
Dieldrin	0.0121	0.0025	mg/kg wet	0.01250		97	40-140			
Dieldrin [2C]	0.0123	0.0025	mg/kg wet	0.01250		99	40-140			
Endosulfan I	0.0104	0.0025	mg/kg wet	0.01250		83	40-140			
Endosulfan I [2C]	0.0108	0.0025	mg/kg wet	0.01250		86	40-140			
Endosulfan II	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

8081B Organochlorine Pesticides

Batch DC51003 - 3546

Endosulfan II [2C]	0.0122	0.0025	mg/kg wet	0.01250		98	40-140			
Endosulfan Sulfate	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			
Endosulfan Sulfate [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
Endrin	0.0121	0.0025	mg/kg wet	0.01250		97	40-140			
Endrin [2C]	0.0119	0.0025	mg/kg wet	0.01250		95	40-140			
Endrin Ketone	0.0132	0.0025	mg/kg wet	0.01250		105	40-140			
Endrin Ketone [2C]	0.0131	0.0025	mg/kg wet	0.01250		105	40-140			
gamma-BHC (Lindane)	0.0098	0.0015	mg/kg wet	0.01250		78	40-140			
gamma-BHC (Lindane) [2C]	0.0100	0.0015	mg/kg wet	0.01250		80	40-140			
gamma-Chlordane	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
gamma-Chlordane [2C]	0.0131	0.0025	mg/kg wet	0.01250		105	40-140			
Heptachlor	0.0099	0.0025	mg/kg wet	0.01250		79	40-140			
Heptachlor [2C]	0.0110	0.0025	mg/kg wet	0.01250		88	40-140			
Heptachlor Epoxide	0.0106	0.0025	mg/kg wet	0.01250		85	40-140			
Heptachlor Epoxide [2C]	0.0112	0.0025	mg/kg wet	0.01250		90	40-140			
Hexachlorobenzene	0.0079	0.0025	mg/kg wet	0.01250		63	40-140			
Hexachlorobenzene [2C]	0.0087	0.0025	mg/kg wet	0.01250		70	40-140			
Methoxychlor	0.0135	0.0025	mg/kg wet	0.01250		108	40-140			
Methoxychlor [2C]	0.0143	0.0025	mg/kg wet	0.01250		114	40-140			
Surrogate: Decachlorobiphenyl	0.0106		mg/kg wet	0.01250		85	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0114		mg/kg wet	0.01250		92	30-150			
Surrogate: Tetrachloro-m-xylene	0.00779		mg/kg wet	0.01250		62	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.00845		mg/kg wet	0.01250		68	30-150			

LCS Dup

4,4'-DDD	0.0110	0.0025	mg/kg wet	0.01250		88	40-140	21	30	
4,4'-DDD [2C]	0.0107	0.0025	mg/kg wet	0.01250		86	40-140	19	30	
4,4'-DDE	0.0097	0.0025	mg/kg wet	0.01250		78	40-140	18	30	
4,4'-DDE [2C]	0.0097	0.0025	mg/kg wet	0.01250		78	40-140	19	30	
4,4'-DDT	0.0104	0.0025	mg/kg wet	0.01250		83	40-140	22	30	
4,4'-DDT [2C]	0.0106	0.0025	mg/kg wet	0.01250		85	40-140	22	30	
Aldrin	0.0091	0.0025	mg/kg wet	0.01250		73	40-140	8	30	
Aldrin [2C]	0.0092	0.0025	mg/kg wet	0.01250		74	40-140	10	30	
alpha-BHC	0.0088	0.0025	mg/kg wet	0.01250		70	40-140	7	30	
alpha-BHC [2C]	0.0093	0.0025	mg/kg wet	0.01250		74	40-140	8	30	
alpha-Chlordane	0.0091	0.0025	mg/kg wet	0.01250		73	40-140	16	30	
alpha-Chlordane [2C]	0.0096	0.0025	mg/kg wet	0.01250		77	40-140	17	30	
beta-BHC	0.0091	0.0025	mg/kg wet	0.01250		73	40-140	14	30	
beta-BHC [2C]	0.0093	0.0025	mg/kg wet	0.01250		74	40-140	16	30	
delta-BHC	0.0083	0.0025	mg/kg wet	0.01250		66	40-140	21	30	
delta-BHC [2C]	0.0083	0.0025	mg/kg wet	0.01250		66	40-140	21	30	
Dieldrin	0.0102	0.0025	mg/kg wet	0.01250		82	40-140	17	30	
Dieldrin [2C]	0.0103	0.0025	mg/kg wet	0.01250		82	40-140	18	30	
Endosulfan I	0.0091	0.0025	mg/kg wet	0.01250		73	40-140	13	30	
Endosulfan I [2C]	0.0093	0.0025	mg/kg wet	0.01250		75	40-140	14	30	
Endosulfan II	0.0101	0.0025	mg/kg wet	0.01250		81	40-140	21	30	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

8081B Organochlorine Pesticides

Batch DC51003 - 3546

Endosulfan II [2C]	0.0099	0.0025	mg/kg wet	0.01250		79	40-140	22	30	
Endosulfan Sulfate	0.0104	0.0025	mg/kg wet	0.01250		83	40-140	21	30	
Endosulfan Sulfate [2C]	0.0100	0.0025	mg/kg wet	0.01250		80	40-140	23	30	
Endrin	0.0103	0.0025	mg/kg wet	0.01250		82	40-140	17	30	
Endrin [2C]	0.0098	0.0025	mg/kg wet	0.01250		78	40-140	20	30	
Endrin Ketone	0.0104	0.0025	mg/kg wet	0.01250		83	40-140	23	30	
Endrin Ketone [2C]	0.0104	0.0025	mg/kg wet	0.01250		83	40-140	23	30	
gamma-BHC (Lindane)	0.0090	0.0015	mg/kg wet	0.01250		72	40-140	8	30	
gamma-BHC (Lindane) [2C]	0.0091	0.0015	mg/kg wet	0.01250		73	40-140	10	30	
gamma-Chlordane	0.0106	0.0025	mg/kg wet	0.01250		85	40-140	17	30	
gamma-Chlordane [2C]	0.0109	0.0025	mg/kg wet	0.01250		87	40-140	18	30	
Heptachlor	0.0092	0.0025	mg/kg wet	0.01250		74	40-140	7	30	
Heptachlor [2C]	0.0100	0.0025	mg/kg wet	0.01250		80	40-140	9	30	
Heptachlor Epoxide	0.0094	0.0025	mg/kg wet	0.01250		75	40-140	13	30	
Heptachlor Epoxide [2C]	0.0098	0.0025	mg/kg wet	0.01250		78	40-140	14	30	
Hexachlorobenzene	0.0075	0.0025	mg/kg wet	0.01250		60	40-140	6	30	
Hexachlorobenzene [2C]	0.0081	0.0025	mg/kg wet	0.01250		65	40-140	7	30	
Methoxychlor	0.0108	0.0025	mg/kg wet	0.01250		86	40-140	22	30	
Methoxychlor [2C]	0.0112	0.0025	mg/kg wet	0.01250		90	40-140	24	30	
Surrogate: Decachlorobiphenyl	0.00818		mg/kg wet	0.01250		65	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.00881		mg/kg wet	0.01250		70	30-150			
Surrogate: Tetrachloro-m-xylene	0.00706		mg/kg wet	0.01250		56	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.00758		mg/kg wet	0.01250		61	30-150			

8151A Chlorinated Herbicides

Batch DC51147 - 3546

Blank

2,4,5-T	ND	0.010	mg/kg wet							
2,4,5-T [2C]	ND	0.010	mg/kg wet							
2,4,5-TP (Silvex)	ND	0.010	mg/kg wet							
2,4,5-TP (Silvex) [2C]	ND	0.010	mg/kg wet							
2,4-D	ND	0.047	mg/kg wet							
2,4-D [2C]	ND	0.047	mg/kg wet							
2,4-DB	ND	0.048	mg/kg wet							
2,4-DB [2C]	ND	0.048	mg/kg wet							
Dalapon	ND	0.046	mg/kg wet							
Dalapon [2C]	ND	0.046	mg/kg wet							
Dicamba	ND	0.009	mg/kg wet							
Dicamba [2C]	ND	0.009	mg/kg wet							
Dichlorprop	ND	0.047	mg/kg wet							
Dichlorprop [2C]	ND	0.047	mg/kg wet							
MCPA	ND	2.32	mg/kg wet							
MCPA [2C]	ND	2.32	mg/kg wet							
MCPP	ND	2.35	mg/kg wet							
MCPP [2C]	ND	2.35	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8151A Chlorinated Herbicides										
Batch DC51147 - 3546										
Surrogate: DCAA	0.155		mg/kg wet	0.2000		78	30-150			
Surrogate: DCAA [2C]	0.149		mg/kg wet	0.2000		75	30-150			
LCS										
2,4,5-T	0.015	0.010	mg/kg wet	0.01900		78	40-140			
2,4,5-T [2C]	0.014	0.010	mg/kg wet	0.01900		76	40-140			
2,4,5-TP (Silvex)	0.014	0.010	mg/kg wet	0.01900		76	40-140			
2,4,5-TP (Silvex) [2C]	0.015	0.010	mg/kg wet	0.01900		78	40-140			
2,4-D	0.104	0.047	mg/kg wet	0.1880		55	40-140			
2,4-D [2C]	0.130	0.047	mg/kg wet	0.1880		69	40-140			
2,4-DB	0.154	0.048	mg/kg wet	0.1900		81	40-140			
2,4-DB [2C]	0.150	0.048	mg/kg wet	0.1900		79	40-140			
Dalapon	0.321	0.046	mg/kg wet	0.4550		70	40-140			
Dalapon [2C]	0.375	0.046	mg/kg wet	0.4550		82	40-140			
Dicamba	0.013	0.009	mg/kg wet	0.01880		68	40-140			
Dicamba [2C]	0.017	0.009	mg/kg wet	0.01880		88	40-140			
Dichlorprop	0.159	0.047	mg/kg wet	0.1880		85	40-140			
Dichlorprop [2C]	0.158	0.047	mg/kg wet	0.1880		84	40-140			
MCPA	17.1	2.32	mg/kg wet	18.60		92	40-140			
MCPA [2C]	16.7	2.32	mg/kg wet	18.60		90	40-140			
MCP	16.4	2.35	mg/kg wet	18.80		87	40-140			
MCP [2C]	18.9	2.35	mg/kg wet	18.80		101	40-140			
Surrogate: DCAA	0.179		mg/kg wet	0.2000		90	30-150			
Surrogate: DCAA [2C]	0.168		mg/kg wet	0.2000		84	30-150			
LCS Dup										
2,4,5-T	0.015	0.010	mg/kg wet	0.01900		78	40-140	0	30	
2,4,5-T [2C]	0.015	0.010	mg/kg wet	0.01900		78	40-140	3	30	
2,4,5-TP (Silvex)	0.015	0.010	mg/kg wet	0.01900		78	40-140	3	30	
2,4,5-TP (Silvex) [2C]	0.016	0.010	mg/kg wet	0.01900		82	40-140	5	30	
2,4-D	0.105	0.047	mg/kg wet	0.1880		56	40-140	1	30	
2,4-D [2C]	0.130	0.047	mg/kg wet	0.1880		69	40-140	0.6	30	
2,4-DB	0.158	0.048	mg/kg wet	0.1900		83	40-140	2	30	
2,4-DB [2C]	0.151	0.048	mg/kg wet	0.1900		80	40-140	1	30	
Dalapon	0.314	0.046	mg/kg wet	0.4550		69	40-140	2	30	
Dalapon [2C]	0.345	0.046	mg/kg wet	0.4550		76	40-140	8	30	
Dicamba	0.014	0.009	mg/kg wet	0.01880		72	40-140	6	30	
Dicamba [2C]	0.017	0.009	mg/kg wet	0.01880		88	40-140	0	30	
Dichlorprop	0.165	0.047	mg/kg wet	0.1880		88	40-140	3	30	
Dichlorprop [2C]	0.162	0.047	mg/kg wet	0.1880		86	40-140	3	30	
MCPA	17.1	2.32	mg/kg wet	18.60		92	40-140	0.3	30	
MCPA [2C]	17.3	2.32	mg/kg wet	18.60		93	40-140	3	30	
MCP	16.4	2.35	mg/kg wet	18.80		87	40-140	0.4	30	
MCP [2C]	19.5	2.35	mg/kg wet	18.80		104	40-140	3	30	
Surrogate: DCAA	0.179		mg/kg wet	0.2000		89	30-150			
Surrogate: DCAA [2C]	0.172		mg/kg wet	0.2000		86	30-150			

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

8100M Total Petroleum Hydrocarbons

Batch DC50744 - 3546

Blank

Decane (C10)	ND	0.2	mg/kg wet							
Docosane (C22)	ND	0.2	mg/kg wet							
Dodecane (C12)	ND	0.2	mg/kg wet							
Eicosane (C20)	ND	0.2	mg/kg wet							
Hexacosane (C26)	ND	0.2	mg/kg wet							
Hexadecane (C16)	ND	0.2	mg/kg wet							
Hexatriacontane (C36)	ND	0.2	mg/kg wet							
Nonadecane (C19)	ND	0.2	mg/kg wet							
Nonane (C9)	ND	0.2	mg/kg wet							
Octacosane (C28)	ND	0.2	mg/kg wet							
Octadecane (C18)	ND	0.2	mg/kg wet							
Tetracosane (C24)	ND	0.2	mg/kg wet							
Tetradecane (C14)	ND	0.2	mg/kg wet							
Total Petroleum Hydrocarbons (C9-C36)	ND	10.0	mg/kg wet							
Triacontane (C30)	ND	0.2	mg/kg wet							
Surrogate: O-Terphenyl	3.95		mg/kg wet	5.000		79	40-140			

LCS

Decane (C10)	1.7	0.2	mg/kg wet	2.500		66	40-140			
Docosane (C22)	1.9	0.2	mg/kg wet	2.500		75	40-140			
Dodecane (C12)	1.8	0.2	mg/kg wet	2.500		72	40-140			
Eicosane (C20)	1.9	0.2	mg/kg wet	2.500		74	40-140			
Hexacosane (C26)	1.9	0.2	mg/kg wet	2.500		76	40-140			
Hexadecane (C16)	1.8	0.2	mg/kg wet	2.500		72	40-140			
Hexatriacontane (C36)	1.7	0.2	mg/kg wet	2.500		66	40-140			
Nonadecane (C19)	1.8	0.2	mg/kg wet	2.500		74	40-140			
Nonane (C9)	1.6	0.2	mg/kg wet	2.500		63	30-140			
Octacosane (C28)	1.9	0.2	mg/kg wet	2.500		76	40-140			
Octadecane (C18)	1.8	0.2	mg/kg wet	2.500		73	40-140			
Tetracosane (C24)	1.9	0.2	mg/kg wet	2.500		76	40-140			
Tetradecane (C14)	1.8	0.2	mg/kg wet	2.500		72	40-140			
Total Petroleum Hydrocarbons (C9-C36)	25.6	10.0	mg/kg wet	35.00		73	40-140			
Triacontane (C30)	1.8	0.2	mg/kg wet	2.500		74	40-140			
Surrogate: O-Terphenyl	3.61		mg/kg wet	5.000		72	40-140			

LCS Dup

Decane (C10)	1.8	0.2	mg/kg wet	2.500		73	40-140	10	25	
Docosane (C22)	2.1	0.2	mg/kg wet	2.500		83	40-140	10	25	
Dodecane (C12)	1.9	0.2	mg/kg wet	2.500		77	40-140	8	25	
Eicosane (C20)	2.1	0.2	mg/kg wet	2.500		82	40-140	10	25	
Hexacosane (C26)	2.1	0.2	mg/kg wet	2.500		84	40-140	10	25	
Hexadecane (C16)	2.0	0.2	mg/kg wet	2.500		80	40-140	10	25	
Hexatriacontane (C36)	1.8	0.2	mg/kg wet	2.500		72	40-140	8	25	
Nonadecane (C19)	2.0	0.2	mg/kg wet	2.500		82	40-140	10	25	
Nonane (C9)	1.6	0.2	mg/kg wet	2.500		65	30-140	2	25	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

8100M Total Petroleum Hydrocarbons

Batch DC50744 - 3546

Octacosane (C28)	2.1	0.2	mg/kg wet	2.500		84	40-140	10	25	
Octadecane (C18)	2.0	0.2	mg/kg wet	2.500		81	40-140	10	25	
Tetracosane (C24)	2.1	0.2	mg/kg wet	2.500		83	40-140	10	25	
Tetradecane (C14)	2.0	0.2	mg/kg wet	2.500		79	40-140	9	25	
Total Petroleum Hydrocarbons (C9-C36)	27.9	10.0	mg/kg wet	35.00		80	40-140	9	25	
Triacontane (C30)	2.0	0.2	mg/kg wet	2.500		81	40-140	10	25	
Surrogate: O-Terphenyl	4.13		mg/kg wet	5.000		83	40-140			

Classical Chemistry

Batch DC50736 - General Preparation

Blank										
Conductivity	ND	5	umhos/cm							
LCS										
Conductivity	1410		umhos/cm	1410		100	90-110			

Batch DC51035 - General Preparation

Blank										
Reactive Cyanide	ND	2.0	mg/kg							
Reactive Sulfide	ND	2.0	mg/kg							
LCS										
Reactive Cyanide	4.1	2.0	mg/kg	100.3		4	0.68-5.41			
Reactive Sulfide	2.2	2.0	mg/kg	10.00		22	0-44			

Batch DC51036 - General Preparation

Reference										
Flashpoint	80		°F	81.00		99	97.9-102.1			

Batch DC51156 - General Preparation

Blank										
Total Organic Carbon (1)	ND	500	mg/kg							
Total Organic Carbon (2)	ND	500	mg/kg							
LCS										
Total Organic Carbon (1)	9240	500	mg/kg	10010		92	80-120			
Total Organic Carbon (2)	9680	500	mg/kg	10010		97	80-120			
LCS Dup										
Total Organic Carbon (1)	9600	500	mg/kg	10010		96	80-120	4	25	
Total Organic Carbon (2)	9110	500	mg/kg	10010		91	80-120	6	25	

