Norwalk River Watershed Association, Inc.

Request for Qualifications
Designs to Restore Stream Continuity, Fish Passage, and
Water Quality along the Norwalk River (CT)

Submission deadline: March 2, 2026

Contact Information: lbwasher@norwalkriver.org, Louise Washer, President Norwalk River Watershed Association

Request Summary:
The Norwalk River Watershed Association, in partnership with the owner of Taylors Pond dam in Ridgefield, CT, requests qualifications for a 100% completed dam removal design including materials and technical reports and completed permitting.

Taylors Pond is a 5.1-acre, shallow impoundment with a 3.5-square mile watershed and the presence of hypoxic conditions. The dam is a 7.5-foot-high, 200-foot-long, earth embankment with concrete and masonry walls and a crest width of 20 feet. The dam is undersized for a 100-year storm, which has resulted in damage to the dam and poses a risk for downstream infrastructure and assets.

Background work: In 2023 the dam owner hired Biohabitats, an ecological restoration consultant, to evaluate Taylors Pond Dam and the impoundment. Biohabitats reviewed existing data and reports to gain an understanding of the condition of the dam. Biohabitats conducted a sediment sampling (depth, quality and quality) and a bathymetric survey in 2024 as well as conceptual designs and cost estimates for dam repair and removal. Testing results, attached below, determined the sediment is clean, having no detected pollutants that exceeded the Residential Direct Exposure Criteria of the Connecticut Remediation Standard Regulation. The dam owner decided to remove the dam.

Removal opens 3 miles of Brook and restores 4.12 acres of wetland. While there are obstructions upstream and downstream, this site represents a key connection between the Great Swamp, the headwaters of Ridgefield Brook, and the rest of the Norwalk River. The upstream town-owned Fox Hill dam at the Great Swamp has also been deemed inadequate and

recommended for removal, which many in the community oppose. This project will serve as a model of the benefits of dam removal.

Removing the dam will open 6 miles of river and improve aquatic and wetland habitat for fish and wildlife species. Conversion of the unshaded, open water impoundment to a vegetated, freshwater marsh will add 4.12 acres of wetland habitat. Within the entrained sediments of the pond is a diverse seed bank of native plant species that will recolonize the former impoundment. Finally, removal of the dam will eliminate long-term risk to downstream infrastructure notably the bridge over the brook at Limestone Road which the community counts on for daily and emergency service crossings.

NRWA and the dam owner share the goal of outcomes that improve water quality in the Norwalk River as well as fish and wildlife habitat at the site. Removal of the dam will improve water quality by reducing temperatures, increasing dissolved oxygen, and reducing downstream loading of nitrogen, phosphorus and other nutrients. Removal of the dam will also allow for natural downstream distribution of both organic and inorganic matter important to maintaining the health of the local benthic communities.

The Norwalk River Watershed Based Plan reports there were 51 dams in the watershed of which 23 were in Ridgefield. Several are privately owned, for recreational or aesthetic purposes, like the Taylors Pond dam. The Plan lists the environmental problems caused by dams and recommends removal where possible. Carrying out the goals of the Watershed Based Plan is part of the mission of the NRWA.

Design priorities: maximizing ecosystem services and ecological benefits from the opening of the river and restoration of 4.12 acres of wetland and engaging and educating the public about those benefits.

Key deliverables: Quality Assurance Project Plan (QAPP) preparation; 100% completed dam removal design including materials and technical reports; completed permitting, including CTDEEP Dam Safety and Army Corps of Engineers permitting; project management and coordination meetings; leadership of at least one site walk and participation in at least one library talk to help educate the public about the benefits of dam removal; a description of strategy and resources for long-term maintenance/monitoring.

Site and Project Background:
The last inspection of Taylors Pond dam, in 2022 by Tata & Howard, describes a 5-acre shallow pond with a 3.5-square-mile watershed; a 7.5-foot-high dam with a 200-foot-long earth,

concrete and stone embankment; and a crest width of about 20 feet. There is an erosion gulley along the toe of the left side. During periods of high flow, water appears to flow over a low area at the left abutment. A 17-foot concrete spillway is near the middle of the embankment. According to the FEMA Flood the spillway is the boundary between Ridgefield Brook and the Norwalk River. The spillway discharges into the upper limit of the Norwalk River which is a natural channel downstream of the embankment. About 370 feet downstream of the dam, the Norwalk River travels below Limestone Road under a bridge that is 12 feet wide by 5.5 feet high.

The existing structure is undersized for target design storms, which has resulted in damage to the dam components and poses a risk for downstream infrastructure and assets. A Hydraulic and Hydrologic Analysis performed in 1987 concluded that the spillway capacity is inadequate to pass the 100-year design flood. There is evidence the embankment has overtopped and caused the erosion gulley along the toe of the left embankment. Design plans were approved in 1987 and 1995 to increase the spillway capacity and reconstruct the embankment. However, these improvements were never made.

Taylors Pond Dam obstructs approximately 3 miles of upstream aquatic habitat and is a barrier to an additional 3 miles downstream. Ridgefield Brook supports a wide range of fish including American eel (Anguilla rostrata), brown trout (Salmo trutta) and cutlip minnow (Exoglossum maxillingua). While there are obstructions upstream and downstream, this point represents a key connection between the 355- acre Great Swamp, which is at headwaters of Ridgefield Brook and the rest of the Norwalk River.

The dam has degraded broader ecological function and value along Ridgefield Brook by disrupting the system's natural hydrology, sediment dynamics, and the ecological communities that depend on these processes. The shallow impoundment has entrained significant sediment, largely in the form of organic matter, that has starved downstream reaches. The shallow impoundment has little to no canopy cover or floating aquatic vegetation, and the majority of Taylors Pond is colonized by filamentous algae. The lack of cover and the presence of filamentous algae is indicative of conditions that allow for excessive heating and reduced oxygen levels to the point of hypoxia. These conditions have implications for the water quality not only of the pond, but also for the Norwalk River downstream.

To fund the project, NRWA has received a Long Island Sound Futures Fund grant and match funding from the dam owner Taylors Pond Corporation. The maximum budget for the scope in this RFQ is $240,000. The primary outcome of the proposed project fits the

the Long Island Sound Comprehensive Conservation and Management Plan for Long Island Sound 2020-2024 (CCMP) category of Thriving Habitats and Abundant Wildlife.

Site constraints: Several residents who own homes around Taylors Pond oppose removal of the dam and have expressed concern that removal will harm the birds and other wildlife that live around the pond and will create an eye-sore and a "smelly wetland." NRWA will lead efforts to use the project to educate the community, conservation commission, and municipal leaders about the benefits of dam removals. The project includes plans for two site walks and two library talks–one of each led by the planning and design firm selected to design the dam removal.

Project Description, Primary Objectives and Project Roles

The Taylors Pond dam project includes NRWA, in partnership with the dam owner, engaging a qualified engineering firm to develop a complete design for dam removal including materials and technical reports; prepare a Quality Assurance Project Plan (QAPP); develop hydrologic and hydraulic model, site plans, and technical documents in support of State and Federal permits; assist NRWA with the preparation of State and Federal permit applications, submittal, and response to regulatory comments, including CTDEEP Dam Safety and Army Corps of Engineers permitting; manage and coordinate project meetings; lead at least one site walk and participate in at least one library talk to help educate the public about the benefits of dam removal.