8082 Polychlorinated Biphenyls (PCB) / Congeners

Batch DC51104 - 3540C

Blank										
BZ#101	ND	0.00027	mg/kg wet							
BZ#101 [2C]	ND	0.00027	mg/kg wet							
BZ#105	ND	0.00027	mg/kg wet							
BZ#105 [2C]	ND	0.00027	mg/kg wet							
BZ#118	ND	0.00027	mg/kg wet							

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

8082 Polychlorinated Biphenyls (PCB) / Congeners

Batch DC51104 - 3540C

BZ#118 [2C]	ND	0.00027	mg/kg wet							
BZ#128	ND	0.00027	mg/kg wet							
BZ#128 [2C]	ND	0.00027	mg/kg wet							
BZ#138	ND	0.00027	mg/kg wet							
BZ#138 [2C]	ND	0.00027	mg/kg wet							
BZ#153	ND	0.00027	mg/kg wet							
BZ#153 [2C]	ND	0.00027	mg/kg wet							
BZ#170	ND	0.00027	mg/kg wet							
BZ#170 [2C]	ND	0.00027	mg/kg wet							
BZ#18	ND	0.00027	mg/kg wet							
BZ#18 [2C]	ND	0.00027	mg/kg wet							
BZ#180	ND	0.00027	mg/kg wet							
BZ#180 [2C]	ND	0.00027	mg/kg wet							
BZ#187	ND	0.00027	mg/kg wet							
BZ#187 [2C]	ND	0.00027	mg/kg wet							
BZ#195	ND	0.00027	mg/kg wet							
BZ#195 [2C]	ND	0.00027	mg/kg wet							
BZ#206	ND	0.00027	mg/kg wet							
BZ#206 [2C]	ND	0.00027	mg/kg wet							
BZ#209	ND	0.00027	mg/kg wet							
BZ#209 [2C]	ND	0.00027	mg/kg wet							
BZ#28	ND	0.00027	mg/kg wet							
BZ#28 [2C]	ND	0.00027	mg/kg wet							
BZ#44	ND	0.00027	mg/kg wet							
BZ#44 [2C]	ND	0.00027	mg/kg wet							
BZ#52	ND	0.00027	mg/kg wet							
BZ#52 [2C]	ND	0.00027	mg/kg wet							
BZ#66	ND	0.00027	mg/kg wet							
BZ#66 [2C]	ND	0.00027	mg/kg wet							
BZ#8	ND	0.00027	mg/kg wet							
BZ#8 [2C]	ND	0.00027	mg/kg wet							
Surrogate: Tetrachloro-m-xylene	0.00259		mg/kg wet	0.003333		78	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.00245		mg/kg wet	0.003333		74	30-150			

LCS

BZ#101	0.00255	0.00027	mg/kg wet	0.003333		77	40-140			
BZ#101 [2C]	0.00246	0.00027	mg/kg wet	0.003333		74	40-140			
BZ#105	0.00269	0.00027	mg/kg wet	0.003333		81	40-140			
BZ#105 [2C]	0.00255	0.00027	mg/kg wet	0.003333		76	40-140			
BZ#118	0.00248	0.00027	mg/kg wet	0.003333		74	40-140			
BZ#118 [2C]	0.00242	0.00027	mg/kg wet	0.003333		73	40-140			
BZ#128	0.00225	0.00027	mg/kg wet	0.003333		68	40-140			
BZ#128 [2C]	0.00238	0.00027	mg/kg wet	0.003333		72	40-140			
BZ#138	0.00254	0.00027	mg/kg wet	0.003333		76	40-140			
BZ#138 [2C]	0.00250	0.00027	mg/kg wet	0.003333		75	40-140			
BZ#153	0.00246	0.00027	mg/kg wet	0.003333		74	40-140			

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier

8082 Polychlorinated Biphenyls (PCB) / Congeners

Batch DC51104 - 3540C

BZ#153 [2C]	0.00233	0.00027	mg/kg wet	0.003333		70	40-140			
BZ#170	0.00247	0.00027	mg/kg wet	0.003333		74	40-140			
BZ#170 [2C]	0.00245	0.00027	mg/kg wet	0.003333		74	40-140			
BZ#18	0.00247	0.00027	mg/kg wet	0.003333		74	40-140			
BZ#18 [2C]	0.00227	0.00027	mg/kg wet	0.003333		68	40-140			
BZ#180	0.00258	0.00027	mg/kg wet	0.003333		77	40-140			
BZ#180 [2C]	0.00241	0.00027	mg/kg wet	0.003333		72	40-140			
BZ#187	0.00246	0.00027	mg/kg wet	0.003333		74	40-140			
BZ#187 [2C]	0.00243	0.00027	mg/kg wet	0.003333		73	40-140			
BZ#195	0.00252	0.00027	mg/kg wet	0.003333		76	40-140			
BZ#195 [2C]	0.00241	0.00027	mg/kg wet	0.003333		72	40-140			
BZ#206	0.00244	0.00027	mg/kg wet	0.003333		73	40-140			
BZ#206 [2C]	0.00241	0.00027	mg/kg wet	0.003333		72	40-140			
BZ#209	0.00242	0.00027	mg/kg wet	0.003333		73	40-140			
BZ#209 [2C]	0.00239	0.00027	mg/kg wet	0.003333		72	40-140			
BZ#28	0.00281	0.00027	mg/kg wet	0.003333		84	40-140			
BZ#28 [2C]	0.00223	0.00027	mg/kg wet	0.003333		67	40-140			
BZ#44	0.00267	0.00027	mg/kg wet	0.003333		80	40-140			
BZ#44 [2C]	0.00242	0.00027	mg/kg wet	0.003333		73	40-140			
BZ#52	0.00259	0.00027	mg/kg wet	0.003333		78	40-140			
BZ#52 [2C]	0.00229	0.00027	mg/kg wet	0.003333		69	40-140			
BZ#66	0.00258	0.00027	mg/kg wet	0.003333		78	40-140			
BZ#66 [2C]	0.00233	0.00027	mg/kg wet	0.003333		70	40-140			
BZ#8	0.00262	0.00027	mg/kg wet	0.003333		79	40-140			
BZ#8 [2C]	0.00230	0.00027	mg/kg wet	0.003333		69	40-140			
Surrogate: Tetrachloro-m-xylene	0.00228		mg/kg wet	0.003333		68	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.00217		mg/kg wet	0.003333		65	30-150			

LCS Dup

BZ#101	0.00296	0.00027	mg/kg wet	0.003333		89	40-140	15	30	
BZ#101 [2C]	0.00283	0.00027	mg/kg wet	0.003333		85	40-140	14	30	
BZ#105	0.00303	0.00027	mg/kg wet	0.003333		91	40-140	12	30	
BZ#105 [2C]	0.00287	0.00027	mg/kg wet	0.003333		86	40-140	12	30	
BZ#118	0.00278	0.00027	mg/kg wet	0.003333		84	40-140	12	30	
BZ#118 [2C]	0.00275	0.00027	mg/kg wet	0.003333		83	40-140	13	30	
BZ#128	0.00251	0.00027	mg/kg wet	0.003333		75	40-140	11	30	
BZ#128 [2C]	0.00271	0.00027	mg/kg wet	0.003333		81	40-140	13	30	
BZ#138	0.00292	0.00027	mg/kg wet	0.003333		88	40-140	14	30	
BZ#138 [2C]	0.00287	0.00027	mg/kg wet	0.003333		86	40-140	14	30	
BZ#153	0.00284	0.00027	mg/kg wet	0.003333		85	40-140	14	30	
BZ#153 [2C]	0.00264	0.00027	mg/kg wet	0.003333		79	40-140	13	30	
BZ#170	0.00281	0.00027	mg/kg wet	0.003333		84	40-140	13	30	
BZ#170 [2C]	0.00273	0.00027	mg/kg wet	0.003333		82	40-140	10	30	
BZ#18	0.00275	0.00027	mg/kg wet	0.003333		82	40-140	10	30	
BZ#18 [2C]	0.00267	0.00027	mg/kg wet	0.003333		80	40-140	16	30	
BZ#180	0.00294	0.00027	mg/kg wet	0.003333		88	40-140	13	30	

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB) / Congeners										
Batch DC51104 - 3540C										
BZ#180 [2C]	0.00276	0.00027	mg/kg wet	0.003333		83	40-140	14	30	
BZ#187	0.00286	0.00027	mg/kg wet	0.003333		86	40-140	15	30	
BZ#187 [2C]	0.00281	0.00027	mg/kg wet	0.003333		84	40-140	15	30	
BZ#195	0.00285	0.00027	mg/kg wet	0.003333		85	40-140	12	30	
BZ#195 [2C]	0.00272	0.00027	mg/kg wet	0.003333		82	40-140	12	30	
BZ#206	0.00276	0.00027	mg/kg wet	0.003333		83	40-140	12	30	
BZ#206 [2C]	0.00269	0.00027	mg/kg wet	0.003333		81	40-140	11	30	
BZ#209	0.00277	0.00027	mg/kg wet	0.003333		83	40-140	13	30	
BZ#209 [2C]	0.00268	0.00027	mg/kg wet	0.003333		80	40-140	12	30	
BZ#28	0.00333	0.00027	mg/kg wet	0.003333		100	40-140	17	30	
BZ#28 [2C]	0.00264	0.00027	mg/kg wet	0.003333		79	40-140	17	30	
BZ#44	0.00313	0.00027	mg/kg wet	0.003333		94	40-140	16	30	
BZ#44 [2C]	0.00279	0.00027	mg/kg wet	0.003333		84	40-140	14	30	
BZ#52	0.00282	0.00027	mg/kg wet	0.003333		85	40-140	9	30	
BZ#52 [2C]	0.00263	0.00027	mg/kg wet	0.003333		79	40-140	14	30	
BZ#66	0.00299	0.00027	mg/kg wet	0.003333		90	40-140	14	30	
BZ#66 [2C]	0.00268	0.00027	mg/kg wet	0.003333		80	40-140	14	30	
BZ#8	0.00309	0.00027	mg/kg wet	0.003333		93	40-140	16	30	
BZ#8 [2C]	0.00268	0.00027	mg/kg wet	0.003333		80	40-140	15	30	
Surrogate: Tetrachloro-m-xylene	0.00263		mg/kg wet	0.003333		79	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.00252		mg/kg wet	0.003333		75	30-150			

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

Notes and Definitions

Z-08	See Attached
WL	Results obtained from a deionized water leach of the sample.
U	Analyte included in the analysis, but not detected
R-	Standard Reference Material is biased low (R-).
Q	Calibration required quadratic regression (Q).
DDT	DDT breakdown > 20%
D	Diluted.
CD-	Continuing Calibration %Diff/Drift is below control limit (CD-).
B-	Blank Spike recovery is below lower control limit (B-).
>	Greater than.
ND	Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
DL	Detection Limit
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
[CALC]	Calculated Analyte
SUB	Subcontracted analysis; see attached report
RL	Reporting Limit
EDL	Estimated Detection Limit
MF	Membrane Filtration
MPN	Most Probable Number
TNTC	Too numerous to Count
CFU	Colony Forming Units

CERTIFICATE OF ANALYSIS

Client Name: Horsley & Witten
Client Project ID: Lily Pond - 401WQ

ESS Laboratory Work Order: 25C0242

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179
<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750
http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutOfStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002
<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002
<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424
<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313
<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006
http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

Pennsylvania: 68-01752
<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

 Thielsch DIVISION OF THE RISE GROUP	195 Frances Avenue Cranston RI, 02910 Phone: (401)-467-6454 Fax: (401)-467-2398 cts.thielsch.com <i>Let's Build a Solid Foundation</i>	Client Information:	Project Information:
		ESS Laboratory Cranston, RI (401) 461-7181 Project Contact: Shawn Morrell Collected By: Client	Lily Pond Nantucket, MA Project Number: 25C0242 Summary Page: 1 of 1 Report Date: 03.17.25

LABORATORY TESTING DATA SHEET, Report No.: 7425-C-144

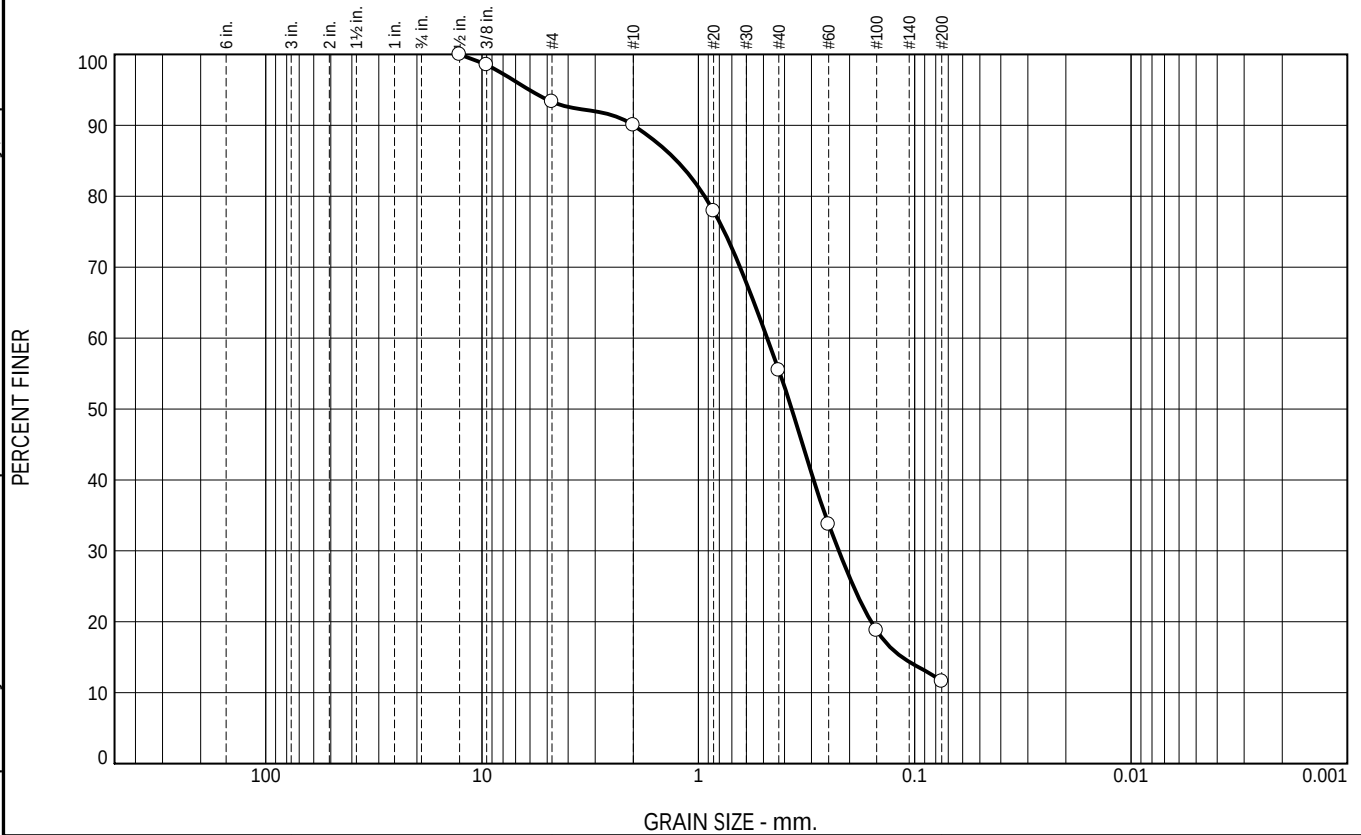
Material Source	Sample ID	Depth (ft)	Laboratory No.	Identification Tests									Proctor / CBR / Permeability Tests									Laboratory Log and Soil Description
				As Rcvd Moisture Content %	LL %	PL %	OD LL	Gravel %	Sand %	Fines %	Org. %	pH	9 _d MAX (pcf) W _{opt} (%)	9 _d MAX (pcf) W _{opt} (%) (Corr.)	Dry unit wt. (pcf)	Test Moisture Content %	Target Test Setup as % of Proctor	CBR @ 0.1"	CBR @ 0.2"	Permeability cm/sec		
				D2216	D4318			D6913			D2974	D4792	D1557									
Composite	2025-SS-11	-	25C0242-01	28.1				6.7	81.7	11.6											Dark Brown Organic poorly-graded sand with silt	

Date Received: 03.11.25
 Reviewed By: 
 Date Reviewed: 03.17.25

This report only relates to items inspect and/or tested. No warranty, expressed or implied, is made.
This report shall not be reproduced, except in full, without prior written approval from the Agency, as defined in ASTM E329.

These results are for the exclusive use of the client for whom they were obtained. This report only relates to items inspected and/or tested. No warranty, expressed or implied, is made.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	6.7	3.3	34.5	43.9	11.6	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1/2"	100.0		
3/8"	98.5		
#4	93.3		
#10	90.0		
#20	77.9		
#40	55.5		
#60	33.7		
#100	18.8		
#200	11.6		

* (no specification provided)

Soil Description
Dark Brown Organic poorly-graded sand with silt

PL= NP Atterberg Limits LL= NV PI= NP

Coefficients
D₉₀= 1.9960 D₈₅= 1.2574 D₆₀= 0.4810
D₅₀= 0.3703 D₃₀= 0.2243 D₁₅= 0.1144
D₁₀= C_u= C_c=

Classification
USCS= SP-SM AASHTO= A-2-4(0)

Remarks
Sample description is for informational purposes, and is meant to indicate particle size not inclusion of mineral material.

Source of Sample: Composite
Sample Number: 25C0242-01

Date: 3/13/25

Thielsch Engineering Inc.