NRWA will assist in managing the relationships with local and state agencies, but the selected vendor will be responsible for submitting all documents and acquiring any approvals needed. NRWA will lead the planning and managing of public events and outreach to bring attention to the project and use it as an illustration of the benefits of dam removal.

These deliverables will lay the groundwork for the next step, a construction project to remove Taylors Pond Dam, opening this section of Ridgefield Brook for aquatic life and creating the conditions for improved water quality and the return of natural wetlands at the site. The project will prioritize maximizing ecosystem services and ecological benefits from the opening of the river and restoration of 4.12 acres of wetland and engaging and educating the public about those benefits.

Tasks and Deliverables

Phase 1 - Project Management /Meetings and QAPP

Task 1.1 - Project Meetings

Deliverables

- Host monthly virtual meetings as needed: an initial kickoff meeting (within two weeks of signing contract) and one each month for the duration of the project, 20 months, with NRWA project team and the dam owner.
- Develop a timeline and engagement plan for the project in the initial meeting.

Task 1.2 Quality Assurance Project Plan

Deliverables

- Completed draft of QAPP submitted to NRWA for review.
- Complete revisions requested by the Environmental Protection Agency (EPA) review team until the QAPP is approved. The QAPP must be in compliance with both National Fish and Wildlife Foundation (NFWF) and EPA standards and include all methods of data collection that will be conducted during the study.
- Final approved QAPP

<u>Phase 2 – Pre-Design Services</u>

Task 2.1 – Topographic Survey

Deliverables

- Digital basemap and surface of existing conditions developed from topographic survey data in an AutoCAD platform

Task 2.2 – Wetland Delineation

Deliverables

- Brief wetlands and watercourses report, as required by the local, state and federal regulatory authority.
- Wetland Delineation field data sheets
- Basemap depicting the limits of wetlands and watercourse

<u>Task 2.3 – Cultural Resources Assessment</u>

Deliverables

- Phase 1A Cultural Resource Report

<u>Task 2.4 – Hydrologic and Hydraulic Analysis</u>

Deliverables

- Hydrologic & Hydraulic Existing and Proposed Conditions Report

Phase 3 – Preliminary Design Development

Task 3.1 – Preliminary Design

Deliverables

- Preliminary design drawings at approximately 30% completion, that include the following information:
- Cover sheet with project vicinity map, standard notes, signature blocks and specific contractor notes
- Geometry and existing conditions with regulated wetlands clearly defined
- Plan view showing existing and proposed conditions, proposed construction access areas, staging areas, and the approximate limits of disturbance
- A profile and typical cross-sections

Task 3.2 – Pre-Permitting Meetings & Coordination

Deliverables

- Perform preliminary consultations with state and federal agencies that are regulatorily required and/or may affect the course of permitting.
- Coordinate and facilitate meetings with CTDEEP and the USACE to review the conceptual design and identify regulatory data gaps or modifications needed.
- Consult Ridgefield Conservation Commission, the Inland Wetlands Board, and other agencies as appropriate.

Task 3.3 - Public Site Walk

Deliverables

- Provide materials, planning support and staff for one in-person public site walk explaining the plans for dam removal summer/fall of 2026

Phase 4 – Semi-Final Design Development & Permitting

- Task 4.1 – Permit-Level Design

Deliverables

Preliminary design drawings at 100% completion. Plans should be detailed for necessary approvals, permitting, and fixed bid construction contract purposes. Plans should include the following information:

  - Existing Conditions
  - Site Preparation and Construction Access Plan

- Sediment and Erosion Control Plan
- Proposed Conditions Plan
- Restoration Design Details
- Planting Plan
- Planting Details and Schedule
- A description of strategy and resources for long-term maintenance/monitoring.

Task 4.2 – Permit Applications

Deliverables

- Permit applications to be submitted to CTDEEP and USACE including supporting consultations, reports and design drawings. Permits anticipated include:
  - CT DEEP Dam Safety General Permit (GP-16)
  - USACE General Permit #10 for the State of Connecticut (Aquatic Habitat Restoration)

Task 4.3 – Cost Estimate and Design-Build Contractor Coordination

Deliverables

- Construction cost estimate

Task 4.4 - Public Presentation

Deliverables

- One public library presentation of the completed design and plans for restoration at the end of the project, November 2027. These materials will include visuals that show how the dam removal will occur and visual images for how the plan for restoration of the wetland area.

All final deliverables must be delivered by November 1, 2027

Fee and Fee Structure

This design and permitting project cannot exceed a total cost of $240,000. The engineering firm will provide a fee structure that includes the hourly rate of firm personnel working on the project. The cost for travel, attendance of meetings, and other expenses will be described in the fee structure as well.

Request for Qualifications Proposal Requirements

Proposal Requirements (15 page limit excluding resumes for proposal)

1. Standard Forms

2. Letter of Interest
3. Appropriateness and Quality of Experience: Background and information on why proposer is suited to perform the requirements of the RFP including relevant projects, experience with relevant agencies, and experience working in the particular landscape context.
4. Qualifications of Key Staff: Description of team including roles and resumes.
5. Project Understanding/Approach: This may depend on how much information you provide #3 and #6 above
6. Supplemental Information
7. Submitted by March 2, 2026

Questions will be accepted until February 27, 2026 and answers shared with all interested bidders.

Selection Process/Criteria
In consultation with the dam owner, the Norwalk River Watershed Association will be responsible for reviewing all of the proposals received and will make assessments of consulting firms based on:

- Firm's history and background
- Relevant previous experience related to this project
- Lead consultant/team's qualifications and experience designing dam removals
- Quality of references from previous clients

Based on the review of proposals, the project team may request to interview select engineering firms or may seek additional clarifying information of the materials provided. After all interviews/presentations, NRWA will make a final selection.

Submit proposals to Louise Washer, LWasher@norwalkriver.org.

Biohabitats
NORTHEAST HIGHLANDS & COASTAL BIOREGION

363 Main Street, Suite 506
Middletown, CT 06457
860.968.2738

July 26, 2024

Mr. Steve Zemo
Taylors Pond Corporation
109 Danbury Road
Ridgefield, CT 06877
Via. Email: steve@ridgefieldapartments.com

RE: Taylors Pond Dam
Biohabitats Project No. 24201.01

Subject: Pre-Design Data Collection Services
Sediment Sampling and Analysis

Dear Mr. Zemo:

Biohabitats is pleased to provide you with this summary of sediment assessment, sampling, and analysis for the management of Taylors Pond Dam (CT Dam No. 11813) in Ridgefield, Connecticut (41.31666° N, 73.49072° W). The intent of these services is to assist in determining what course of action would be most beneficial for the management of the dam.

On June 17, 2024, the Biohabitats conducted a sediment assessment and sampling field effort. The reservoir was accessed by boat and water depth, sediment depths (thickness) were recorded, and sediment samples were collected. Water depts were measured using vessel-mounted sonar as well as manual soundings. Sediment depths were measured using a driven steel rod until a distinct change in texture or refusal was detected.

Biohabitats collected sediment samples to evaluate the chemical quality and physical characteristics. Sediment samples were collected from three (3) locations within the vicinity of the dam: downstream of the impoundment (TPSD-03) and within the impoundment (TPSD-01, TPSD-02). (Attachment 1) The two samples from the impoundment were collected in the vicinity of the two tributary streams to Taylors Pond in areas of sediment deposition and accumulation. The downstream channel at this location is dominated by stones, sand and gravel, however, the sample downstream sample was collected from shore from a small impoundment located approximately 500 feet downstream of the site. Sediment in this impoundment was homogonous with a texture gravel, sand and fines.

Surface grab samples were collected and a sample for volatile organic compounds (VOC) was collected immediately from the undisturbed sediment. The remaining sediment was then homogenized and distributed to laboratory-provided glassware, labeled, and placed on ice. All sampling tools were decontaminated between sampling locations using non-phosphate detergent, acetone, and distilled water to prevent cross-contamination. The samples were transported to Phoenix Environmental Laboratory for analysis.

All samples were analyzed for the following parameters:

- Metals: Mass-Based Analysis (EPA Methods 3050, 6000, 7000, and 471)
    - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium (total), Lead, Mercury, Nickle, Selenium, Silver, Thallium, Vanadium, and Zinc
    - Hexavalent Chromium (EPA Method 7196)
- Cyanide (EPA Method 9014)
- Volatile Organic Compounds (VOCs) (EPA Method 8260)
- Semi-Volatile Organic Compounds (SVOCs) (polyaromatic hydrocarbons (PAHs), plus carbazole) (EPA method 8270B)
- Total Petroleum Hydrocarbons (EPA Method 8015B)
- Polychlorinated biphenyls (PCBs) (EPA Method 8082)
- Organochlorine Pesticides (including dieldrin, and DDT and metabolites) (EPA Method 8081)
- Chlorinated Herbicides (EPA Method 8151)
- Total Organic Carbon (EPA Method 9060A)
- Grain Size (ASTM D41/D42)
- Moisture Content (ASTM D2216)

Laboratory detection limits and results were compared against the following standards:

- Residential Direct Exposure Criteria (ResDEC) from the Connecticut Remediation Standards Regulations (RSRs)
- Ecological Freshwater Screening Benchmarks from the USEPA
- NOAA Screening Quick Reference Tables (SQuiRTs) for protection of ecological receptors. NOAA SQuiRTs included Probable and Threshold Effect Concentration (PEC & TEC) for organisms in freshwater sediment

Sediment Quantity Results

The water depths in Taylors Pond were very shallow, so much so that use of a vessel mounted sonar produced readings of such variability that they were disregarded in favor of manual soundings. The average depth of water in the impoundment was measured at 2.51 feet with the deepest area located in the northern half. The average sediment depth in the pond was 4.05 feet with a range of depths between 1.50 and 8.70 feet.

Sediment Quality Results

Grain size analysis of the three sample locations indicates that the impoundment sediments consist of a mixture of fines and some sand. In contrast, the downstream sample consists of sand, gravel and fines. The highest organic carbon content was found in Taylors Pond, which is consistent with the reduced energy of water flowing into and through the impoundment.

Analytical Results of sediment samples indicated that samples collected from Taylors Pond are clean. Specifically, analytical results yielded no exceedances of the ResDEC. One compound, benzo(b)fluoranthene, was detected in the downstream sample and nominally exceeded its ResDEC. Compounds like benzo(b)fluoranthene are in the class of compounds of polyaromatic hydrocarbons, which are products of combustion and often associated with road runoff (e.g., from Limestone Road) when no point discharge sources are present. Regardless, benzo(b)fluoranthene was not detected in Taylors Pond and does not affect the management recommendations.

Attachment 2 provides a summary of the detected parameters and identifies those that have exceeded one or more of the above reference criteria. The complete laboratory report is included in Attachment 3.

Discussion

Sediment quality results indicate that any material to be managed can be done so without substantial handling requirements or restrictions. Typically, in dam removal projects any dredged sediment would be managed and stabilized on site. This would be the recommendation should dam removal be the selected management option for the site. It is important to point out that natural redistribution of sediment may be proposed should further design be pursued. Concentrations of many of the analytes were reported below the reporting/detection limit but above ecological screening criteria. Therefore, any consideration of natural redistribution needs to consider the potential effects of sediment of ecological receptors (e.g., benthic invertebrates, fish).

Updated Cost Estimate

Biohabitats prepared order magnitude cost estimates in January 2024, which we have reviewed and revised in light of the current contract and the results sediment quantity and quality measurements (Attachment 4). Biohabitats updated the cost estimates for both dam repair and removal. The greatest impact of the additional data is seen in construction. Because sediment in Taylors Pond does not exceed the ResDEC and, consequently, may be managed on site handling and disposal costs are substantially reduced. Biohabitats now estimates that the cost of repair would be approximately $982,500 while the cost of dam removal would be $866,100. This is a reduction of $5,700 and $36,500, respectively.

Funding Opportunities

Over the last several months Biohabitats has spoken with stakeholders in the overall Norwalk River Watershed. These stakeholders include the Norwalk River Watershed Association, Save the Sound, Trout Unlimited – Mianus Chapter. Based on conversations there ongoing in pursuing dam removal

throughout the watershed and interest specifically in removal of Taylors Pond dam as well as dam immediately downstream. However, part of this process is landowner engagement and buy-in.

Opportunities for future funding through regular programs are provided below with the approximate timeframe in which applications for funding would need to be submitted:

- National Fish & Wildlife Foundation Long Island Sound Future Fund – Spring 2025
- National Fish & Wildlife Foundation Five Star and Urban Waters Restoration Program – Winter 2024/25
- National Fish & Wildlife Foundation Northeast Forests and Rivers Fund – Summer 2025
- Connecticut In-Lieu Fee Fund – Winter 2024/25

Additional, funding sources may also come from other sources including Connecticut Department of Energy and Environmental Protection, U.S. Fish and Wildlife Service, National Oceanic and Atmospheric Administration, and U.S. Department of Agriculture. These agencies advertise and disperse funding based on specific legislative or executive programs. Biohabitats continues to keep abreast of existing and upcoming regional and national funding opportunities that benefit ecological restoration project. We will continue to do so and keep you informed accordingly.

Should you have any questions about this assessment or the associate estimated costs, please do not hesitate to contact me directly.