Cranston, RI

Client: ESS Laboratory
Project: Lily Pond
Nantucket, MA

Project No: 25C0242

Fig. 25C0242-01

Tested By: RKO/AR

Checked By: Kris Roland

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Horsley Witten Group - TJM

ESS Project ID: 25C0242

Date Received: 3/7/2025

Project Due Date: 3/14/2025

Days for Project: 5 Day

Shipped/Delivered Via: ESS Courier

1. Air bill manifest present? ☐ No
Air No.: NA

2. Were custody seals present? ☐ No

3. Is radiation count <100 CPM? ☐ Yes

4. Is a Cooler Present? ☐ Yes
Temp: 4.4 Iced with: Ice

5. Was COC signed and dated by client? ☐ Yes

6. Does COC match bottles? ☐ Yes

7. Is COC complete and correct? ☐ Yes

8. Were samples received intact? ☐ Yes

9. Were labs informed about short holds & rushes? ☒ Yes / No / NA

10. Were any analyses received outside of hold time? ☒ Yes / No

11. Any Subcontracting needed? ☒ Yes / No
ESS Sample IDs: 1
Analysis: Particle size
TAT: 5 day

12. Were VOAs received? ☒ Yes / No
a. Air bubbles in aqueous VOAs? ☒ Yes / No
b. Does methanol cover soil completely? ☒ Yes / No / NA

13. Are the samples properly preserved? ☒ Yes / No
a. If metals preserved upon receipt: ☒ Yes / No Field Filtered
b. If dissolved metals are requested, are they: ☒ Yes / No
c. Low Level VOA vials frozen: ☒ Yes / No

Date: 3/7/25 Time: 1822 By/Acid Lot#: rod
within 48 hours To Be Lab Filtered client ~ 3/7/25

Sample Receiving Notes:

14. Was there a need to contact Project Manager? ☒ Yes / No

a. Was there a need to contact the client? ☒ Yes / No

Who was contacted? Date: Time: By:

Resolution:

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	645558	Yes	N/A	Yes	8 oz jar	NP	
1	645559	Yes	N/A	Yes	8 oz jar	NP	
1	645686	Yes	N/A	Yes	8 oz jar	NP	
1	645687	Yes	N/A	Yes	8 oz jar	NP	
2	645560	Yes	N/A	Yes	VOA Vial	DI Water	
2	645561	Yes	N/A	Yes	VOA Vial	DI Water	
2	645562	Yes	N/A	Yes	VOA Vial	MeOH	
2	645563	Yes	N/A	Yes	4 oz. Jar	NP	

2nd Review

Were all containers scanned into storage/lab?

Are barcode labels on correct containers?

Are all Flashpoint stickers attached/container ID # circled?

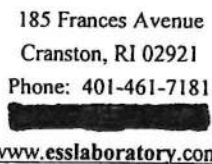
Are all Hex Chrome stickers attached?

Are all QC stickers attached?

Are VOA stickers attached if bubbles noted?

Initials TD
☒ Yes / No
☒ Yes / No / NA
☒ Yes / No / NA
☒ Yes / No / NA
☒ Yes / No / NA

Completed By: [Signature] Date & Time: 3/7/25 1813
Reviewed By: [Signature] Date & Time: 3/7/25 1822



ESS Lab #	258 0742	Page	3	of	3

ELECTRONIC DELIVERABLES (Final Reports are PDF)

Turn Time	☐ > 5	☐ 5	☐ 4	☐ 3	☐ 2	☐ 1	☐ Same Day
Regulatory State:	MA		Criteria: G-1/SW-1/401WQC				
Is this project for any of the following?:							
☐ CT RCP	☒ MA MCP	☐ RGP	☐ Permit	☒ 401 WQ			

☒ Limit Checker ☐ State Forms ☐ EQuIS
☒ Excel ☐ Hard Copy ☐ Enviro Data
☐ CLP-Like Package ☐ Other (Specify) →

PROJECT INFORMATION

REQUESTED ANALYSES

Client: Horsley Witten Group
Address: 90 Route 1A
Sandwich
Phone: 508-833-6600
Email Distribution List:
cgrand@horsleywitten-wm

Project Name: Lily Pond
Project Location: Nantuxet, MA
Project Number: 2008C
Project Manager:
Bill to:
PO#:
Quote#:

Client acknowledges that sampling is compliant with all EPA / State regulatory programs

	Total Number of Bottles
X	VOCs
X	.f. Solids
X	PORA 8
X	PCBS
X	SVOCS
X	TPH
X	EPH
X	Pesticides/Herb.
X	pH, cond.
X	Flash point
X	~~Cond.~~ Reactivity
X	Grain size
X	TOC
X	.f. water

Total Number of Bottles

smd 3/10/25

Container Type:	AC-Air Cassette	AG-Amber Glass	B-BOD Bottle	C-Cubitainer	J-Jar	O-Other	P-Poly	S-Sterile	V-Vial		
Container Volume:	1-100 mL	2-2.5 gal	3-250 mL	4-300 mL	5-500 mL	6-1L	7-VOA	8-2 oz	9-4 oz	10-8 oz	11-Other*
Preservation Code:	1-Non Preserved	2-HCl	3-H2SO4	4-HNO3	5-NaOH	6-Methanol	7-Na2S2O3	8-ZnAce, NaOH	9-NH4Cl	10-DI H2O	11-Other

Sampled by: Carlin Gran

Chain needs to be filled out neatly and completely for on time delivery.

Laboratory Use Only

Cooler Temperature (°C): 4.4

10

Comments: * Please specify "Other" preservative and containers types in this space
Grab Pl. vials frozen w/in 48 hours

All samples submitted are subject to ESS Laboratory's payment terms and conditions.

Dissolved Filtration

☐ Lab Filter

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
<i>Carol Ann</i>	3/7/25	1430	<i>Shirley A. 3/7/25 14:31</i>	<i>Shirley A.</i>	3/7/25	17:32	<i>Carol Ann</i>
Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)



ANALYTICAL REPORT

PREPARED FOR

Attn: Gary Hedman
Horsley Witten Group Inc
90 Route 6A
Unit #1
Sandwich, Massachusetts 02563

Generated 6/9/2026 7:19:36 PM

JOB DESCRIPTION

Lily Pond

JOB NUMBER

620-38400-1

Eurofins Rhode Island

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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6/9/2026 7:19:36 PM

Authorized for release by
Bianca Heng, Project Manager
Bianca.Heng@et.eurofinsus.com
(413)789-9018

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Definitions/Glossary

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38400-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

MassDEP Analytical Protocol Certification Form

Laboratory Name: Eurofins Rhode Island

Project #: 620-38400-1

Project Location: Lily Pond

RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
620-38400-4, 620-38400-5, 620-38400-9

Matrices: ☐ Groundwater/Surface Water/Wastewater/Landfill Leachate ☒ Soil/Sediment ☐ Biosolids
☐ Tissue ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocol (check all that apply below:)

8260 VOC CAM II A ☐	7470/7471 Hg CAM III B ☐	MassDEP VPH CAM IV A ☐ PID/FID CAM IV C ☐ GC/MS	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	MassDEP APH CAM IX A ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	MassDEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐
6010 Metals CAM III A ☐	6020 Metals CAM III D ☒	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐	1633 PFAS CAM X A ☐

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☒ Yes ☐ No ¹
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	☒ Yes ☐ No ¹
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☒ Yes ☐ No ¹
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	☒ Yes ☐ No ¹
E1	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes ☐ No ¹
E2	PFAS only: Were aqueous samples extracted without filtering?	☐ Yes ☐ No ¹
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	☒ Yes ☐ No ¹

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits/lower limits of quantitation at or below all CAM reporting limits/lower limits of quantitation specified in the selected CAM protocol(s)?	☒ Yes ☐ No ¹

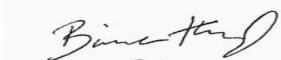
Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	☒ Yes ☐ No ¹
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes ☒ No ¹

¹ All negative responses must be addressed in an attached laboratory narrative.

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

Signature:



Position: Project Manager

Printed Name: Bianca Heng

Date: 06/09/2026

Case Narrative

Client: Horsley Witten Group Inc
Project: Lily Pond

Job ID: 620-38400-1

Job ID: 620-38400-1

Eurofins Rhode Island

Job Narrative 620-38400-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 5/27/2026 3:32 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Biology

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Question I

All samples for Metals were run for a subset of the required MCP list per the client's request.

Eurofins Rhode Island

Detection Summary

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38400-1

Client Sample ID: 2025-SS-11

Lab Sample ID: 620-38400-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	4.8		2.7	MPN/g	1	✱	9221E	Total/NA

Client Sample ID: 2025-SS-10

Lab Sample ID: 620-38400-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	24		2.1	MPN/g	1	✱	9221E	Total/NA

Client Sample ID: 2025-SS-9

Lab Sample ID: 620-38400-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	100		1.7	MPN/g	1	✱	9221E	Total/NA

Client Sample ID: 2025-SS-8

Lab Sample ID: 620-38400-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	154		0.500	mg/Kg	5	✱	6020B	Total/NA
Coliform, Fecal	<3		2.0	MPN/g	1	✱	9221E	Total/NA

Client Sample ID: 2025-SS-7

Lab Sample ID: 620-38400-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	33.2		0.226	mg/Kg	5	✱	6020B	Total/NA
Coliform, Fecal	12		1.0	MPN/g	1	✱	9221E	Total/NA

Client Sample ID: 2025-SS-6

Lab Sample ID: 620-38400-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	230		1.8	MPN/g	1	✱	9221E	Total/NA

Client Sample ID: 2025-SS-5

Lab Sample ID: 620-38400-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	1700		2.0	MPN/g	1	✱	9221E	Total/NA

Client Sample ID: 2025-SS-3

Lab Sample ID: 620-38400-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	>31000		2.1	MPN/g	1	✱	9221E	Total/NA

Client Sample ID: 2025-SS-2

Lab Sample ID: 620-38400-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	3830		12.3	mg/Kg	50	✱	6020B	Total/NA
Coliform, Fecal	4000		4.8	MPN/g	1	✱	9221E	Total/NA

Client Sample ID: 2025-SS-1

Lab Sample ID: 620-38400-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Coliform, Fecal	20		1.7	MPN/g	1	✱	9221E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Rhode Island

Client Sample Results

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38400-1

Client Sample ID: 2025-SS-11

Date Collected: 05/27/26 08:50

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-1

Matrix: Solid

Percent Solids: 41.6

Method: SM 9221E - Coliforms, Fecal (Multiple-Tube Fermentation)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	4.8		2.7	MPN/g	☆		05/27/26 17:00	1

Client Sample ID: 2025-SS-10

Date Collected: 05/27/26 09:00

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-2

Matrix: Solid

Percent Solids: 53.3

Method: SM 9221E - Coliforms, Fecal (Multiple-Tube Fermentation)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	24		2.1	MPN/g	☆		05/27/26 17:00	1

Client Sample ID: 2025-SS-9

Date Collected: 05/27/26 09:30

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-3

Matrix: Solid

Percent Solids: 67.2

Method: SM 9221E - Coliforms, Fecal (Multiple-Tube Fermentation)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	100		1.7	MPN/g	☆		05/27/26 17:00	1

Client Sample ID: 2025-SS-8

Date Collected: 05/27/26 09:15

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-4

Matrix: Solid

Percent Solids: 55.7

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	154		0.500	mg/Kg	☆	06/03/26 10:11	06/03/26 14:55	5

Method: SM 9221E - Coliforms, Fecal (Multiple-Tube Fermentation)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	<3		2.0	MPN/g	☆		05/27/26 17:00	1

Client Sample ID: 2025-SS-7

Date Collected: 05/27/26 10:05

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-5

Matrix: Solid

Percent Solids: 108.0

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	33.2		0.226	mg/Kg	☆	06/03/26 10:11	06/03/26 14:58	5

Method: SM 9221E - Coliforms, Fecal (Multiple-Tube Fermentation)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	12		1.0	MPN/g	☆		05/27/26 17:00	1

Client Sample ID: 2025-SS-6

Date Collected: 05/27/26 11:05

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-6

Matrix: Solid

Percent Solids: 61.5

Method: SM 9221E - Coliforms, Fecal (Multiple-Tube Fermentation)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	230		1.8	MPN/g	☆		05/27/26 17:00	1

Eurofins Rhode Island

Client Sample Results

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38400-1

Client Sample ID: 2025-SS-5

Date Collected: 05/27/26 11:00

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-7

Matrix: Solid

Percent Solids: 54.3

Method: SM 9221E - Coliforms, Fecal (Multiple-Tube Fermentation)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	1700		2.0	MPN/g	☼		05/27/26 17:00	1

Client Sample ID: 2025-SS-3

Date Collected: 05/27/26 10:20

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-8

Matrix: Solid

Percent Solids: 52.2

Method: SM 9221E - Coliforms, Fecal (Multiple-Tube Fermentation)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	>31000		2.1	MPN/g	☼		05/27/26 17:00	1

Client Sample ID: 2025-SS-2

Date Collected: 05/27/26 10:35

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-9

Matrix: Solid

Percent Solids: 23.0

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3830		12.3	mg/Kg	☼	06/03/26 10:11	06/03/26 15:11	50

Method: SM 9221E - Coliforms, Fecal (Multiple-Tube Fermentation)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	4000		4.8	MPN/g	☼		05/27/26 17:00	1

Client Sample ID: 2025-SS-1

Date Collected: 05/27/26 11:30

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-10

Matrix: Solid

Percent Solids: 64.2

Method: SM 9221E - Coliforms, Fecal (Multiple-Tube Fermentation)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	20		1.7	MPN/g	☼		05/27/26 17:00	1

QC Sample Results

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38400-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 620-68434/1-A

Matrix: Solid

Analysis Batch: 68500

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68434

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.259	mg/Kg		06/03/26 10:11	06/03/26 14:46	5

Lab Sample ID: LCDSRM 620-68434/3-A

Matrix: Solid

Analysis Batch: 68500

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 68434

Analyte	Spike Added	LCDSRM Result	LCDSRM Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	297	250.5		mg/Kg		84.3	68.4 - 100.0	1	20
Cadmium	171	157.4		mg/Kg		92.0	70.2 - 101.8	4	20
Chromium	98.7	86.65		mg/Kg		87.8	73.2 - 107.4	1	20
Lead	143	118.7		mg/Kg		83.0	74.8 - 108.4	1	20

Lab Sample ID: LCSSRM 620-68434/2-A

Matrix: Solid

Analysis Batch: 68500

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 68434

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	297	247.9		mg/Kg		83.5	68.4 - 100.0
Cadmium	171	151.0		mg/Kg		88.3	70.2 - 101.8
Chromium	98.7	87.60		mg/Kg		88.8	73.2 - 107.4
Lead	143	119.8		mg/Kg		83.8	74.8 - 108.4

Method: 9221E - Coliforms, Fecal (Multiple-Tube Fermentation)

Lab Sample ID: POS 296-818/1

Matrix: Solid

Analysis Batch: 818

Client Sample ID: Positive Control

Prep Type: Total/NA

Analyte	POS Result	POS Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Coliform, Fecal	100		0.11	MPN/g			05/27/26 17:00	1

QC Association Summary

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38400-1

Metals

Prep Batch: 68434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38400-4	2025-SS-8	Total/NA	Solid	3050B	
620-38400-5	2025-SS-7	Total/NA	Solid	3050B	
620-38400-9	2025-SS-2	Total/NA	Solid	3050B	
MB 620-68434/1-A	Method Blank	Total/NA	Solid	3050B	
LCDSRM 620-68434/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 620-68434/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 68500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38400-4	2025-SS-8	Total/NA	Solid	6020B	68434
620-38400-5	2025-SS-7	Total/NA	Solid	6020B	68434
620-38400-9	2025-SS-2	Total/NA	Solid	6020B	68434
MB 620-68434/1-A	Method Blank	Total/NA	Solid	6020B	68434
LCDSRM 620-68434/3-A	Lab Control Sample Dup	Total/NA	Solid	6020B	68434
LCSSRM 620-68434/2-A	Lab Control Sample	Total/NA	Solid	6020B	68434

General Chemistry

Analysis Batch: 909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38400-1	2025-SS-11	Total/NA	Solid	Moisture - 2540	
620-38400-2	2025-SS-10	Total/NA	Solid	Moisture - 2540	
620-38400-3	2025-SS-9	Total/NA	Solid	Moisture - 2540	
620-38400-4	2025-SS-8	Total/NA	Solid	Moisture - 2540	
620-38400-5	2025-SS-7	Total/NA	Solid	Moisture - 2540	
620-38400-6	2025-SS-6	Total/NA	Solid	Moisture - 2540	
620-38400-7	2025-SS-5	Total/NA	Solid	Moisture - 2540	
620-38400-8	2025-SS-3	Total/NA	Solid	Moisture - 2540	
620-38400-9	2025-SS-2	Total/NA	Solid	Moisture - 2540	
620-38400-10	2025-SS-1	Total/NA	Solid	Moisture - 2540	

Biology

Analysis Batch: 818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38400-1	2025-SS-11	Total/NA	Solid	9221E	
620-38400-2	2025-SS-10	Total/NA	Solid	9221E	
620-38400-3	2025-SS-9	Total/NA	Solid	9221E	
620-38400-4	2025-SS-8	Total/NA	Solid	9221E	
620-38400-5	2025-SS-7	Total/NA	Solid	9221E	
620-38400-6	2025-SS-6	Total/NA	Solid	9221E	
620-38400-7	2025-SS-5	Total/NA	Solid	9221E	
620-38400-8	2025-SS-3	Total/NA	Solid	9221E	
620-38400-9	2025-SS-2	Total/NA	Solid	9221E	
620-38400-10	2025-SS-1	Total/NA	Solid	9221E	
POS 296-818/1	Positive Control	Total/NA	Solid	9221E	

Lab Chronicle

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38400-1

Client Sample ID: 2025-SS-11

Date Collected: 05/27/26 08:50

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture - 2540		1	909	BC	EET MDB	06/01/26 09:57

Client Sample ID: 2025-SS-11

Date Collected: 05/27/26 08:50

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-1

Matrix: Solid

Percent Solids: 41.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9221E		1	818	GG	EET MDB	05/27/26 17:00 - 05/28/26 17:18 ¹