Sincerely,

Biohabitats, Inc.
Josh Wilson, Sr. Ecologist | Project Manager

Enclosures:

Attachment 1 – Site Location & Sampling Map

Attachment 2 – Sediment Sampling Analysis Results

Attachment 3 – Phoenix Environmental Laboratory Analytical Results

Attachment 4 – Order of Magnitude Cost Estimates

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NORTHEAST HIGHLANDS & COASTAL BIOREGION
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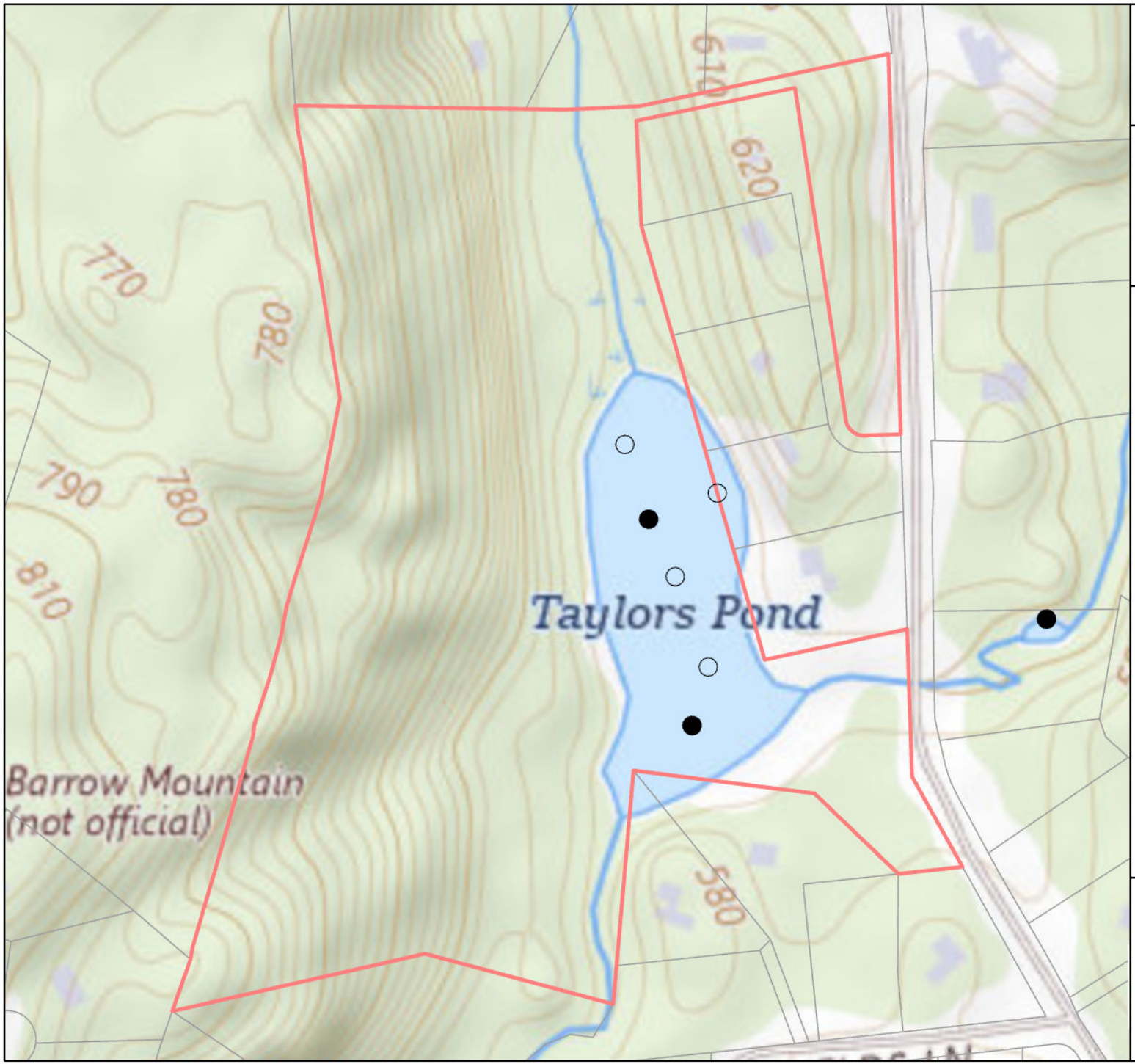
ATTACHMENT 1 – Site Location & Sampling Map



Taylors Pond Dam
Sediment Assessment & Analysis
Ridgefield, Connecticut

Attachment 1
Site Location & Sampling Map

Legend

Sample Locations
- Sediment Depth Only
- Sediment Depth & Analysis
- Site Boundary
- Parcel Boundary

0 200 400 Feet
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Biohabitats

July 2024

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ATTACHMENT 2 – Sediment Sampling Analysis Results

Attachement 2 - Sediment Sampling Analysis Results

Taylors Pond Dam

Ridgefield, CT

	Lab Sample Id				CQ97179		CQ97180		CQ97181	
	Collection Date				6/17/2024		6/17/2024		6/17/2024	
	Client Id				TPSD-01		TPSD-02		TPSD-03	
	Matrix				Sediment		Sediment		Sediment	
	CAS	Units	DEC RES	DEC RES APS	Result	RL	Result	RL	Result	RL
Miscellaneous/Inorganics										
Percent Solid	PHNX - PCTSOLID	%			8.23	0.05	30.9	0.05	30.4	0.05
Total Solids @ 104C	PHNX - TOTSOLIDS	%			8.23	0.1	30.9	0.1	30.4	0.1
pH at 25C - Soil	PHNX - PH	pH Units			6.94	1.00	7.18	1.00	7.07	1.00
pH	PHNX - PH	pH Units								
Tot.Org.Carbon	PHNX - TOC	mg/kg			101,000	100	45,300	100	49,200	100
Metals, Total										
Antimony	7440-36-0	mg/Kg	27		< 27	27	< 11	11	< 10	10
Arsenic	7440-38-2	mg/Kg	10		< 7.1	7.1	< 2.2	2.2	2.1	2.0
Beryllium	7440-41-7	mg/Kg	2		< 2.0	2.0	< 0.87	0.87	< 0.80	0.80
Cadmium	7440-43-9	mg/Kg	34		< 3.6	3.6	< 1.1	1.1	< 1.0	1.0
Chromium	7440-47-3	mg/Kg			41.1	3.6	15.3	1.1	10.4	1.0
Copper	7440-50-8	mg/kg	2,500		168	7.1	50.5	2.2	20.4	2.0
Lead	7439-92-1	mg/Kg	400		104	3.6	25	1.1	16.9	1.0
Mercury	7439-97-6	mg/Kg	20		< 0.28	0.28	0.09	0.08	< 0.08	0.08
Nickel	7440-02-0	mg/Kg	1,400		29.7	3.6	10.1	1.1	8	1.0
Selenium	7782-49-2	mg/Kg	340		< 14	14	< 4.4	4.4	< 4.0	4.0
Silver	7440-22-4	mg/Kg	340		< 3.6	3.6	< 1.1	1.1	< 1.0	1.0
Thallium	7440-28-0	mg/Kg	5.4		< 5.0	5.0	< 5.0	5.0	< 5.0	5.0
Zinc	7440-66-6	mg/Kg	20,000		431	7.1	105	2.2	85.1	2.0
PCBs By SW8082A										
PCB-1016	12674-11-2	ug/Kg	1,000		< 1000	1,000	< 620	620	< 620	620
PCB-1221	11104-28-2	ug/Kg	1,000		< 1000	1,000	< 620	620	< 620	620
PCB-1232	11141-16-5	ug/Kg	1,000		< 1000	1,000	< 620	620	< 620	620
PCB-1242	53469-21-9	ug/Kg	1,000		< 1000	1,000	< 620	620	< 620	620
PCB-1248	12672-29-6	ug/Kg	1,000		< 1000	1,000	< 620	620	< 620	620
PCB-1254	11097-69-1	ug/Kg	1,000		< 1000	1,000	< 620	620	< 620	620
PCB-1260	11096-82-5	ug/Kg	1,000		< 1000	1,000	< 620	620	< 620	620
PCB-1262	37324-23-5	ug/Kg	1,000		< 1000	1,000	< 620	620	< 620	620
PCB-1268	11100-14-4	ug/Kg	1,000		< 1000	1,000	< 620	620	< 620	620
Volatiles By SW8260D										