Client Sample ID: 2025-SS-10

Date Collected: 05/27/26 09:00

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture - 2540		1	909	BC	EET MDB	06/01/26 09:57

Client Sample ID: 2025-SS-10

Date Collected: 05/27/26 09:00

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-2

Matrix: Solid

Percent Solids: 53.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9221E		1	818	GG	EET MDB	05/27/26 17:00 - 05/28/26 17:18 ¹

Client Sample ID: 2025-SS-9

Date Collected: 05/27/26 09:30

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture - 2540		1	909	BC	EET MDB	06/01/26 09:57

Client Sample ID: 2025-SS-9

Date Collected: 05/27/26 09:30

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-3

Matrix: Solid

Percent Solids: 67.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9221E		1	818	GG	EET MDB	05/27/26 17:00 - 05/28/26 17:18 ¹

Client Sample ID: 2025-SS-8

Date Collected: 05/27/26 09:15

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture - 2540		1	909	BC	EET MDB	06/01/26 09:57

Eurofins Rhode Island

Lab Chronicle

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38400-1

Client Sample ID: 2025-SS-8

Date Collected: 05/27/26 09:15

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-4

Matrix: Solid

Percent Solids: 55.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			68434	CES	EET RI	06/03/26 10:11
Total/NA	Analysis	6020B		5	68500	CES	EET RI	06/03/26 14:55
Total/NA	Analysis	9221E		1	818	GG	EET MDB	05/27/26 17:00 - 05/28/26 17:18 ¹

Client Sample ID: 2025-SS-7

Date Collected: 05/27/26 10:05

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture - 2540		1	909	BC	EET MDB	06/01/26 09:57

Client Sample ID: 2025-SS-7

Date Collected: 05/27/26 10:05

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-5

Matrix: Solid

Percent Solids: 108.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			68434	CES	EET RI	06/03/26 10:11
Total/NA	Analysis	6020B		5	68500	CES	EET RI	06/03/26 14:58
Total/NA	Analysis	9221E		1	818	GG	EET MDB	05/27/26 17:00 - 05/28/26 17:18 ¹

Client Sample ID: 2025-SS-6

Date Collected: 05/27/26 11:05

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture - 2540		1	909	BC	EET MDB	06/01/26 09:57

Client Sample ID: 2025-SS-6

Date Collected: 05/27/26 11:05

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-6

Matrix: Solid

Percent Solids: 61.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9221E		1	818	GG	EET MDB	05/27/26 17:00 - 05/28/26 17:18 ¹

Client Sample ID: 2025-SS-5

Date Collected: 05/27/26 11:00

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture - 2540		1	909	BC	EET MDB	06/01/26 09:57

Eurofins Rhode Island

Lab Chronicle

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38400-1

Client Sample ID: 2025-SS-5

Date Collected: 05/27/26 11:00

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-7

Matrix: Solid

Percent Solids: 54.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9221E		1	818	GG	EET MDB	05/27/26 17:00 - 05/28/26 17:18 ¹

Client Sample ID: 2025-SS-3

Date Collected: 05/27/26 10:20

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture - 2540		1	909	BC	EET MDB	06/01/26 09:57

Client Sample ID: 2025-SS-3

Date Collected: 05/27/26 10:20

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-8

Matrix: Solid

Percent Solids: 52.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9221E		1	818	GG	EET MDB	05/27/26 17:00 - 05/28/26 17:18 ¹

Client Sample ID: 2025-SS-2

Date Collected: 05/27/26 10:35

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture - 2540		1	909	BC	EET MDB	06/01/26 09:57

Client Sample ID: 2025-SS-2

Date Collected: 05/27/26 10:35

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-9

Matrix: Solid

Percent Solids: 23.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			68434	CES	EET RI	06/03/26 10:11
Total/NA	Analysis	6020B		50	68500	CES	EET RI	06/03/26 15:11
Total/NA	Analysis	9221E		1	818	GG	EET MDB	05/27/26 17:00 - 05/28/26 17:18 ¹

Client Sample ID: 2025-SS-1

Date Collected: 05/27/26 11:30

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture - 2540		1	909	BC	EET MDB	06/01/26 09:57

Client Sample ID: 2025-SS-1

Date Collected: 05/27/26 11:30

Date Received: 05/27/26 15:32

Lab Sample ID: 620-38400-10

Matrix: Solid

Percent Solids: 64.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	9221E		1	818	GG	EET MDB	05/27/26 17:00 - 05/28/26 17:18 ¹

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Eurofins Rhode Island

Lab Chronicle

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38400-1

Laboratory References:

EET MDB = Eurofins Middleborough, 422 W Grove St, Middleborough, MA 02346, TEL (508)946-2225
EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

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Accreditation/Certification Summary

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38400-1

Laboratory: Eurofins Rhode Island

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-26
The following analytes are included in this report, but the laboratory is not certified by Massachusetts State M-RI907. This list may include analytes for which the agency does not offer certification:			
Analysis Method	Prep Method	Matrix	Analyte
6020B	3050B	Solid	Lead

Laboratory: Eurofins Middleborough

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-MA022	06-30-27
Rhode Island	State	MA022	06-30-27

Method Summary

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38400-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET RI
Moisture - 2540	Percent Moisture	SM	EET MDB
9221E	Coliforms, Fecal (Multiple-Tube Fermentation)	SM	EET MDB
3050B	Preparation, Metals	SW846	EET RI

Protocol References:

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET MDB = Eurofins Middleborough, 422 W Grove St, Middleborough, MA 02346, TEL (508)946-2225

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

Sample Summary

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38400-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
620-38400-1	2025-SS-11	Solid	05/27/26 08:50	05/27/26 15:32	Massachusetts
620-38400-2	2025-SS-10	Solid	05/27/26 09:00	05/27/26 15:32	Massachusetts
620-38400-3	2025-SS-9	Solid	05/27/26 09:30	05/27/26 15:32	Massachusetts
620-38400-4	2025-SS-8	Solid	05/27/26 09:15	05/27/26 15:32	Massachusetts
620-38400-5	2025-SS-7	Solid	05/27/26 10:05	05/27/26 15:32	Massachusetts
620-38400-6	2025-SS-6	Solid	05/27/26 11:05	05/27/26 15:32	Massachusetts
620-38400-7	2025-SS-5	Solid	05/27/26 11:00	05/27/26 15:32	Massachusetts
620-38400-8	2025-SS-3	Solid	05/27/26 10:20	05/27/26 15:32	Massachusetts
620-38400-9	2025-SS-2	Solid	05/27/26 10:35	05/27/26 15:32	Massachusetts
620-38400-10	2025-SS-1	Solid	05/27/26 11:30	05/27/26 15:32	Massachusetts

ESS Laboratory

Analytical Balance BAL Laboratory

185 Frances Avenue, Cranston, RI 02910
Phone: 401-461-7181
www.esslaboratory.com

Work Order #

Turn Time (Days) ☒ Standard ☐ 4 ☐ 3 ☐ 2 ☐ 1 ☐ SameDay

Regulatory State: MA

Criteria:

PROJECT TYPE

☐ CT RCP ☐ MA MCP ☐ RGP ☐ Permit ☐ 401 WQ ☐ Drinking Water

CLIENT INFORMATION

Client: HORSLEY WITHEN GROUP
Address: 90 ROUTE 10A
SANDWICH, MA
Phone: 508-833-1060
Persons: cgran@horsleywithen.com
Authorized: to Receive gned man@horsleywithen.com
Data:

Project Name: Lily Pond
Project Location: Northwick, MA
Project Number: 2008
Project Manager: Gary Hedman
Bill to:
PO#:
Quote#:

PROJECT INFORMATION

Client acknowledges that sampling is compliant with all EPA / State regulatory programs.

Sample ID

Sample Matrix

Sample Type

Collection Date

Collection Time

Laboratory ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID	Lead	Fecal Coliform	Total Number of Bottles
1	5/27/24	850	comp	Sed.	2025-SS-11	X	X	
2		900			2025-SS-10	X	X	
3		930			2025-SS-9	X	X	
4		915			2025-SS-8	X	X	
5		1005			2025-SS-7	X	X	
6		1105			2025-SS-6	X	X	
7		1100			2025-SS-5	X	X	
8		1020			2025-SS-3	X	X	
9		1035			2025-SS-2	X	X	
10		1130			2025-SS-1	X	X	



620-38400 COC

Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubittainer J-Jar O-Other P-Poly S-Sterile V-Vial

Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other

Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAcAc 9-NH4Cl 10-DI H2O 11-Other

Number of Bottles per Sample:

Sampled by: Caroline Gran

Comments: * Please specify "Other" preservative and containers types in this space

*Please run TUP for lead that exceeds tox rule. *short hold time (hrs) for fecal coliform *

Cooler Temperature (°C): 5.6
Client approval required for temperature >6°C
☐ Approved by Client (Initials/date →)

Relinquished by (Signature) Date Time

Relinquished by (Signature) Date Time

Relinquished by (Signature) Date Time

Relinquished by (Signature) Date Time

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Relinquished by (Signature) Date Time

Relinquished by (Signature) Date Time

Relinquished by (Signature) Date Time

Relinquished by (Signature) Date Time

Relinquished by (Signature) Date Time

620-38400

Page 1 of 1

Electronic Deliverables (Final Reports are PDF)

Amount \$

Check #

V MC D AmEx Cash

Other (Specify) →

Requested Analyses

State Upload

Enviro Data

CLP-Like Package

Received by (Signature)

Received by (Signature)

Received by (Signature)

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Eurofins Rhode Island Laboratory Sample and Cooler Receipt Checklist

Client: Horsley Witten GroupTALS Job ID: 38400Shipped/Delivered Via: CourierDate Received: 6/2/20TAT Requested: STD1 Air bill manifest present? YES / NO
Air No.: _____4. Was COC signed and dated by client? YES / NO2 Were custody seals present? YES / NO5 Does COC match bottles? ★ YES / NO3. Is a Cooler Present? YES / NO6 Is COC complete and correct? ★ YES / NOAt Temp: 5.6°C Iced with: _____7 Were samples received intact? YES / NO

Temp: _____ Iced with: _____

8. Were labs informed about short holds & rushes? YES / NO / NATemp: 5.7°C Iced with: ice #6 ARIER

Temp: _____ Iced with: _____

9 Were any analyses received outside of hold time? YES / NO11 Any Subcontracting needed? YES / NO12 Were VOAs received? YES / NO

TALS Sample IDs: _____

a. Air bubbles in aqueous VOAs?

YES / NO / NA

Analysis: _____

b Does methanol cover soil completely?

YES / NO / NA

TAT: _____

13 Are the samples properly preserved? Yes / No

a. If metals, unpreserved delivered to the lab? Date: _____

Time: _____ By/Acid Lot#: _____

b. Low Level VOA vials frozen? Date: _____

Time: _____ By: _____

Sample Receiving Notes.

★ This was second time receiving this job/chain. Samples got incorrectly subbed, then sent back. Received samp. 4,5,9.

14 Was there a need to contact Project Manager? Yes / Noa. Was there a need to contact the client? Yes / No

Who was contacted? _____ Date: _____ Time: _____ By: _____

Resolution: _____

2nd Review

Were all containers scanned into storage/lab?

Initials: CHE

Are barcode labels on correct containers?

YES / NO

Are all Flashpoint stickers attached/container ID # circled?

YES / NO / NA

Are all Hex Chrome stickers attached?

YES / NO / NA

Are all QC stickers attached?

YES / NO / NA

Are VOA stickers attached if bubbles noted?

YES / NO / NA

Are Composite stickers added if needed?

YES / NO / NA

Completed

By: ANDate & Time: 6/2/20 1715

Reviewed

By: CHEDate & Time: 6/2/20 18146

Analytical Balance BAL Laboratory

www.esslaboratory.com

620 - 38400

Page 4 of 4

Turn Time (Days) ☒ Standard ☐ 4 ☐ 3 ☐ 2 ☐ 1 ☐ SameDay										PAYMENT		ELECTRONIC DELIVERABLES (Final Reports are PDF)	
Regulatory State: <u>MA</u> Criteria:										Amount \$ _____		☐ EquiS ☐ State Upload	
PROJECT TYPE										Check # _____		☐ Enviro Data ☐ CLP-Like Package	
☐ CT RCP ☐ MA MCP ☐ RGP ☐ Permit ☐ 401 WQ ☐ Drinking Water										V MC D AmEx Cash		☐ Other (Specify) → _____	

CLIENT INFORMATION						PROJECT INFORMATION							REQUESTED ANALYSES														
Client: Horsley Witten Group Address: 90 Route 6A Sandwich, MA Phone: 508-833-6600 Persons Authorized to Receive Data: Cgran@horsleywitten.com gredman@horsleywitten.com						Project Name: Lily Pond Project Location: Nantucket, MA Project Number: 22008 Project Manager: Gary Hedeman Bill to: PO#: Quote#:					Client acknowledges that sampling is compliant with all EPA / State regulatory programs.																
Laboratory ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID	Fecal Coliform	Lead											Total Number of Bottles									
1	5/27/26	850	wamp	Sed.	2025-SS-11	X																					
2		900			2025-SS-10	X																					
3		930			2025-SS-9	X																					
4		915			2025-SS-8	X	X																				
5		1005			2025-SS-7	X	X																				
6		1105			2025-SS-6	X																					
7		1100			2025-SS-5	X																					
8		1020			2025-SS-3	X																					
9		1035			2025-SS-2	X	X																				
10		1130			2025-SS-1	X																					
Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial																											
Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other*																											
Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DI H2O 11-Other																											
Number of Bottles per Sample:																											
Shipping Conditions (circle one)				Sampled by: Caroline Gran					Chain needs to be filled out neatly and completely for on time delivery.																		
Ice ☒ Ambient ☐ Cooler Temperature (*C): 5 - 6 Client approval required for temperature >6°C ☐ Approved by Client (initials/date →)				Comments: * Please specify "Other" preservative and containers types in this space *please run TCLP for lead that exceeds 20x rule. *short hold time(6hrs) for fecal coliform*					All samples submitted are subject to ESS Laboratory's payment terms and conditions.						Dissolved Filtration ☐ Laboratory Filter ☐ Field Filter												
Relinquished by (Signature)		Date	Time	Received By (Signature)		Relinquished by (Signature)		Date	Time	Received by (Signature)																	
Caroline Cu		5/27/27	1500	[Signature]		[Signature]		5/27/2025	15:52	[Signature]																	
Relinquished by (Signature)		Date	Time	Received By (Signature)		Relinquished by (Signature)		Date	Time	Received by (Signature)																	

Login Sample Receipt Checklist

Client: Horsley Witten Group Inc

Job Number: 620-38400-1

Login Number: 38400

List Source: Eurofins Rhode Island

List Number: 1

Creator: Madison, Ashley L

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		

Login Sample Receipt Checklist

Client: Horsley Witten Group Inc

Job Number: 620-38400-1

Login Number: 38400

List Number: 2

Creator: Travers, Janene

List Source: Eurofins Middleborough

List Creation: 05/28/26 07:29 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample Preservation Verified.	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

PREPARED FOR

Attn: Gary Hedman
Horsley Witten Group Inc
90 Route 6A
Unit #1
Sandwich, Massachusetts 02563

Generated 6/9/2026 12:24:05 PM

JOB DESCRIPTION

Lily Pond
20008

JOB NUMBER

620-38401-1

Eurofins Rhode Island

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



Generated
6/9/2026 12:24:05 PM

Authorized for release by
Bianca Heng, Project Manager
Bianca.Heng@et.eurofinsus.com
(413)789-9018

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Method Summary 36

Sample Summary 37

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Definitions/Glossary

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Horsley Witten Group Inc
Project: Lily Pond

Job ID: 620-38401-1

Job ID: 620-38401-1

Eurofins Rhode Island

Job Narrative 620-38401-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The sample was received on 5/27/2026 5:46 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.1°C.

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

Method 625.1: The continuing calibration verification (CCV) associated with batch 410-828686 recovered above the upper control limit for 4-Nitrophenol. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method SM 4500 Cl G: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: LP-GW-1 (620-38401-1).

Method SM 4500 Cl G: The following sample was diluted due to the nature of the sample matrix: LP-GW-1 (620-38401-1). Elevated reporting limits (RLs) are provided.

Method SM 4500 Cl G: The matrix spike (MS) recoveries for analytical batch 620-67880 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 7196A: Sample LP-GW-1 (620-38401-1) was/were received outside of holding time.

Method 7196A: The following sample was diluted due to the nature of the sample matrix: LP-GW-1 (620-38401-1). Elevated reporting limits (RLs) are provided.