Attachement 2 - Sediment Sampling Analysis Results

Taylors Pond Dam

Ridgefield, CT

	Lab Sample Id				CQ97179		CQ97180		CQ97181	
	Collection Date				6/17/2024		6/17/2024		6/17/2024	
	Client Id				TPSD-01		TPSD-02		TPSD-03	
	Matrix				Sediment		Sediment		Sediment	
	CAS	Units	DEC RES	DEC RES APS	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane	630-20-6	ug/Kg	24,000		< 77	77	< 12	12	< 11	11
1,1,1-Trichloroethane	71-55-6	ug/Kg	500,000		< 77	77	< 12	12	< 11	11
1,1,2,2-Tetrachloroethane	79-34-5	ug/Kg	3,100		< 46	46	< 7.2	7.2	< 6.6	6.6
1,1,2-Trichloroethane	79-00-5	ug/Kg	11,000		< 77	77	< 12	12	< 11	11
1,1-Dichloroethane	75-34-3	ug/Kg	500,000		< 77	77	< 12	12	< 11	11
1,1-Dichloroethene	75-35-4	ug/Kg	1,000		< 77	77	< 12	12	< 11	11
1,1-Dichloropropene	563-58-6	ug/Kg			< 77	77	< 12	12	< 11	11
1,2,3-Trichlorobenzene	87-61-6	ug/Kg			< 77	77	< 12	12	< 11	11
1,2,3-Trichloropropane	96-18-4	ug/Kg			< 77	77	< 12	12	< 11	11
1,2,4-Trichlorobenzene	120-82-1	ug/Kg		21,000	< 77	77	< 12	12	< 11	11
1,2,4-Trimethylbenzene	95-63-6	ug/Kg		500,000	< 77	77	< 12	12	< 11	11
1,2-Dibromo-3-chloropropane	96-12-8	ug/Kg		90	< 77	77	< 12	12	< 11	11
1,2-Dibromoethane	106-93-4	ug/Kg	7		< 7	7	< 1.2	1.2	< 1.1	1.1
1,2-Dichlorobenzene	95-50-1	ug/Kg	500,000		< 77	77	< 12	12	< 11	11
1,2-Dichloroethane	107-06-2	ug/Kg	6,700		< 77	77	< 12	12	< 11	11
1,2-Dichloropropane	78-87-5	ug/Kg	9,000		< 77	77	< 12	12	< 11	11
1,3,5-Trimethylbenzene	108-67-8	ug/Kg		500,000	< 77	77	< 12	12	< 11	11
1,3-Dichlorobenzene	541-73-1	ug/Kg	500,000		< 77	77	< 12	12	< 11	11
1,3-Dichloropropane	142-28-9	ug/Kg			< 77	77	< 12	12	< 11	11
1,4-Dichlorobenzene	106-46-7	ug/Kg	26,000		< 77	77	< 12	12	< 11	11
2,2-Dichloropropane	594-20-7	ug/Kg			< 77	77	< 12	12	< 11	11
2-Chlorotoluene	95-49-8	ug/Kg		500,000	< 77	77	< 12	12	< 11	11
2-Hexanone	591-78-6	ug/Kg		340,000	< 390	390	< 60	60	< 55	55
2-Isopropyltoluene	527-84-4	ug/Kg			< 77	77	< 12	12	< 11	11
4-Chlorotoluene	106-43-4	ug/Kg		500,000	< 77	77	< 12	12	< 11	11
4-Methyl-2-pentanone	108-10-1	ug/Kg	500,000		< 390	390	< 60	60	< 55	55
Acetone	67-64-1	ug/Kg	500,000		< 3900	3,900	< 600	600	< 550	550
Acrylonitrile	107-13-1	ug/Kg	1,100		< 77	77	< 12	12	< 11	11
Benzene	71-43-2	ug/Kg	21,000		< 77	77	< 12	12	< 11	11
Bromobenzene	108-86-1	ug/Kg			< 77	77	< 12	12	< 11	11
Bromochloromethane	74-97-5	ug/Kg			< 77	77	< 12	12	< 11	11
Bromodichloromethane	75-27-4	ug/Kg		18,000	< 77	77	< 12	12	< 11	11
Bromoform	75-25-2	ug/Kg	78,000		< 77	77	< 12	12	< 11	11
Bromomethane	74-83-9	ug/Kg		34,000	< 77	77	< 12	12	< 11	11
Carbon Disulfide	75-15-0	ug/Kg		500,000	< 77	77	< 12	12	< 11	11