Method 7196A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 620-67879 were outside control

Eurofins Rhode Island

Case Narrative

Client: Horsley Witten Group Inc
Project: Lily Pond

Job ID: 620-38401-1

Job ID: 620-38401-1 (Continued)

Eurofins Rhode Island

limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Rhode Island

Detection Summary

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Client Sample ID: LP-GW-1

Lab Sample ID: 620-38401-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Chloride	59.3		15.0	mg/L	10		EPA 300.0 R2.1	Total/NA
Calcium	16.9		0.500	mg/L	1		200.7 Rev 4.4	Total/NA
Magnesium	3.42		0.200	mg/L	1		200.7 Rev 4.4	Total/NA
Lead	4.11		2.00	ug/L	1		200.8	Total/NA
Fe	18700		100	ug/L	1		200.8	Total/NA
Fe	18900		100	ug/L	1		200.8	Dissolved
Total Suspended Solids	33.0		30.0	mg/L	1		2540D-2015	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Rhode Island

Client Sample Results

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Client Sample ID: LP-GW-1

Lab Sample ID: 620-38401-1

Date Collected: 05/26/26 15:00

Matrix: Water

Date Received: 05/27/26 17:46

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00	ug/L			05/29/26 14:15	1
1,1,2-Trichloroethane	ND		1.00	ug/L			05/29/26 14:15	1
1,1-Dichloroethane	ND		1.00	ug/L			05/29/26 14:15	1
1,1-Dichloroethene	ND		1.00	ug/L			05/29/26 14:15	1
1,2-Dichlorobenzene	ND		1.00	ug/L			05/29/26 14:15	1
1,2-Dichloroethane	ND		1.00	ug/L			05/29/26 14:15	1
1,2-Dichloroethene, Total	ND		2.00	ug/L			05/29/26 14:15	1
1,2-Dichloropropane	ND		1.00	ug/L			05/29/26 14:15	1
1,3-Dichlorobenzene	ND		1.00	ug/L			05/29/26 14:15	1
1,3-Dichloropropene, Total	ND		2.00	ug/L			05/29/26 14:15	1
1,4-Dichlorobenzene	ND		1.00	ug/L			05/29/26 14:15	1
Acetone	ND		10.0	ug/L			05/29/26 14:15	1
Benzene	ND		1.00	ug/L			05/29/26 14:15	1
Carbon tetrachloride	ND		1.00	ug/L			05/29/26 14:15	1
Chloromethane	ND		2.00	ug/L			05/29/26 14:15	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			05/29/26 14:15	1
Ethanol	ND		200	ug/L			05/29/26 14:15	1
Ethylbenzene	ND		1.00	ug/L			05/29/26 14:15	1
Methyl tert-butyl ether	ND		1.00	ug/L			05/29/26 14:15	1
Methylene Chloride	ND		10.0	ug/L			05/29/26 14:15	1
m-Xylene & p-Xylene	ND		2.00	ug/L			05/29/26 14:15	1
Naphthalene	ND		2.00	ug/L			05/29/26 14:15	1
o-Xylene	ND		1.00	ug/L			05/29/26 14:15	1
t-Butyl alcohol	ND		10.0	ug/L			05/29/26 14:15	1
Tert-amyl methyl ether	ND		1.00	ug/L			05/29/26 14:15	1
Tetrachloroethene	ND		1.00	ug/L			05/29/26 14:15	1
Toluene	ND		1.00	ug/L			05/29/26 14:15	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			05/29/26 14:15	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			05/29/26 14:15	1
Trichloroethene	ND		1.00	ug/L			05/29/26 14:15	1
Vinyl chloride	ND		1.00	ug/L			05/29/26 14:15	1
Xylenes, Total	ND		3.00	ug/L			05/29/26 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130		05/29/26 14:15	1
Toluene-d8 (Surr)	105		70 - 130		05/29/26 14:15	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		05/29/26 14:15	1
Dibromofluoromethane (Surr)	108		70 - 130		05/29/26 14:15	1

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1
Acenaphthylene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1
Anthracene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1
Benzo[a]anthracene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1
Benzo[a]pyrene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1
Benzo[b]fluoranthene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1
Benzo[g,h,i]perylene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1
Benzo[k]fluoranthene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1
Bis(2-ethylhexyl) phthalate	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1

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Client Sample Results

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Client Sample ID: LP-GW-1

Lab Sample ID: 620-38401-1

Date Collected: 05/26/26 15:00

Matrix: Water

Date Received: 05/27/26 17:46

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Butylbenzylphthalate	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1
Chrysene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1
Dibenz(a,h)anthracene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1
Diethylphthalate	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1
Dimethylphthalate	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1
Di-n-butyl phthalate	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1
Di-n-octyl phthalate	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1
Fluoranthene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1
Fluorene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1
Indeno[1,2,3-cd]pyrene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1
Naphthalene	ND		2.00	ug/L		06/02/26 16:04	06/03/26 19:21	1
2,2'-oxybis[1-chloropropane]	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1
Pentachlorophenol	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1
Phenanthrene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1
Pyrene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	57		36 - 130	06/02/26 16:04	06/03/26 19:21	1
2-Fluorophenol (Surr)	32		10 - 130	06/02/26 16:04	06/03/26 19:21	1
Nitrobenzene-d5 (Surr)	50		18 - 130	06/02/26 16:04	06/03/26 19:21	1
Phenol-d5 (Surr)	23		10 - 130	06/02/26 16:04	06/03/26 19:21	1
p-Terphenyl-d14 (Surr)	58		11 - 138	06/02/26 16:04	06/03/26 19:21	1
2,4,6-Tribromophenol (Surr)	50		10 - 139	06/02/26 16:04	06/03/26 19:21	1

Method: SW846 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.195	ug/L		06/01/26 10:31	06/01/26 16:59	1
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	28		15 - 110			06/01/26 10:31	06/01/26 16:59	1

Method: EPA 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.400	ug/L		06/02/26 10:10	06/02/26 15:48	1
PCB-1221	ND		0.400	ug/L		06/02/26 10:10	06/02/26 15:48	1
PCB-1232	ND		0.400	ug/L		06/02/26 10:10	06/02/26 15:48	1
PCB-1242	ND		0.400	ug/L		06/02/26 10:10	06/02/26 15:48	1
PCB-1248	ND		0.400	ug/L		06/02/26 10:10	06/02/26 15:48	1
PCB-1254	ND		0.400	ug/L		06/02/26 10:10	06/02/26 15:48	1
PCB-1260	ND		0.400	ug/L		06/02/26 10:10	06/02/26 15:48	1
PCB-1262	ND		0.400	ug/L		06/02/26 10:10	06/02/26 15:48	1
PCB-1268	ND		0.400	ug/L		06/02/26 10:10	06/02/26 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	58		30 - 150	06/02/26 10:10	06/02/26 15:48	1
Tetrachloro-m-xylene (Surr)	48		30 - 150	06/02/26 10:10	06/02/26 15:48	1

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0194	ug/L		06/07/26 23:05	06/08/26 21:43	1

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Client Sample Results

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Client Sample ID: LP-GW-1

Lab Sample ID: 620-38401-1

Date Collected: 05/26/26 15:00

Matrix: Water

Date Received: 05/27/26 17:46

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane (Surr)	98		46 - 136	06/07/26 23:05	06/08/26 21:43	1
1,1,2,2-Tetrachloroethane (Surr)	92		46 - 136	06/07/26 23:05	06/08/26 21:43	1

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.3		15.0	mg/L			06/02/26 15:36	10

Method: EPA 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	16.9		0.500	mg/L		06/02/26 21:00	06/03/26 08:30	1
Magnesium	3.42		0.200	mg/L		06/02/26 21:00	06/03/26 08:30	1

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.00	ug/L		05/29/26 13:38	06/01/26 13:47	1
Arsenic	ND		2.00	ug/L		05/29/26 13:38	06/01/26 13:47	1
Cadmium	ND		1.00	ug/L		05/29/26 13:38	06/01/26 13:47	1
Chromium	ND		4.00	ug/L		05/29/26 13:38	06/01/26 13:47	1
Copper	ND		4.00	ug/L		05/29/26 13:38	06/01/26 13:47	1
Lead	4.11		2.00	ug/L		05/29/26 13:38	06/01/26 13:47	1
Nickel	ND		2.00	ug/L		05/29/26 13:38	06/01/26 13:47	1
Selenium	ND		4.00	ug/L		05/29/26 13:38	06/01/26 13:47	1
Silver	ND		2.00	ug/L		05/29/26 13:38	06/01/26 13:47	1
Zinc	ND		25.0	ug/L		05/29/26 13:38	06/01/26 13:47	1
Fe	18700		100	ug/L		05/29/26 13:38	06/01/26 13:47	1

Method: EPA 200.8 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.00	ug/L		05/29/26 13:38	06/01/26 13:50	1
Arsenic	ND		2.00	ug/L		05/29/26 13:38	06/01/26 13:50	1
Cadmium	ND		1.00	ug/L		05/29/26 13:38	06/01/26 13:50	1
Chromium	ND		4.00	ug/L		05/29/26 13:38	06/01/26 13:50	1
Copper	ND		4.00	ug/L		05/29/26 13:38	06/01/26 13:50	1
Lead	ND		2.00	ug/L		05/29/26 13:38	06/01/26 13:50	1
Nickel	ND		2.00	ug/L		05/29/26 13:38	06/01/26 13:50	1
Selenium	ND		4.00	ug/L		05/29/26 13:38	06/01/26 13:50	1
Silver	ND		2.00	ug/L		05/29/26 13:38	06/01/26 13:50	1
Zinc	ND		25.0	ug/L		05/29/26 13:38	06/01/26 13:50	1
Fe	18900		100	ug/L		05/29/26 13:38	06/01/26 13:50	1

Method: EPA 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	mg/L		05/28/26 18:08	05/29/26 00:43	1

Method: EPA 245.1 - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	mg/L		05/28/26 18:08	05/29/26 00:53	1

General Chemistry

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
SGT-HEM (1664B)	ND		4.9	mg/L		06/01/26 16:02	06/02/26 14:41	1

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Client Sample Results

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Client Sample ID: LP-GW-1

Lab Sample ID: 620-38401-1

Date Collected: 05/26/26 15:00

Matrix: Water

Date Received: 05/27/26 17:46

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (SM 2540D-2015)	33.0		30.0	mg/L			06/01/26 15:38	1
Cyanide, Total (EPA 335.4)	ND		0.00500	mg/L		06/03/26 18:05	06/03/26 21:03	1
Total Kjeldahl Nitrogen (EPA 351.2)	ND		7.50	mg/L		06/01/26 19:50	06/03/26 11:30	1
Nitrate Nitrite as N (EPA 353.2)	ND		0.0400	mg/L			05/29/26 20:57	1
Phenols, Total (EPA 420.4)	ND		0.0200	mg/L			06/02/26 14:39	1
Ammonia-N (SM 4500 NH3 C-2011)	ND		0.750	mg/L		06/03/26 08:30	06/03/26 10:03	1
Cr (III) (SW846 7196A)	ND		0.0100	mg/L			06/03/26 08:54	1
Cr (VI) (SW846 7196A)	ND	H H3 F1	0.0600	mg/L			05/27/26 18:57	10
Cr (SW846 7196A)	ND		4.00	mg/L			06/03/26 08:54	1
Cr (VI) (SW846 7196A)	ND		0.0600	mg/L			06/03/26 08:54	1
Chlorine, Total Residual (SM 4500 Cl G)	ND	HF F1	0.600	mg/L			05/27/26 18:59	10
Nitrogen, Total (EPA Total Nitrogen)	ND		7.50	mg/L			06/04/26 09:38	1

Surrogate Summary

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB (70-130)	TOL (70-130)	DCA (70-130)	DBFM (70-130)
620-38401-1	LP-GW-1	105	105	108	108
LCS 620-68021/4	Lab Control Sample	101	98	102	99
LCSD 620-68021/5	Lab Control Sample Dup	99	99	102	100
MB 620-68021/8	Method Blank	104	106	104	107

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (36-130)	2FP (10-130)	NBZ (18-130)	PHL (10-130)	TPHd14 (11-138)	TBP (10-139)
620-38401-1	LP-GW-1	57	32	50	23	58	50
LCS 410-828099/2-A	Lab Control Sample	63	48	65	33	82	84
MB 410-828099/1-A	Method Blank	75	46	74	28	91	81

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (30-150)	TCX1 (30-150)
620-38401-1	LP-GW-1	58	48
620-38401-1 MS	LP-GW-1	47	39
LCS 620-68325/2-A	Lab Control Sample	60	55
LCSD 620-68325/3-A	Lab Control Sample Dup	62	49
MB 620-67952/1-D	Method Blank	48	52
MB 620-68325/1-A	Method Blank	63	53

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene (Surr)

Surrogate Summary

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1122TCA1	1122TCA2
		(46-136)	(46-136)
620-38401-1	LP-GW-1	98	92
LCS 410-830956/2-A	Lab Control Sample	89	87
LCSD 410-830956/3-A	Lab Control Sample Dup	90	88
MB 410-830956/1-A	Method Blank	99	95
Surrogate Legend			
1122TCA = 1,1,2,2-Tetrachloroethane (Surr)			

Isotope Dilution Summary

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Method: 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (15-110)
620-38401-1	LP-GW-1	28
LCS 620-68196/2-A	Lab Control Sample	25
LCSD 620-68196/3-A	Lab Control Sample Dup	26
MB 620-68196/1-A	Method Blank	23

Surrogate Legend

DXE = 1,4-Dioxane-d8

QC Sample Results

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 620-68021/8

Matrix: Water

Analysis Batch: 68021

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.00	ug/L			05/29/26 11:19	1
1,1,2-Trichloroethane	ND		1.00	ug/L			05/29/26 11:19	1
1,1-Dichloroethane	ND		1.00	ug/L			05/29/26 11:19	1
1,1-Dichloroethene	ND		1.00	ug/L			05/29/26 11:19	1
1,2-Dichlorobenzene	ND		1.00	ug/L			05/29/26 11:19	1
1,2-Dichloroethane	ND		1.00	ug/L			05/29/26 11:19	1
1,2-Dichloroethene, Total	ND		2.00	ug/L			05/29/26 11:19	1
1,2-Dichloropropane	ND		1.00	ug/L			05/29/26 11:19	1
1,3-Dichlorobenzene	ND		1.00	ug/L			05/29/26 11:19	1
1,3-Dichloropropene, Total	ND		2.00	ug/L			05/29/26 11:19	1
1,4-Dichlorobenzene	ND		1.00	ug/L			05/29/26 11:19	1
Acetone	ND		10.0	ug/L			05/29/26 11:19	1
Benzene	ND		1.00	ug/L			05/29/26 11:19	1
Carbon tetrachloride	ND		1.00	ug/L			05/29/26 11:19	1
Chloromethane	ND		2.00	ug/L			05/29/26 11:19	1
cis-1,2-Dichloroethene	ND		1.00	ug/L			05/29/26 11:19	1
Ethanol	ND		200	ug/L			05/29/26 11:19	1
Ethylbenzene	ND		1.00	ug/L			05/29/26 11:19	1
Methyl tert-butyl ether	ND		1.00	ug/L			05/29/26 11:19	1
Methylene Chloride	ND		10.0	ug/L			05/29/26 11:19	1
m-Xylene & p-Xylene	ND		2.00	ug/L			05/29/26 11:19	1
Naphthalene	ND		2.00	ug/L			05/29/26 11:19	1
o-Xylene	ND		1.00	ug/L			05/29/26 11:19	1
t-Butyl alcohol	ND		10.0	ug/L			05/29/26 11:19	1
Tert-amyl methyl ether	ND		1.00	ug/L			05/29/26 11:19	1
Tetrachloroethene	ND		1.00	ug/L			05/29/26 11:19	1
Toluene	ND		1.00	ug/L			05/29/26 11:19	1
trans-1,2-Dichloroethene	ND		1.00	ug/L			05/29/26 11:19	1
trans-1,3-Dichloropropene	ND		1.00	ug/L			05/29/26 11:19	1
Trichloroethene	ND		1.00	ug/L			05/29/26 11:19	1
Vinyl chloride	ND		1.00	ug/L			05/29/26 11:19	1
Xylenes, Total	ND		3.00	ug/L			05/29/26 11:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130		05/29/26 11:19	1
Toluene-d8 (Surr)	106		70 - 130		05/29/26 11:19	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		05/29/26 11:19	1
Dibromofluoromethane (Surr)	107		70 - 130		05/29/26 11:19	1

Lab Sample ID: LCS 620-68021/4

Matrix: Water

Analysis Batch: 68021

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	21.44		ug/L		107	70 - 130
1,1,2-Trichloroethane	20.0	22.16		ug/L		111	70 - 130
1,1-Dichloroethane	20.0	19.17		ug/L		96	70 - 130
1,1-Dichloroethene	20.0	18.78		ug/L		94	50 - 150

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QC Sample Results

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 620-68021/4

Matrix: Water

Analysis Batch: 68021

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichlorobenzene	20.0	19.68		ug/L		98	65 - 135
1,2-Dichloroethane	20.0	19.65		ug/L		98	70 - 130
1,2-Dichloropropane	20.0	20.81		ug/L		104	35 - 165
1,3-Dichlorobenzene	20.0	19.25		ug/L		96	70 - 130
1,4-Dichlorobenzene	20.0	19.45		ug/L		97	65 - 135
Acetone	20.0	14.49		ug/L		72	50 - 150
Benzene	20.0	19.71		ug/L		99	65 - 135
Carbon tetrachloride	20.0	21.53		ug/L		108	70 - 130
Chloromethane	20.0	15.62		ug/L		78	2 - 205
cis-1,2-Dichloroethene	20.0	19.69		ug/L		98	60 - 140
Ethylbenzene	20.0	19.58		ug/L		98	60 - 140
Methyl tert-butyl ether	20.0	22.28		ug/L		111	60 - 140
Methylene Chloride	20.0	18.70		ug/L		94	60 - 140
m-Xylene & p-Xylene	40.0	37.38		ug/L		93	60 - 140
o-Xylene	20.0	19.29		ug/L		96	60 - 140
Tert-amyl methyl ether	20.0	21.88		ug/L		109	60 - 140
Tetrachloroethene	20.0	19.76		ug/L		99	70 - 130
Toluene	20.0	19.92		ug/L		100	70 - 130
trans-1,2-Dichloroethene	20.0	21.02		ug/L		105	70 - 130
trans-1,3-Dichloropropene	20.0	23.23		ug/L		116	50 - 150
Trichloroethene	20.0	20.53		ug/L		103	65 - 135
Vinyl chloride	20.0	16.40		ug/L		82	5 - 195

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130

Lab Sample ID: LCSD 620-68021/5

Matrix: Water

Analysis Batch: 68021

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	21.32		ug/L		107	70 - 130	1	
1,1,2-Trichloroethane	20.0	21.85		ug/L		109	70 - 130	1	
1,1-Dichloroethane	20.0	18.76		ug/L		94	70 - 130	2	
1,1-Dichloroethene	20.0	18.90		ug/L		95	50 - 150	1	
1,2-Dichlorobenzene	20.0	19.79		ug/L		99	65 - 135	1	
1,2-Dichloroethane	20.0	19.48		ug/L		97	70 - 130	1	
1,2-Dichloropropane	20.0	20.92		ug/L		105	35 - 165	1	
1,3-Dichlorobenzene	20.0	19.14		ug/L		96	70 - 130	1	
1,4-Dichlorobenzene	20.0	19.07		ug/L		95	65 - 135	2	
Acetone	20.0	13.70		ug/L		68	50 - 150	6	
Benzene	20.0	19.92		ug/L		100	65 - 135	1	
Carbon tetrachloride	20.0	21.16		ug/L		106	70 - 130	2	
Chloromethane	20.0	15.04		ug/L		75	2 - 205	4	
cis-1,2-Dichloroethene	20.0	19.94		ug/L		100	60 - 140	1	

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QC Sample Results

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 620-68021/5

Matrix: Water

Analysis Batch: 68021

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene	20.0	19.53		ug/L		98	60 - 140	0	
Methyl tert-butyl ether	20.0	22.28		ug/L		111	60 - 140	0	
Methylene Chloride	20.0	18.47		ug/L		92	60 - 140	1	
m-Xylene & p-Xylene	40.0	38.40		ug/L		96	60 - 140	3	
o-Xylene	20.0	19.23		ug/L		96	60 - 140	0	
Tert-amyl methyl ether	20.0	22.40		ug/L		112	60 - 140	2	
Tetrachloroethene	20.0	20.07		ug/L		100	70 - 130	2	
Toluene	20.0	19.75		ug/L		99	70 - 130	1	
trans-1,2-Dichloroethene	20.0	20.71		ug/L		104	70 - 130	1	
trans-1,3-Dichloropropene	20.0	23.47		ug/L		117	50 - 150	1	
Trichloroethene	20.0	20.20		ug/L		101	65 - 135	2	
Vinyl chloride	20.0	16.53		ug/L		83	5 - 195	1	

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 410-828099/1-A

Matrix: Water

Analysis Batch: 828686

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 828099

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
Acenaphthylene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
Anthracene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
Benzo[a]anthracene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
Benzo[a]pyrene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
Benzo[b]fluoranthene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
Benzo[g,h,i]perylene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
Benzo[k]fluoranthene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
Bis(2-ethylhexyl) phthalate	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
Butylbenzylphthalate	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
Chrysene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
Dibenz(a,h)anthracene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
Diethylphthalate	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
Dimethylphthalate	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
Di-n-butyl phthalate	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
Di-n-octyl phthalate	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
Fluoranthene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
Fluorene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
Indeno[1,2,3-cd]pyrene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
Naphthalene	ND		2.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
2,2'-oxybis[1-chloropropane]	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
Pentachlorophenol	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
Phenanthrene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1

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QC Sample Results

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 410-828099/1-A

Matrix: Water

Analysis Batch: 828686

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 828099

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		5.00	ug/L		06/02/26 16:04	06/03/26 13:27	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	75		36 - 130			06/02/26 16:04	06/03/26 13:27	1
2-Fluorophenol (Surr)	46		10 - 130			06/02/26 16:04	06/03/26 13:27	1
Nitrobenzene-d5 (Surr)	74		18 - 130			06/02/26 16:04	06/03/26 13:27	1
Phenol-d5 (Surr)	28		10 - 130			06/02/26 16:04	06/03/26 13:27	1
p-Terphenyl-d14 (Surr)	91		11 - 138			06/02/26 16:04	06/03/26 13:27	1
2,4,6-Tribromophenol (Surr)	81		10 - 139			06/02/26 16:04	06/03/26 13:27	1

Lab Sample ID: LCS 410-828099/2-A

Matrix: Water

Analysis Batch: 828686

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 828099

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	50.0	41.97		ug/L		84	47 - 145
Acenaphthylene	50.0	43.61		ug/L		87	33 - 145
Anthracene	50.0	44.54		ug/L		89	27 - 133
Benzo[a]anthracene	50.0	42.03		ug/L		84	33 - 143
Benzo[a]pyrene	50.0	44.47		ug/L		89	17 - 163
Benzo[b]fluoranthene	50.0	42.13		ug/L		84	24 - 159
Benzo[g,h,i]perylene	50.0	45.79		ug/L		92	10 - 219
Benzo[k]fluoranthene	50.0	46.54		ug/L		93	11 - 162
Bis(2-chloroethoxy)methane	50.0	40.33		ug/L		81	33 - 184
Bis(2-chloroethyl)ether	50.0	37.89		ug/L		76	12 - 158
Bis(2-ethylhexyl) phthalate	50.0	47.23		ug/L		94	10 - 158
Butylbenzylphthalate	50.0	39.04		ug/L		78	10 - 152
Chrysene	50.0	45.64		ug/L		91	17 - 168
Dibenz(a,h)anthracene	50.0	42.89		ug/L		86	10 - 227
1,2-Dichlorobenzene	50.0	36.95		ug/L		74	36 - 140
1,3-Dichlorobenzene	50.0	35.66		ug/L		71	35 - 140
1,4-Dichlorobenzene	50.0	35.78		ug/L		72	35 - 140
2,4-Dichlorophenol	50.0	48.26		ug/L		97	39 - 135
Diethylphthalate	50.0	45.10		ug/L		90	10 - 120
Dimethylphthalate	50.0	39.61		ug/L		79	10 - 120
Di-n-butyl phthalate	50.0	49.98		ug/L		100	10 - 120
Di-n-octyl phthalate	50.0	44.29		ug/L		89	10 - 146
Fluoranthene	50.0	51.07		ug/L		102	26 - 137
Fluorene	50.0	43.59		ug/L		87	59 - 121
Hexachlorobenzene	50.0	41.61		ug/L		83	10 - 152
Hexachlorobutadiene	50.0	34.49		ug/L		69	24 - 120
Hexachlorocyclopentadiene	50.0	29.19		ug/L		58	10 - 140
Hexachloroethane	50.0	33.88		ug/L		68	40 - 120
Indeno[1,2,3-cd]pyrene	50.0	30.38		ug/L		61	10 - 171
Naphthalene	50.0	39.58		ug/L		79	21 - 133
2-Nitrophenol	50.0	42.06		ug/L		84	29 - 182
4-Nitrophenol	100	58.00		ug/L		58	10 - 132
2,2'-oxybis[1-chloropropane]	50.0	39.55		ug/L		79	36 - 166

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QC Sample Results

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 410-828099/2-A

Matrix: Water

Analysis Batch: 828686

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 828099

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Pentachlorophenol	100	87.81		ug/L		88	14 - 176
Phenanthrene	50.0	43.71		ug/L		87	54 - 120
Phenol	50.0	21.12		ug/L		42	17 - 120
Pyrene	50.0	40.18		ug/L		80	52 - 120
1,2,4-Trichlorobenzene	50.0	37.53		ug/L		75	44 - 142
2,4,6-Trichlorophenol	50.0	44.09		ug/L		88	37 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	63		36 - 130
2-Fluorophenol (Surr)	48		10 - 130
Nitrobenzene-d5 (Surr)	65		18 - 130
Phenol-d5 (Surr)	33		10 - 130
p-Terphenyl-d14 (Surr)	82		11 - 138
2,4,6-Tribromophenol (Surr)	84		10 - 139

Method: 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 620-68196/1-A

Matrix: Water

Analysis Batch: 68208

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68196

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.200	ug/L		06/01/26 10:31	06/01/26 16:12	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	23		15 - 110			06/01/26 10:31	06/01/26 16:12	1

Lab Sample ID: LCS 620-68196/2-A

Matrix: Water

Analysis Batch: 68208

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 68196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	5.71	6.002		ug/L		105	40 - 140
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8	25		15 - 110				

Lab Sample ID: LCSD 620-68196/3-A

Matrix: Water

Analysis Batch: 68208

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 68196

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	5.71	6.025		ug/L		105	40 - 140	0	30
Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits						
1,4-Dioxane-d8	26		15 - 110						

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QC Sample Results

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 620-67952/1-D

Matrix: Water

Analysis Batch: 68328

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68325

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.400	ug/L		06/02/26 10:10	06/02/26 14:58	1
PCB-1221	ND		0.400	ug/L		06/02/26 10:10	06/02/26 14:58	1
PCB-1232	ND		0.400	ug/L		06/02/26 10:10	06/02/26 14:58	1
PCB-1242	ND		0.400	ug/L		06/02/26 10:10	06/02/26 14:58	1
PCB-1248	ND		0.400	ug/L		06/02/26 10:10	06/02/26 14:58	1
PCB-1254	ND		0.400	ug/L		06/02/26 10:10	06/02/26 14:58	1
PCB-1260	ND		0.400	ug/L		06/02/26 10:10	06/02/26 14:58	1
PCB-1262	ND		0.400	ug/L		06/02/26 10:10	06/02/26 14:58	1
PCB-1268	ND		0.400	ug/L		06/02/26 10:10	06/02/26 14:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	48		30 - 150	06/02/26 10:10	06/02/26 14:58	1
Tetrachloro-m-xylene (Surr)	52		30 - 150	06/02/26 10:10	06/02/26 14:58	1

Lab Sample ID: MB 620-68325/1-A

Matrix: Water

Analysis Batch: 68328

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68325

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.400	ug/L		06/02/26 10:10	06/02/26 12:12	1
PCB-1221	ND		0.400	ug/L		06/02/26 10:10	06/02/26 12:12	1
PCB-1232	ND		0.400	ug/L		06/02/26 10:10	06/02/26 12:12	1
PCB-1242	ND		0.400	ug/L		06/02/26 10:10	06/02/26 12:12	1
PCB-1248	ND		0.400	ug/L		06/02/26 10:10	06/02/26 12:12	1
PCB-1254	ND		0.400	ug/L		06/02/26 10:10	06/02/26 12:12	1
PCB-1260	ND		0.400	ug/L		06/02/26 10:10	06/02/26 12:12	1
PCB-1262	ND		0.400	ug/L		06/02/26 10:10	06/02/26 12:12	1
PCB-1268	ND		0.400	ug/L		06/02/26 10:10	06/02/26 12:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	63		30 - 150	06/02/26 10:10	06/02/26 12:12	1
Tetrachloro-m-xylene (Surr)	53		30 - 150	06/02/26 10:10	06/02/26 12:12	1

Lab Sample ID: LCS 620-68325/2-A

Matrix: Water

Analysis Batch: 68328

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 68325

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	4.00	2.703		ug/L		68	50 - 140
PCB-1260	4.00	2.364		ug/L		59	8 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	60		30 - 150
Tetrachloro-m-xylene (Surr)	55		30 - 150

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QC Sample Results

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCSD 620-68325/3-A

Matrix: Water

Analysis Batch: 68328

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 68325

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	4.00	2.406		ug/L		60	50 - 140	12	36
PCB-1260	4.00	2.357		ug/L		59	8 - 140	0	38
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
DCB Decachlorobiphenyl (Surr)	62		30 - 150						
Tetrachloro-m-xylene (Surr)	49		30 - 150						

Lab Sample ID: 620-38401-1 MS

Matrix: Water

Analysis Batch: 68328

Client Sample ID: LP-GW-1

Prep Type: Total/NA

Prep Batch: 68325

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	ND		4.00	2.211		ug/L		55	50 - 140
PCB-1260	ND		4.00	1.911		ug/L		48	8 - 140
Surrogate	MS %Recovery	MS Qualifier	Limits						
DCB Decachlorobiphenyl (Surr)	47		30 - 150						
Tetrachloro-m-xylene (Surr)	39		30 - 150						

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 410-830956/1-A

Matrix: Water

Analysis Batch: 831115

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 830956

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0200	ug/L		06/07/26 23:05	06/08/26 16:40	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1,1,2,2-Tetrachloroethane (Surr)	99		46 - 136	06/07/26 23:05	06/08/26 16:40	1		
1,1,2,2-Tetrachloroethane (Surr)	95		46 - 136	06/07/26 23:05	06/08/26 16:40	1		

Lab Sample ID: LCS 410-830956/2-A

Matrix: Water

Analysis Batch: 831115

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 830956

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylene Dibromide	0.129	0.09975		ug/L		77	60 - 140
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,1,2,2-Tetrachloroethane (Surr)	89		46 - 136				
1,1,2,2-Tetrachloroethane (Surr)	87		46 - 136				

QC Sample Results

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCSD 410-830956/3-A

Matrix: Water

Analysis Batch: 831115

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 830956

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylene Dibromide	0.129	0.1044		ug/L		81	60 - 140	5	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1,1,2,2-Tetrachloroethane (Surr)	90		46 - 136						
1,1,2,2-Tetrachloroethane (Surr)	88		46 - 136						

Method: EPA 300.0 R2.1 - Anions, Ion Chromatography

Lab Sample ID: MB 410-827880/5

Matrix: Water

Analysis Batch: 827880

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.50	mg/L			06/02/26 10:48	1

Lab Sample ID: LCS 410-827880/3

Matrix: Water

Analysis Batch: 827880

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	3.00	2.890		mg/L		96	90 - 110

Lab Sample ID: LCSD 410-827880/4

Matrix: Water

Analysis Batch: 827880

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3.00	2.892		mg/L		96	90 - 110	0	20

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 410-828229/1-A

Matrix: Water

Analysis Batch: 828783

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 828229

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		0.500	mg/L		06/02/26 21:00	06/03/26 07:44	1
Magnesium	ND		0.200	mg/L		06/02/26 21:00	06/03/26 07:44	1

Lab Sample ID: LCS 410-828229/2-A

Matrix: Water

Analysis Batch: 828783

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 828229

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	5.00	4.915		mg/L		98	85 - 115
Magnesium	5.00	4.871		mg/L		97	85 - 115

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QC Sample Results

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 620-68081/1-A
Matrix: Water
Analysis Batch: 68239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68081

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		2.00	ug/L		05/29/26 13:38	06/01/26 12:47	1
Arsenic	ND		2.00	ug/L		05/29/26 13:38	06/01/26 12:47	1
Cadmium	ND		1.00	ug/L		05/29/26 13:38	06/01/26 12:47	1
Chromium	ND		4.00	ug/L		05/29/26 13:38	06/01/26 12:47	1
Copper	ND		4.00	ug/L		05/29/26 13:38	06/01/26 12:47	1
Lead	ND		2.00	ug/L		05/29/26 13:38	06/01/26 12:47	1
Nickel	ND		2.00	ug/L		05/29/26 13:38	06/01/26 12:47	1
Selenium	ND		4.00	ug/L		05/29/26 13:38	06/01/26 12:47	1
Silver	ND		2.00	ug/L		05/29/26 13:38	06/01/26 12:47	1
Zinc	ND		25.0	ug/L		05/29/26 13:38	06/01/26 12:47	1
Fe	ND		100	ug/L		05/29/26 13:38	06/01/26 12:47	1

Lab Sample ID: LCS 620-68081/2-A
Matrix: Water
Analysis Batch: 68239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68081

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	25.0	26.59		ug/L		106	85 - 115
Arsenic	25.0	24.72		ug/L		99	85 - 115
Cadmium	25.0	26.10		ug/L		104	85 - 115
Chromium	25.0	25.37		ug/L		101	85 - 115
Copper	25.0	25.97		ug/L		104	85 - 115
Lead	25.0	26.24		ug/L		105	85 - 115
Nickel	25.0	25.58		ug/L		102	85 - 115
Selenium	25.0	26.39		ug/L		106	85 - 115
Silver	25.0	22.51		ug/L		90	85 - 115
Zinc	25.0	26.08		ug/L		104	85 - 115
Fe	1250	1273		ug/L		102	-

Lab Sample ID: LCSD 620-68081/3-A
Matrix: Water
Analysis Batch: 68239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68081

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	25.0	26.81		ug/L		107	85 - 115	1	20
Arsenic	25.0	24.63		ug/L		99	85 - 115	0	20
Cadmium	25.0	25.30		ug/L		101	85 - 115	3	20
Chromium	25.0	24.76		ug/L		99	85 - 115	2	20
Copper	25.0	25.43		ug/L		102	85 - 115	2	20
Lead	25.0	25.71		ug/L		103	85 - 115	2	20
Nickel	25.0	25.18		ug/L		101	85 - 115	2	20
Selenium	25.0	26.70		ug/L		107	85 - 115	1	20
Silver	25.0	22.19		ug/L		89	85 - 115	1	20
Zinc	25.0	26.03		ug/L		104	85 - 115	0	20
Fe	1250	1256		ug/L		101	-	1	

QC Sample Results

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 620-68002/5-A
Matrix: Water
Analysis Batch: 68016

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68002

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.000200	mg/L		05/28/26 18:08	05/29/26 00:32	1

Lab Sample ID: LCS 620-68002/6-A
Matrix: Water
Analysis Batch: 68016

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68002

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00500	0.004788		mg/L		96	85 - 115

Lab Sample ID: LCSD 620-68002/7-A
Matrix: Water
Analysis Batch: 68016

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68002

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00500	0.004770		mg/L		95	85 - 115	0	20

Lab Sample ID: 620-38401-1 MS
Matrix: Water
Analysis Batch: 68016

Client Sample ID: LP-GW-1
Prep Type: Total/NA
Prep Batch: 68002

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.00500	0.004720		mg/L		94	80 - 120

Lab Sample ID: 620-38401-1 DU
Matrix: Water
Analysis Batch: 68016

Client Sample ID: LP-GW-1
Prep Type: Total/NA
Prep Batch: 68002

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	ND		ND		mg/L		NC	20

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 620-68261/1-A
Matrix: Water
Analysis Batch: 68380

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68261

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
SGT-HEM	ND		5.0	mg/L		06/01/26 16:02	06/02/26 14:41	1

Lab Sample ID: LCS 620-68261/2-A
Matrix: Water
Analysis Batch: 68380

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68261

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
SGT-HEM	20.0	14.80		mg/L		74	64 - 132

QC Sample Results

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Method: 1664B - HEM and SGT-HEM (Continued)

Lab Sample ID: LCSD 620-68261/3-A
Matrix: Water
Analysis Batch: 68380

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68261

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
SGT-HEM	20.0	14.50		mg/L		73	64 - 132	2	28