Attachement 2 - Sediment Sampling Analysis Results

Taylors Pond Dam

Ridgefield, CT

	Lab Sample Id				CQ97179		CQ97180		CQ97181	
	Collection Date				6/17/2024		6/17/2024		6/17/2024	
	Client Id				TPSD-01		TPSD-02		TPSD-03	
	Matrix				Sediment		Sediment		Sediment	
	CAS	Units	DEC RES	DEC RES APS	Result	RL	Result	RL	Result	RL
Carbon tetrachloride	56-23-5	ug/Kg	4,700		< 77	77	< 12	12	< 11	11
Chlorobenzene	108-90-7	ug/Kg	500,000		< 77	77	< 12	12	< 11	11
Chloroethane	75-00-3	ug/Kg		130,000	< 77	77	< 12	12	< 11	11
Chloroform	67-66-3	ug/Kg	100,000		< 77	77	< 12	12	< 11	11
Chloromethane	74-87-3	ug/Kg		180,000	< 77	77	< 12	12	< 11	11
cis-1,2-Dichloroethene	156-59-2	ug/Kg	500,000		< 77	77	< 12	12	< 11	11
cis-1,3-Dichloropropene	10061-01-5	ug/Kg			< 77	77	< 12	12	< 11	11
Dibromochloromethane	124-48-1	ug/Kg	7,300		< 46	46	< 7.2	7.2	< 6.6	6.6
Methyl Ethyl Ketone	78-93-3	ug/Kg	500,000		< 460	460	< 72	72	< 66	66
Methyl t-butyl ether (MTBE)	1634-04-4	ug/Kg	500,000		< 150	150	< 24	24	< 22	22
Methylene chloride	75-09-2	ug/Kg	82,000		< 150	150	< 24	24	< 22	22
n-Propylbenzene	103-65-1	ug/Kg		500,000	< 77	77	< 12	12	< 11	11
o-Xylene	95-47-6	ug/Kg			< 77	77	< 12	12	< 11	11
p-Isopropyltoluene	99-87-6	ug/Kg		500,000	< 77	77	< 12	12	< 11	11
Styrene	100-42-5	ug/Kg	500,000		< 77	77	< 12	12	< 11	11
tert-Butylbenzene	98-06-6	ug/Kg		500,000	< 77	77	< 12	12	< 11	11
Tetrachloroethene	127-18-4	ug/Kg	12,000		< 77	77	< 12	12	< 11	11
Tetrahydrofuran (THF)	109-99-9	ug/Kg		61,000	< 150	150	< 24	24	< 22	22
Toluene	108-88-3	ug/Kg	500,000		< 77	77	< 12	12	< 11	11
Total Xylenes	1330-20-7	ug/Kg	500,000		< 77	77	< 12	12	< 11	11
trans-1,2-Dichloroethene	156-60-5	ug/Kg	500,000		< 77	77	< 12	12	< 11	11
trans-1,3-Dichloropropene	10061-02-6	ug/Kg			< 77	77	< 12	12	< 11	11
trans-1,4-dichloro-2-butene	110-57-6	ug/Kg			< 150	150	< 24	24	< 22	22
Trichloroethene	79-01-6	ug/Kg	56,000		< 77	77	< 12	12	< 11	11
Trichlorofluoromethane	75-69-4	ug/Kg		500,000	< 77	77	< 12	12	< 11	11
Trichlorotrifluoroethane	76-13-1	ug/Kg		500,000	< 150	150	< 24	24	< 22	22
Vinyl chloride	75-01-4	ug/Kg	320		< 77	77	< 12	12	< 11	11
Dibromomethane	74-95-3	ug/Kg			< 77	77	< 12	12	< 11	11
Dichlorodifluoromethane	75-71-8	ug/Kg		500,000	< 77	77	< 12	12	< 11	11
Ethylbenzene	100-41-4	ug/Kg	500,000		< 77	77	< 12	12	< 11	11
Hexachlorobutadiene	87-68-3	ug/Kg		130,000	< 77	77	< 12	12	< 11	11
Isopropylbenzene	98-82-8	ug/Kg		500,000	< 77	77	< 12	12	< 11	11
m&p-Xylene	179601-23-1	ug/Kg			< 77	77	< 12	12	< 11	11
Naphthalene	91-20-3	ug/Kg	1,000,000		< 77	77	< 12	12	< 11	11
n-Butylbenzene	104-51-8	ug/Kg		500,000	< 77	77	< 12	12	< 11	11

Attachement 2 - Sediment Sampling Analysis Results

Taylors Pond Dam

Ridgefield, CT

	Lab Sample Id				CQ97179		CQ97180		CQ97181	
	Collection Date				6/17/2024		6/17/2024		6/17/2024	
	Client Id				TPSD-01		TPSD-02		TPSD-03	
	Matrix				Sediment		Sediment		Sediment	
	CAS	Units	DEC RES	DEC RES APS	Result	RL	Result	RL	Result	RL
sec-Butylbenzene	135-98-8	ug/Kg		500,000	< 77	77	< 12	12	< 11	11
Semivolatiles By SW8270E										
1,2,4,5-Tetrachlorobenzene	95-94-3	ug/Kg		20,000	< 13000	13,000	< 3500	3,500	< 2200	2,200
1,2,4-Trichlorobenzene	120-82-1	ug/Kg		21,000	< 13000	13,000	< 3500	3,500	< 2200	2,200
1,2-Dichlorobenzene	95-50-1	ug/Kg	500,000		< 13000	13,000	< 3500	3,500	< 2200	2,200
1,2-Diphenylhydrazine	122-66-7	ug/Kg		770	< 770	770	< 770	770	< 770	770
1,3-Dichlorobenzene	541-73-1	ug/Kg	500,000		< 13000	13,000	< 3500	3,500	< 2200	2,200
1,4-Dichlorobenzene	106-46-7	ug/Kg	26,000		< 13000	13,000	< 3500	3,500	< 2200	2,200
2,2'-Oxybis(1-Chloropropane)	108-60-1	ug/Kg			< 13000	13,000	< 3500	3,500	< 2200	2,200
2,4,5-Trichlorophenol	95-95-4	ug/Kg		1,000,000	< 13000	13,000	< 3500	3,500	< 2200	2,200
2,4,6-Trichlorophenol	88-06-2	ug/Kg		56,000	< 13000	13,000	< 3500	3,500	< 2200	2,200
2,4-Dichlorophenol	120-83-2	ug/Kg	200,000		< 13000	13,000	< 3500	3,500	< 2200	2,200
2,4-Dimethylphenol	105-67-9	ug/Kg		1,000,000	< 13000	13,000	< 3500	3,500	< 2200	2,200
2,4-Dinitrophenol	51-28-5	ug/Kg		140,000	< 18000	18,000	< 5000	5,000	< 3200	3,200
2,4-Dinitrotoluene	121-14-2	ug/Kg		900	< 900	900	< 900	900	< 900	900
2,6-Dinitrotoluene	606-20-2	ug/Kg		900	< 900	900	< 900	900	< 900	900
2-Chloronaphthalene	91-58-7	ug/Kg		500,000	< 13000	13,000	< 3500	3,500	< 2200	2,200
2-Chlorophenol	95-57-8	ug/Kg	340,000		< 13000	13,000	< 3500	3,500	< 2200	2,200
2-Methylnaphthalene	91-57-6	ug/Kg		270,000	< 13000	13,000	< 3500	3,500	< 2200	2,200
2-Methylphenol (o-cresol)	95-48-7	ug/Kg		1,000,000	< 13000	13,000	< 3500	3,500	< 2200	2,200
2-Nitroaniline	88-74-4	ug/Kg		31,000	< 18000	18,000	< 5000	5,000	< 3200	3,200
2-Nitrophenol	88-75-5	ug/Kg			< 13000	13,000	< 3500	3,500	< 2200	2,200
3&4-Methylphenol (m&p-cresol)	PHNX - M&P CRESOL	ug/Kg			< 18000	18,000	< 5000	5,000	< 3200	3,200
3,3'-Dichlorobenzidine	91-94-1	ug/Kg		1,400	< 1400	1,400	< 1400	1,400	< 1400	1,400
3-Nitroaniline	99-09-2	ug/Kg		31,000	< 18000	18,000	< 5000	5,000	< 3200	3,200
4,6-Dinitro-2-methylphenol	534-52-1	ug/Kg		20,000	< 18000	18,000	< 5000	5,000	< 3200	3,200
4-Bromophenyl phenyl ether	101-55-3	ug/Kg			< 18000	18,000	< 5000	5,000	< 3200	3,200
4-Chloro-3-methylphenol	59-50-7	ug/Kg		1,000,000	< 13000	13,000	< 3500	3,500	< 2200	2,200
4-Chloroaniline	106-47-8	ug/Kg		3,100	< 3100	3,100	< 3100	3,100	< 2200	2,200
4-Chlorophenyl phenyl ether	7005-72-3	ug/Kg			< 13000	13,000	< 3500	3,500	< 2200	2,200
4-Nitroaniline	100-01-6	ug/Kg		31,000	< 29000	29,000	< 7900	7,900	< 5100	5,100
4-Nitrophenol	100-02-7	ug/Kg			< 13000	13,000	< 3500	3,500	< 2200	2,200
Acenaphthene	83-32-9	ug/Kg		1,000,000	< 13000	13,000	< 3500	3,500	< 2200	2,200
Acenaphthylene	208-96-8	ug/Kg	1,000,000		< 13000	13,000	< 3500	3,500	< 2200	2,200