Method: 2540D-2015 - Total Suspended Solids (Dried at 103-105°C)

Lab Sample ID: MB 410-827349/1
Matrix: Water
Analysis Batch: 827349

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		3.00	mg/L			06/01/26 15:38	1

Lab Sample ID: LCS 410-827349/2
Matrix: Water
Analysis Batch: 827349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Total Suspended Solids	151	147.3		mg/L		98	89 - 105	

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 460-1111500/17-A
Matrix: Water
Analysis Batch: 1111506

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 1111500

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.00500	mg/L		06/03/26 18:05	06/03/26 20:30	1

Lab Sample ID: LCS 460-1111500/18-A
Matrix: Water
Analysis Batch: 1111506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1111500

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Cyanide, Total	0.100	0.1040		mg/L		104	90 - 110	

Lab Sample ID: MRL 460-1111500/12-A
Matrix: Water
Analysis Batch: 1111506

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 1111500

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits	
Cyanide, Total	0.00500	0.005110		mg/L		102	50 - 150	

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 410-827483/2-A
Matrix: Water
Analysis Batch: 828871

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 827483

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	ND		1.50	mg/L		06/01/26 19:50	06/03/26 11:17	1

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QC Sample Results

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Method: 351.2 - Nitrogen, Total Kjeldahl (Continued)

Lab Sample ID: LCS 410-827483/1-A
Matrix: Water
Analysis Batch: 829059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 827483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	4.20	4.063		mg/L		97	90 - 110

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 620-68246/5
Matrix: Water
Analysis Batch: 68246

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		0.0400	mg/L			05/29/26 20:39	1

Lab Sample ID: LCS 620-68246/6
Matrix: Water
Analysis Batch: 68246

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate Nitrite as N	1.00	1.058		mg/L		106	90 - 110

Method: 420.4 - Phenolics, Total Recoverable

Lab Sample ID: MB 410-828657/15
Matrix: Water
Analysis Batch: 828657

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Phenols, Total	ND		0.0200	mg/L			06/02/26 14:19	1

Lab Sample ID: LCS 410-828657/14
Matrix: Water
Analysis Batch: 828657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Phenols, Total	0.250	0.2524		mg/L		101	90 - 110

Method: 4500 NH3 C-2011 - Ammonia

Lab Sample ID: MB 410-828598/1-A
Matrix: Water
Analysis Batch: 828665

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 828598

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia-N	ND		0.750	mg/L		06/03/26 08:30	06/03/26 10:03	1

Lab Sample ID: LCS 410-828598/2-A
Matrix: Water
Analysis Batch: 828665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 828598

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia-N	10.0	9.321		mg/L		93	90 - 110

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QC Sample Results

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Method: 4500 NH3 C-2011 - Ammonia (Continued)

Lab Sample ID: LCSD 410-828598/3-A

Matrix: Water

Analysis Batch: 828665

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 828598

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia-N	10.0	9.321		mg/L		93	90 - 110	0	10

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 620-67879/11

Matrix: Water

Analysis Batch: 67879

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	ND		0.00600	mg/L			05/27/26 18:56	1

Lab Sample ID: LCS 620-67879/12

Matrix: Water

Analysis Batch: 67879

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	0.0500	0.04500		mg/L		90	90 - 110

Lab Sample ID: 620-38401-1 MS

Matrix: Water

Analysis Batch: 67879

Client Sample ID: LP-GW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	ND	H H3 F1	0.500	0.3300	F1	mg/L		66	80 - 120

Lab Sample ID: 620-38401-1 MSD

Matrix: Water

Analysis Batch: 67879

Client Sample ID: LP-GW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	ND	H H3 F1	0.500	0.3300	F1	mg/L		66	80 - 120	0	20

Lab Sample ID: 620-38401-1 DU

Matrix: Water

Analysis Batch: 67879

Client Sample ID: LP-GW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cr (VI)	ND	H H3 F1	ND		mg/L		NC	20

Method: SM 4500 Cl G - Chlorine, Residual

Lab Sample ID: MB 620-67880/3

Matrix: Water

Analysis Batch: 67880

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorine, Total Residual	ND		0.0600	mg/L			05/27/26 18:59	1

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QC Sample Results

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Method: SM 4500 Cl G - Chlorine, Residual (Continued)

Lab Sample ID: LCS 620-67880/4

Matrix: Water

Analysis Batch: 67880

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorine, Total Residual	0.400	0.4150		mg/L		104	90 - 110

Lab Sample ID: 620-38401-1 MS

Matrix: Water

Analysis Batch: 67880

Client Sample ID: LP-GW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorine, Total Residual	ND	HF F1	4.00	ND	F1	mg/L		0	80 - 120

Lab Sample ID: 620-38401-1 DU

Matrix: Water

Analysis Batch: 67880

Client Sample ID: LP-GW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chlorine, Total Residual	ND	HF F1	ND		mg/L		NC	20

QC Association Summary

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

GC/MS VOA

Analysis Batch: 68021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	624.1	
MB 620-68021/8	Method Blank	Total/NA	Water	624.1	
LCS 620-68021/4	Lab Control Sample	Total/NA	Water	624.1	
LCSD 620-68021/5	Lab Control Sample Dup	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 68196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	3511	
MB 620-68196/1-A	Method Blank	Total/NA	Water	3511	
LCS 620-68196/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 620-68196/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 68208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	8270E SIM ID	68196
MB 620-68196/1-A	Method Blank	Total/NA	Water	8270E SIM ID	68196
LCS 620-68196/2-A	Lab Control Sample	Total/NA	Water	8270E SIM ID	68196
LCSD 620-68196/3-A	Lab Control Sample Dup	Total/NA	Water	8270E SIM ID	68196

Prep Batch: 828099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	625.1	
MB 410-828099/1-A	Method Blank	Total/NA	Water	625.1	
LCS 410-828099/2-A	Lab Control Sample	Total/NA	Water	625.1	

Analysis Batch: 828686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	625.1	828099
MB 410-828099/1-A	Method Blank	Total/NA	Water	625.1	828099
LCS 410-828099/2-A	Lab Control Sample	Total/NA	Water	625.1	828099

GC Semi VOA

Leach Batch: 67952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-67952/1-D	Method Blank	Total/NA	Water	1311	

Prep Batch: 68325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	3510C	
MB 620-67952/1-D	Method Blank	Total/NA	Water	3510C	67952
MB 620-68325/1-A	Method Blank	Total/NA	Water	3510C	
LCS 620-68325/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 620-68325/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
620-38401-1 MS	LP-GW-1	Total/NA	Water	3510C	

Analysis Batch: 68328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	608.3	68325
MB 620-67952/1-D	Method Blank	Total/NA	Water	608.3	68325

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QC Association Summary

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

GC Semi VOA (Continued)

Analysis Batch: 68328 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-68325/1-A	Method Blank	Total/NA	Water	608.3	68325
LCS 620-68325/2-A	Lab Control Sample	Total/NA	Water	608.3	68325
LCSD 620-68325/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	68325
620-38401-1 MS	LP-GW-1	Total/NA	Water	608.3	68325

Prep Batch: 830956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	8011	
MB 410-830956/1-A	Method Blank	Total/NA	Water	8011	
LCS 410-830956/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 410-830956/3-A	Lab Control Sample Dup	Total/NA	Water	8011	

Analysis Batch: 831115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	8011	830956
MB 410-830956/1-A	Method Blank	Total/NA	Water	8011	830956
LCS 410-830956/2-A	Lab Control Sample	Total/NA	Water	8011	830956
LCSD 410-830956/3-A	Lab Control Sample Dup	Total/NA	Water	8011	830956

HPLC/IC

Analysis Batch: 827880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	EPA 300.0 R2.1	
MB 410-827880/5	Method Blank	Total/NA	Water	EPA 300.0 R2.1	
LCS 410-827880/3	Lab Control Sample	Total/NA	Water	EPA 300.0 R2.1	
LCSD 410-827880/4	Lab Control Sample Dup	Total/NA	Water	EPA 300.0 R2.1	

Metals

Prep Batch: 68002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Dissolved	Water	245.1	
620-38401-1	LP-GW-1	Total/NA	Water	245.1	
MB 620-68002/5-A	Method Blank	Total/NA	Water	245.1	
LCS 620-68002/6-A	Lab Control Sample	Total/NA	Water	245.1	
LCSD 620-68002/7-A	Lab Control Sample Dup	Total/NA	Water	245.1	
620-38401-1 MS	LP-GW-1	Total/NA	Water	245.1	
620-38401-1 DU	LP-GW-1	Total/NA	Water	245.1	

Analysis Batch: 68016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Dissolved	Water	245.1	68002
620-38401-1	LP-GW-1	Total/NA	Water	245.1	68002
MB 620-68002/5-A	Method Blank	Total/NA	Water	245.1	68002
LCS 620-68002/6-A	Lab Control Sample	Total/NA	Water	245.1	68002
LCSD 620-68002/7-A	Lab Control Sample Dup	Total/NA	Water	245.1	68002
620-38401-1 MS	LP-GW-1	Total/NA	Water	245.1	68002
620-38401-1 DU	LP-GW-1	Total/NA	Water	245.1	68002

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QC Association Summary

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Metals

Prep Batch: 68081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Dissolved	Water	200.8	
620-38401-1	LP-GW-1	Total/NA	Water	200.8	
MB 620-68081/1-A	Method Blank	Total/NA	Water	200.8	
LCS 620-68081/2-A	Lab Control Sample	Total/NA	Water	200.8	
LCSD 620-68081/3-A	Lab Control Sample Dup	Total/NA	Water	200.8	

Analysis Batch: 68239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-68081/1-A	Method Blank	Total/NA	Water	200.8	68081
LCS 620-68081/2-A	Lab Control Sample	Total/NA	Water	200.8	68081
LCSD 620-68081/3-A	Lab Control Sample Dup	Total/NA	Water	200.8	68081

Analysis Batch: 68281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Dissolved	Water	200.8	68081
620-38401-1	LP-GW-1	Total/NA	Water	200.8	68081

Prep Batch: 828229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	200.7 Rev 4.4	
MB 410-828229/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	
LCS 410-828229/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	

Analysis Batch: 828783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	200.7 Rev 4.4	828229
MB 410-828229/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	828229
LCS 410-828229/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	828229

General Chemistry

Analysis Batch: 67879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	7196A	
MB 620-67879/11	Method Blank	Total/NA	Water	7196A	
LCS 620-67879/12	Lab Control Sample	Total/NA	Water	7196A	
620-38401-1 MS	LP-GW-1	Total/NA	Water	7196A	
620-38401-1 MSD	LP-GW-1	Total/NA	Water	7196A	
620-38401-1 DU	LP-GW-1	Total/NA	Water	7196A	

Analysis Batch: 67880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	SM 4500 Cl G	
MB 620-67880/3	Method Blank	Total/NA	Water	SM 4500 Cl G	
LCS 620-67880/4	Lab Control Sample	Total/NA	Water	SM 4500 Cl G	
620-38401-1 MS	LP-GW-1	Total/NA	Water	SM 4500 Cl G	
620-38401-1 DU	LP-GW-1	Total/NA	Water	SM 4500 Cl G	

Analysis Batch: 68246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	353.2	

Eurofins Rhode Island

QC Association Summary

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

General Chemistry (Continued)

Analysis Batch: 68246 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 620-68246/5	Method Blank	Total/NA	Water	353.2	
LCS 620-68246/6	Lab Control Sample	Total/NA	Water	353.2	

Prep Batch: 68261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	1664B	
MB 620-68261/1-A	Method Blank	Total/NA	Water	1664B	
LCS 620-68261/2-A	Lab Control Sample	Total/NA	Water	1664B	
LCSD 620-68261/3-A	Lab Control Sample Dup	Total/NA	Water	1664B	

Analysis Batch: 68380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	1664B	68261
MB 620-68261/1-A	Method Blank	Total/NA	Water	1664B	68261
LCS 620-68261/2-A	Lab Control Sample	Total/NA	Water	1664B	68261
LCSD 620-68261/3-A	Lab Control Sample Dup	Total/NA	Water	1664B	68261

Analysis Batch: 68416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	7196A	

Analysis Batch: 68552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	Total Nitrogen	

Analysis Batch: 827349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	2540D-2015	
MB 410-827349/1	Method Blank	Total/NA	Water	2540D-2015	
LCS 410-827349/2	Lab Control Sample	Total/NA	Water	2540D-2015	

Prep Batch: 827483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	351.2	
MB 410-827483/2-A	Method Blank	Total/NA	Water	351.2	
LCS 410-827483/1-A	Lab Control Sample	Total/NA	Water	351.2	

Prep Batch: 828598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	4500 NH3 B-2011	
MB 410-828598/1-A	Method Blank	Total/NA	Water	4500 NH3 B-2011	
LCS 410-828598/2-A	Lab Control Sample	Total/NA	Water	4500 NH3 B-2011	
LCSD 410-828598/3-A	Lab Control Sample Dup	Total/NA	Water	4500 NH3 B-2011	

Analysis Batch: 828657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	420.4	
MB 410-828657/15	Method Blank	Total/NA	Water	420.4	

Eurofins Rhode Island

QC Association Summary

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

General Chemistry (Continued)

Analysis Batch: 828657 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-828657/14	Lab Control Sample	Total/NA	Water	420.4	

Analysis Batch: 828665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	4500 NH3 C-2011	828598
MB 410-828598/1-A	Method Blank	Total/NA	Water	4500 NH3 C-2011	828598
LCS 410-828598/2-A	Lab Control Sample	Total/NA	Water	4500 NH3 C-2011	828598
LCSD 410-828598/3-A	Lab Control Sample Dup	Total/NA	Water	4500 NH3 C-2011	828598

Analysis Batch: 828871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	351.2	827483
MB 410-827483/2-A	Method Blank	Total/NA	Water	351.2	827483

Analysis Batch: 829059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-827483/1-A	Lab Control Sample	Total/NA	Water	351.2	827483

Prep Batch: 1111500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	Distill/CN	
MB 460-1111500/17-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 460-1111500/18-A	Lab Control Sample	Total/NA	Water	Distill/CN	
MRL 460-1111500/12-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 1111506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
620-38401-1	LP-GW-1	Total/NA	Water	335.4	1111500
MB 460-1111500/17-A	Method Blank	Total/NA	Water	335.4	1111500
LCS 460-1111500/18-A	Lab Control Sample	Total/NA	Water	335.4	1111500
MRL 460-1111500/12-A	Lab Control Sample	Total/NA	Water	335.4	1111500

Lab Chronicle

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Client Sample ID: LP-GW-1

Lab Sample ID: 620-38401-1

Date Collected: 05/26/26 15:00

Matrix: Water

Date Received: 05/27/26 17:46

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	68021	MED	EET RI	05/29/26 14:15
Total/NA	Prep	625.1			828099	9X9W	ELLE	06/02/26 16:04
Total/NA	Analysis	625.1		1	828686	TV9N	ELLE	06/03/26 19:21
Total/NA	Prep	3511			68196	MFH	EET RI	06/01/26 10:31
Total/NA	Analysis	8270E SIM ID		1	68208	JS	EET RI	06/01/26 16:59
Total/NA	Prep	3510C			68325	NHJ	EET RI	06/02/26 10:10
Total/NA	Analysis	608.3		1	68328	BMH	EET RI	06/02/26 15:48
Total/NA	Prep	8011			830956	USL7	ELLE	06/07/26 23:05
Total/NA	Analysis	8011		1	831115	URS0	ELLE	06/08/26 21:43
Total/NA	Analysis	EPA 300.0 R2.1		10	827880	KJQ8	ELLE	06/02/26 15:36
Total/NA	Prep	200.7 Rev 4.4			828229	UAMX	ELLE	06/02/26 21:00
Total/NA	Analysis	200.7 Rev 4.4		1	828783	WQOE	ELLE	06/03/26 08:30
Dissolved	Prep	200.8			68081	EBQ	EET RI	05/29/26 13:38
Dissolved	Analysis	200.8		1	68281	DJW	EET RI	06/01/26 13:50
Total/NA	Prep	200.8			68081	EBQ	EET RI	05/29/26 13:38
Total/NA	Analysis	200.8		1	68281	DJW	EET RI	06/01/26 13:47
Dissolved	Prep	245.1			68002	DJW	EET RI	05/28/26 18:08
Dissolved	Analysis	245.1		1	68016	BJV	EET RI	05/29/26 00:53
Total/NA	Prep	245.1			68002	DJW	EET RI	05/28/26 18:08
Total/NA	Analysis	245.1		1	68016	BJV	EET RI	05/29/26 00:43
Total/NA	Prep	1664B			68261	AZD	EET RI	06/01/26 16:02
Total/NA	Analysis	1664B		1	68380	AZD	EET RI	06/02/26 14:41
Total/NA	Analysis	2540D-2015		1	827349	UOCA	ELLE	06/01/26 15:38 - 06/02/26 06:10 ¹
Total/NA	Prep	Distill/CN			1111500	VBG	EET EDI	06/03/26 18:05
Total/NA	Analysis	335.4		1	1111506	VBG	EET EDI	06/03/26 21:03
Total/NA	Prep	351.2			827483	WCF5	ELLE	06/01/26 19:50 - 06/01/26 22:50 ¹
Total/NA	Analysis	351.2		1	828871	JCG7	ELLE	06/03/26 11:30
Total/NA	Analysis	353.2		1	68246	JLK	EET RI	05/29/26 20:57
Total/NA	Analysis	420.4		1	828657	NLE3	ELLE	06/02/26 14:39
Total/NA	Prep	4500 NH3 B-2011			828598	UMLG	ELLE	06/03/26 08:30
Total/NA	Analysis	4500 NH3 C-2011		1	828665	UMLG	ELLE	06/03/26 10:03
Total/NA	Analysis	7196A		1	68416	CES	EET RI	06/03/26 08:54
Total/NA	Analysis	7196A		10	67879	JLK	EET RI	05/27/26 18:57
Total/NA	Analysis	SM 4500 Cl G		10	67880	JLK	EET RI	05/27/26 18:59
Total/NA	Analysis	Total Nitrogen		1	68552	EEM	EET RI	06/04/26 09:38

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins Rhode Island

Accreditation/Certification Summary

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Laboratory: Eurofins Rhode Island

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-RI907	06-30-26

The following analytes are included in this report, but the laboratory is not certified by Massachusetts State M-RI907. This list may include analytes for which the agency does not offer certification:

Analysis Method	Prep Method	Matrix	Analyte
1664B	1664B	Water	SGT-HEM
353.2		Water	Nitrate Nitrite as N
608.3	3510C	Water	PCB-1262
608.3	3510C	Water	PCB-1268
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	1,3-Dichloropropene, Total
624.1		Water	Ethanol
624.1		Water	t-Butyl alcohol
624.1		Water	Tert-amyl methyl ether
7196A		Water	Cr
7196A		Water	Cr (III)
7196A		Water	Cr (VI)
8270E SIM ID	3511	Water	1,4-Dioxane
SM 4500 Cl G		Water	Chlorine, Total Residual
Total Nitrogen		Water	Nitrogen, Total

Laboratory: Eurofins Edison

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-NJ312	06-30-27

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Massachusetts	State	M-PA009	06-30-26

The following analytes are included in this report, but the laboratory is not certified by Massachusetts State M-PA009. This list may include analytes for which the agency does not offer certification:

Analysis Method	Prep Method	Matrix	Analyte
8011	8011	Water	Ethylene Dibromide

Method Summary

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET RI
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	ELLE
8270E SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET RI
608.3	Polychlorinated Biphenyls (PCBs) (GC)	EPA	EET RI
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	ELLE
EPA 300.0 R2.1	Anions, Ion Chromatography	EPA	ELLE
200.7 Rev 4.4	Metals (ICP)	EPA	ELLE
200.8	Metals (ICP/MS)	EPA	EET RI
245.1	Mercury (CVAA)	EPA	EET RI
1664B	HEM and SGT-HEM	1664B	EET RI
2540D-2015	Total Suspended Solids (Dried at 103-105°C)	SM	ELLE
335.4	Cyanide, Total	EPA	EET EDI
351.2	Nitrogen, Total Kjeldahl	EPA	ELLE
353.2	Nitrogen, Nitrate-Nitrite	EPA	EET RI
420.4	Phenolics, Total Recoverable	EPA	ELLE
4500 NH3 C-2011	Ammonia	SM	ELLE
7196A	Chromium, Hexavalent	SW846	EET RI
7196A	Chromium, Trivalent (Colorimetric)	SW846	EET RI
SM 4500 Cl G	Chlorine, Residual	SM	EET RI
Total Nitrogen	Nitrogen, Total	EPA	EET RI
1664B	HEM and SGT-HEM (Aqueous)	1664B	EET RI
200.7 Rev 4.4	Preparation, Total Metals	EPA	ELLE
200.8	Preparation, Total Metals	EPA	EET RI
245.1	Preparation, Mercury	EPA	EET RI
351.2	Nitrogen, Total Kjeldahl	EPA	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET RI
3511	Microextraction of Organic Compounds	SW846	EET RI
4500 NH3 B-2011	Ammonia, Distillation	SM	ELLE
625.1	Liquid-Liquid Extraction	40CFR136A	ELLE
8011	Microextraction	SW846	ELLE
Distill/CN	Distillation, Cyanide	None	EET EDI

Protocol References:

1664B = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

EET RI = Eurofins Rhode Island, 646 Camp Ave, North Kingstown, RI 02852, TEL (413)789-9018

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: Horsley Witten Group Inc
Project/Site: Lily Pond

Job ID: 620-38401-1
SDG: 20008

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
620-38401-1	LP-GW-1	Water	05/26/26 15:00	05/27/26 17:46	Massachusetts

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

ESS Laboratory Analytical Balance BAL Laboratory

185 Frances Avenue, Cranston, RI 02910
 Phone: 401-461-7181
 www.esslaboratory.com

Work Order #

Turn Time (Days) ☒ Standard ☐ 4 ☐ 3 ☐ 2 ☐ 1 ☐ Same Day

Regulatory State: MA Criteria: DEGP

☐ CT RCP ☐ MA MCP ☒ RGP ☐ Permit ☐ 401 WQ ☐ Drinking Water

Amount \$ _____ Check # _____

PAYMENT ☐ MC ☐ D ☐ AmEx ☐ Cash

ELECTRONIC DELIVERABLES (Final Reports are PDF) ☐ State Upload ☐ CLP-Like Package

CLIENT INFORMATION

Client: Hershey Water Group
 Address: 90 Route 4A
Sandwich, MA 02563
 Phone: 508-833-6600
 Persons Authorized to Receive: Coryn@hersheywater.com
gnedman@hersheywater.com
 Date: _____

PROJECT INFORMATION

Project Name: Lily Pond
 Project Location: Nantucket, MA
 Project Number: 2008
 Project Manager: Gary Healdman
 Bill to: _____ PO#: _____
 Quote#: _____

Client acknowledges that sampling is compliant with all EPA / State regulatory programs.

Sample Matrix: GW Sample ID: LP-GW-1

Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial
 Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other"
 Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAcAc NaOH 9-NH4Cl 10-DI H2O 11-Other

Shipping Conditions (circle one)

Ice ☐ Ambient ☒ Iced ☐

Cooler Temperature (°C): _____
 Client approval required for temperature >6°C
☐ Approved by Client (Initials/date →)

Relinquished by (Signature) Carole Giv Date 5/27/26

Relinquished by (Signature) _____ Date _____

Sampled by: Carole Giv

Comments: Please meet DEGP parameters
dissolved metals were field filtered

Number of Bottles per Sample: _____

REQUESTED ANALYSES

Requested Analysis	1-4 Discrete	Ammonia, chloride	TRC, cyanide	Hex. Chrom, Th. Chro.	EDB	Phenol	Hardness	PCB	EGP Total Metals	EGP Dissolved Metals	EGP SVOCs	EGP VOCs	TPH	TSS	Total Nitrogen	Phenol
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Total Number of Bottles: _____

620-38401 COC

Chain needs to be filled out neatly and completely for on time delivery.

All samples submitted are subject to ESS Laboratory's payment terms and conditions.

Dissolved Filtration ☐ Laboratory Filter ☐ Field Filter

Received by (Signature) _____ Time _____ Date 5/27/26

Received by (Signature) _____ Time _____ Date _____

2.2 -0.1 2.1°C IRG Ice

6/9/2026

Eurofins Rhode Island Laboratory Sample and Cooler Receipt Checklist

Loc: 620
38401Client: Horsley Witten Grp.TALS Job ID 38401
Date Received: 5/27/26
TAT Requested STDShipped/Delivered Via Carrier1 Air bill manifest present? YES / NO
Air No

2 Were custody seals present? YES / NO

3 Is a Cooler Present? YES / NO

Temp 2.1°C Iced with Ice no
Temp: Iced with
Temp: Iced with
Temp: Iced with
Temp: Iced with

4 Was COC signed and dated by client? YES / NO

5 Does COC match bottles? YES / NO

6 Is COC complete and correct? YES / NO

7 Were samples received intact? YES / NO

8. Were labs informed about short holds & rushes? YES / NO / NA

9 Were any analyses received outside of hold time? YES / NO

11 Any Subcontracting needed? YES / NO

TALS Sample IDs Analysis Ammonia, Cl, TRC, Cyanide
TAT

12. Were VOAs received?

a. Air bubbles in aqueous VOAs?

Does methanol cover soil completely?

YES / NO

YES / NO / NA

YES / NO / NA

EDB, Ethanol, Hardness, TSS, Phenol

13 Are the samples properly preserved? Yes / No

a If metals, unpreserved delivered to the lab Date: Time: By/Acid Lot#: b Low Level VOA vials frozen. Date: Time: By:

Sample Receiving Notes:

14 Was there a need to contact Project Manager? Yes / No

a Was there a need to contact the client? Yes / No

Who was contacted? Date: Time: By:

Resolution:

2nd Review

Were all containers scanned into storage/lab?

Initials

Are barcode labels on correct containers? YES / NO

Are all Flashpoint stickers attached/container ID # circled? YES / NO / NA

Are all Hex Chrome stickers attached? YES / NO / NA

Are all QC stickers attached? YES / NO / NA

Are VOA stickers attached if bubbles noted? YES / NO / NA

Are Composite stickers added if needed? YES / NO / NA

Completed By Date & Time Reviewed By Date & Time

Ver: 03/20/2026

[illegible]

Phone: 413-789-9018 Fax: 413-506-3830

Chain of Custody Record



Environment Testing

[illegible]



Chain of Custody Record

Environmental Test:

[illegible]

Login Sample Receipt Checklist

Client: Horsley Witten Group Inc

Job Number: 620-38401-1

SDG Number: 20008

Login Number: 38401

List Number: 1

Creator: Madison, Ashley L

List Source: Eurofins Rhode Island

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Horsley Witten Group Inc

Job Number: 620-38401-1

SDG Number: 20008

Login Number: 38401

List Number: 3

Creator: Armbruster, Chris

List Source: Eurofins Edison

List Creation: 06/02/26 05:07 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7/1.7, 0.9/0.9, 1.3/1.3°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Horsley Witten Group Inc

Job Number: 620-38401-1

SDG Number: 20008

Login Number: 38401

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 2

List Creation: 05/30/26 07:04 AM

Creator: Onate, Maggie

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temp acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	True	
VOA sample vials do not have headspace $> 6\text{mm}$ in diameter (none, if from WV)?	N/A	

Login Sample Receipt Checklist

Client: Horsley Witten Group Inc

Job Number: 620-38401-1

SDG Number: 20008

Login Number: 38401

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 4

List Creation: 06/02/26 08:48 PM

Creator: Mercado, Max

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	True	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	True	



Town of Nantucket Sewer Department STORMWATER DIVISION

Charles Johnson
Stormwater Manager

81 S. Shore Road – Nantucket, MA 02554
Town Direct 508-228-7200 x7807
cjohnson@nantucket-ma.gov

Memorandum

To: Horsley Witten Group, Inc.

From: Charles Johnson

Date: June 12, 2026

Re: Lily Pond Park Improvements Construction Documents and Dewatering Plan Review

Thank you for providing this office with the Draft Construction Plans for the Lily Pond Park Improvements and the proposed dewatering plan for our preliminary review. I offer these comments in response:

1. The use of on-site storage of dewatered flows is encouraged.
2. Discharge rates of dewatered flows greater than the estimated maximum rate of 1,000 GPM will require notification of this office to assure these flows can be accommodated by the Town's downstream stormwater infrastructure.
3. The use of the proposed Alternate Discharge via Lily Street for the maximum rate of flow to Lily Street and to the Center Street manhole should be using a temporary piped system to order to limit the direct flow onto Town Streets.
4. This office will investigate a possible rerouting of the Alternate Discharge through private properties within temporary easements from the proposed dewatering outlet to the Center Street manhole to possibly replace the overland piping along Lily and Streets.
5. Details of Alternate Routes will be determined at the time of the contractor's application for a Discharge Permit to the Town's Stormwater Collection System and submission of a Dewatering Plan.
6. Details for the Water Quality Units (Hydrodynamic Separators) appear to be acceptable as designed and will be maintained by the Stormwater Division after construction is completed. Please provide drawings of selected units, flow calculations, and maintenance requirements to this office when submitted by the contractor.
7. Please provide loading allowance specifications for all Vacuum Truck maintenance access areas to Water Quality Units (Reinforced Turf, Gravel Parking Areas, and Brick on Concrete Driveway Aprons).

Feel free to contact me should you wish to discuss these comments in more detail.



Memorandum

To: Charles Johnson, Town of Nantucket Stormwater Division
From: Horsley Witten Group, Inc.
Date: June 4, 2026
Re: Lily Pond Park Improvements – Wetland Restoration: Dewatering Plan

Please find the current version of the proposed dewatering plan and technical specifications (Section 31 23 19) that will accompany the bidding documents for the above reference project. The bidding documents require the awarded contractor to file for and obtain a “Connection/Discharge to Stormwater Collection System” permit from the Stormwater Division prior to commencing any dewatering activities.

We’re looking for the Town’s prior review and concurrence with the overall dewatering approach and general Dewatering Plan (Sheet C-5) that will accompany the bidding. This request is with the understanding that the contractor will have to prepare and submit their own plan for both the Town’s approval as well as our approval as the Engineer but applying their means and methods as appropriate to accomplish the construction of the proposed project.

Per our recent discussions, the attached Dewatering Plan indicates two potential dewatering discharge locations including the existing 18-inch VC pipe draining to Center Street and an alternative location along the curb-line of Lily Street allowing for overland flow. This alternative location would only be used with prior Town approval and only likely following a large precipitation event to help accelerate the dewatering. The plan also proposes a maximum allowable total discharge rate of 1,000 gal/min without prior Town and Engineer approval. The maximum allowable discharge rate to Lily Street is proposed at 500 gal/min, this corresponds to maximum flow depth in the gutter line of approx. 2-inches.

We have also calculated the peak elevation ponding limits during a 2.5-inch precipitation event to rise to elevation 4.0 feet following installation of the proposed outlet structures and piping (Outlet Str 100 and DMH 100), which is roughly the current water elevation below the existing boardwalk during the wetter spring months. Depending on the magnitude and duration of precipitation events, it may take a day or more to dewater an active construction zone on the site to allow work to begin.

Other information is shown on the proposed Dewatering Plan to provide the contractor with the general intent for dewatering and defines specific construction areas to isolate excavation within relatively small areas. Potential turbidity and contaminant treatment methods and locations;

Mr. Charles Johnson

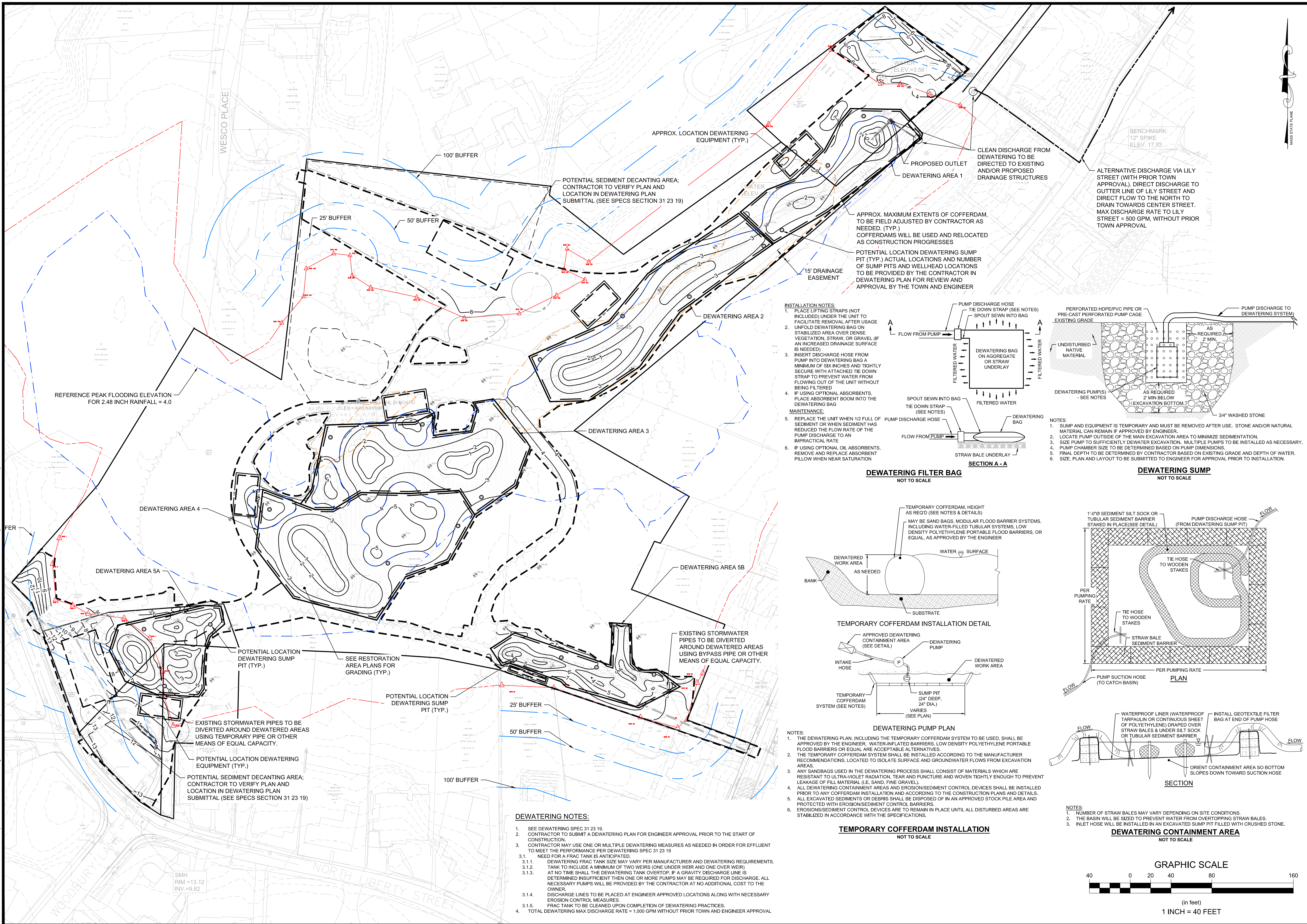
June 4, 202

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potential sump pit/well head locations; and potential coffer dam methods and locations are provided.

Please review the attached and let us know if you have any questions. If you find the overall plan and dewatering approach acceptable, please acknowledge this memorandum in writing (email) so we may include a statement in the bidding that the "Town of Nantucket Stormwater Division has reviewed and generally accepted the dewatering approach." This will facilitate development of the dewatering submittal by the awarded contractor and allow for a more streamlined review of the Connection/Discharge permit by the Town.

Please reach out if you have any questions.

[illegible]