Attachement 2 - Sediment Sampling Analysis Results

Taylors Pond Dam

Ridgefield, CT

	Lab Sample Id				CQ97179		CQ97180		CQ97181	
	Collection Date				6/17/2024		6/17/2024		6/17/2024	
	Client Id				TPSD-01		TPSD-02		TPSD-03	
	Matrix				Sediment		Sediment		Sediment	
	CAS	Units	DEC RES	DEC RES APS	Result	RL	Result	RL	Result	RL
Acetophenone	98-86-2	ug/Kg			< 13000	13,000	< 3500	3,500	< 2200	2,200
Aniline	62-53-3	ug/Kg		110,000	< 18000	18,000	< 5000	5,000	< 3200	3,200
Anthracene	120-12-7	ug/Kg	1,000,000		< 13000	13,000	< 3500	3,500	< 2200	2,200
Benz(a)anthracene	56-55-3	ug/Kg	1,000		< 1000	1,000	< 1000	1,000	< 1000	1,000
Benzidine	92-87-5	ug/Kg		200	< 200	200	< 200	200	< 200	200
Benzo(a)pyrene	50-32-8	ug/Kg	1,000		< 1000	1,000	< 1000	1,000	< 1000	1,000
Benzo(b)fluoranthene	205-99-2	ug/Kg	1,000		< 1000	1,000	< 1000	1,000	1,100	1,000
Benzo(ghi)perylene	191-24-2	ug/Kg		8,400	< 8400	8,400	< 3500	3,500	< 2200	2,200
Benzo(k)fluoranthene	207-08-9	ug/Kg	8,400		< 8400	8,400	< 3500	3,500	< 2200	2,200
Benzoic acid	65-85-0	ug/Kg		1,000,000	< 37000	37,000	< 9900	9,900	< 6300	6,300
Benzyl butyl phthalate	85-68-7	ug/Kg	1,000,000		< 13000	13,000	< 3500	3,500	< 2200	2,200
Bis(2-chloroethoxy)methane	111-91-1	ug/Kg		200,000	< 13000	13,000	< 3500	3,500	< 2200	2,200
Bis(2-chloroethyl)ether	111-44-4	ug/Kg	1,000		< 1000	1,000	< 1000	1,000	< 1000	1,000
Bis(2-ethylhexyl)phthalate	117-81-7	ug/Kg	44,000		< 18000	18,000	< 5000	5,000	< 3200	3,200
Carbazole	86-74-8	ug/Kg		31,000	< 18000	18,000	< 5000	5,000	< 3200	3,200
Chrysene	218-01-9	ug/Kg		84,000	< 13000	13,000	< 3500	3,500	< 2200	2,200
Dibenz(a,h)anthracene	53-70-3	ug/Kg		1,000	< 1000	1,000	< 1000	1,000	< 1000	1,000
Dibenzofuran	132-64-9	ug/Kg		68,000	< 13000	13,000	< 3500	3,500	< 2200	2,200
Diethyl phthalate	84-66-2	ug/Kg		1,000,000	< 13000	13,000	< 3500	3,500	< 2200	2,200
Dimethylphthalate	131-11-3	ug/Kg		1,000,000	< 13000	13,000	< 3500	3,500	< 2200	2,200
Di-n-butylphthalate	84-74-2	ug/Kg	1,000,000		< 18000	18,000	< 5000	5,000	< 3200	3,200
Di-n-octylphthalate	117-84-0	ug/Kg	1,000,000		< 13000	13,000	< 3500	3,500	< 2200	2,200
Fluoranthene	206-44-0	ug/Kg	1,000,000		< 13000	13,000	< 3500	3,500	< 2200	2,200
Fluorene	86-73-7	ug/Kg	1,000,000		< 13000	13,000	< 3500	3,500	< 2200	2,200
Hexachlorobenzene	118-74-1	ug/Kg	1,000		< 1000	1,000	< 1000	1,000	< 1000	1,000
Hexachlorobutadiene	87-68-3	ug/Kg		130,000	< 13000	13,000	< 3500	3,500	< 2200	2,200
Hexachlorocyclopentadiene	77-47-4	ug/Kg		410,000	< 13000	13,000	< 3500	3,500	< 2200	2,200
Hexachloroethane	67-72-1	ug/Kg	44,000		< 13000	13,000	< 3500	3,500	< 2200	2,200
Indeno(1,2,3-cd)pyrene	193-39-5	ug/Kg		1,000	< 1000	1,000	< 1000	1,000	< 1000	1,000
Isophorone	78-59-1	ug/Kg		640,000	< 13000	13,000	< 3500	3,500	< 2200	2,200
Naphthalene	91-20-3	ug/Kg	1,000,000		< 13000	13,000	< 3500	3,500	< 2200	2,200
Nitrobenzene	98-95-3	ug/Kg		4,000	< 4000	4,000	< 3500	3,500	< 2200	2,200
N-Nitrosodimethylamine	62-75-9	ug/Kg		200	< 200	200	< 200	200	< 200	200
N-Nitrosodi-n-propylamine	621-64-7	ug/Kg		200	< 200	200	< 200	200	< 200	200
N-Nitrosodiphenylamine	86-30-6	ug/Kg		130,000	< 18000	18,000	< 5000	5,000	< 3200	3,200

Attachement 2 - Sediment Sampling Analysis Results

Taylors Pond Dam

Ridgefield, CT

	Lab Sample Id				CQ97179		CQ97180		CQ97181	
	Collection Date				6/17/2024		6/17/2024		6/17/2024	
	Client Id				TPSD-01		TPSD-02		TPSD-03	
	Matrix				Sediment		Sediment		Sediment	
	CAS	Units	DEC RES	DEC RES APS	Result	RL	Result	RL	Result	RL
Pentachloronitrobenzene	82-68-8	ug/Kg		68,000	< 18000	18,000	< 5000	5,000	< 3200	3,200
Pentachlorophenol	87-86-5	ug/Kg	5,100		< 5100	5,100	< 5000	5,000	< 3200	3,200
Phenanthrene	85-01-8	ug/Kg	1,000,000		< 13000	13,000	< 3500	3,500	< 2200	2,200
Phenol	108-95-2	ug/Kg	1,000,000		< 13000	13,000	< 3500	3,500	< 2200	2,200
Pyrene	129-00-0	ug/Kg	1,000,000		< 13000	13,000	< 3500	3,500	< 2200	2,200
Pyridine	110-86-1	ug/Kg		20,000	< 18000	18,000	< 5000	5,000	< 3200	3,200
Pesticides By SW8081B										
4,4' -DDD	72-54-8	ug/Kg		1,800	< 230	230	< 62	62	< 62	62
4,4' -DDE	72-55-9	ug/Kg		1,800	< 230	230	< 62	62	< 62	62
4,4' -DDT	50-29-3	ug/Kg		1,800	< 230	230	< 62	62	< 62	62
a-BHC	319-84-6	ug/Kg		340	< 230	230	< 62	62	< 62	62
Alachlor	15972-60-8	ug/Kg	7,700		< 230	230	< 62	62	< 62	62
Aldrin	309-00-2	ug/Kg		40	< 40	40	< 31	31	< 31	31
b-BHC	319-85-7	ug/Kg		340	< 230	230	< 62	62	< 62	62
Chlordane	57-74-9	ug/Kg	490	490	< 470	470	< 310	310	< 310	310
d-BHC	319-86-8	ug/Kg		340	< 230	230	< 62	62	< 62	62
Dieldrin	60-57-1	ug/Kg	38		< 38	38	< 31	31	< 31	31
Endosulfan I	959-98-8	ug/Kg		41,000	< 230	230	< 62	62	< 62	62
Endosulfan II	33213-65-9	ug/Kg		41,000	< 230	230	< 62	62	< 62	62
Endosulfan sulfate	1031-07-8	ug/Kg		41,000	< 230	230	< 62	62	< 62	62
Endrin	72-20-8	ug/Kg	20,000	20,000	< 230	230	< 62	62	< 62	62
Endrin aldehyde	7421-93-4	ug/Kg		20,000	< 230	230	< 62	62	< 62	62
Endrin ketone	53494-70-5	ug/Kg		20,000	< 230	230	< 62	62	< 62	62
g-BHC	58-89-9	ug/Kg	20,000		< 47	47	< 12	12	< 12	12
Heptachlor	76-44-8	ug/Kg	140		< 120	120	< 62	62	< 62	62
Heptachlor epoxide	1024-57-3	ug/Kg	67		< 67	67	< 62	62	< 62	62
Methoxychlor	72-43-5	ug/Kg	340,000		< 1200	1,200	< 310	310	< 310	310
Toxaphene	8001-35-2	ug/Kg	560		< 550	550	< 550	550	< 550	550
Oxygenates & Dioxane By SW8260D (OXY)										
1,4-Dioxane	123-91-1	ug/Kg		6,100	< 1500	1,500	< 240	240	< 220	220
Diethyl ether	60-29-7	ug/Kg			< 77	77	< 12	12	< 11	11
Ethyl tert-butyl ether	637-92-3	ug/Kg			< 77	77	< 12	12	< 11	11
tert-amyl methyl ether	994-05-8	ug/Kg			< 77	77	< 12	12	< 11	11

Attachement 2 - Sediment Sampling Analysis Results

Taylors Pond Dam

Ridgefield, CT

	Lab Sample Id				CQ97179		CQ97180		CQ97181	
	Collection Date				6/17/2024		6/17/2024		6/17/2024	
	Client Id				TPSD-01		TPSD-02		TPSD-03	
	Matrix				Sediment		Sediment		Sediment	
	CAS	Units	DEC RES	DEC RES APS	Result	RL	Result	RL	Result	RL
Chlorinated Herbicides By SW8151A										
2,4,5-T	93-76-5	ug/Kg			< 1500	1,500	< 400	400	< 410	410
2,4,5-TP (Silvex)	93-72-1	ug/Kg			< 1500	1,500	< 400	400	< 410	410
2,4-D	94-75-7	ug/Kg	680,000		< 3000	3,000	< 800	800	< 810	810
2,4-DB	94-82-6	ug/Kg			< 30000	30,000	< 8000	8,000	< 8100	8,100
Dalapon	75-99-0	ug/Kg			< 1500	1,500	< 400	400	< 410	410
Dicamba	1918-00-9	ug/Kg		500,000	< 1500	1,500	< 400	400	< 410	410
Dichloroprop	120-36-5	ug/Kg		240,000	< 3000	3,000	< 800	800	< 810	810
Dinoseb	88-85-7	ug/Kg			< 3000	3,000	< 800	800	< 810	810
MCPA	94-74-6	ug/Kg			< 450000	450,000	< 120000	120,000	< 120000	120,000
MCPP	7085-19-0	ug/Kg			< 450000	450,000	< 120000	120,000	< 120000	120,000

Result Detected

RL Exceeds Criteria

Result Exceeds Criteria

Biohabitats
NORTHEAST HIGHLANDS & COASTAL BIOREGION

ATTACHMENT 3 – Phoenix Environmental Laboratory Analytical Results

PHOENIX
Environmental Laboratories, Inc.

Thursday, June 27, 2024

Attn: Mr Josh Wilson
Biohabitats
363 Main Street, Suite 506
Middletown CT, 06457

Project ID: **TAYLORS POND DAM**
SDG ID: **GCQ97179**
Sample ID#s: CQ97179 - CQ97184

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

June 27, 2024

SDG I.D.: GCQ97179

Due to the high % moisture of the samples, some of the analytes were evaluated below the lowest calibration standard in order to achieve the requested reporting levels.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

June 27, 2024

SDG I.D.: GCQ97179

Project ID: TAYLORS POND DAM

Client Id	Lab Id	Matrix
TPSD-01	CQ97179	SEDIMENT
TPSD-02	CQ97180	SEDIMENT
TPSD-03	CQ97181	SEDIMENT
EQUIP BLANK	CQ97182	WATER
TRIP BLANK LL	CQ97183	SEDIMENT
TRIP BLANK HL	CQ97184	SEDIMENT

Environmental Laboratories, Inc.
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Analysis Report

June 27, 2024

FOR: Attn: Mr Josh Wilson
Biohabitats
363 Main Street, Suite 506
Middletown CT, 06457

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		06/17/24	11:25
Location Code:	BIOHABITATS	Received by:	B	06/17/24	18:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCQ97179
Phoenix ID: CQ97179

Project ID: TAYLORS POND DAM
Client ID: TPSD-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 3.6	3.6	mg/Kg	1	06/19/24	CPP	SW6010D
Arsenic	< 7.1	7.1	mg/Kg	1	06/19/24	CPP	SW6010D
Beryllium	< 2.0	2.0	mg/Kg	1	06/19/24	CPP	SW6010D
Cadmium	< 3.6	3.6	mg/Kg	1	06/19/24	CPP	SW6010D
Chromium	41.1	3.6	mg/Kg	1	06/19/24	CPP	SW6010D
Copper	168	7.1	mg/kg	1	06/19/24	CPP	SW6010D
Mercury	< 0.28	0.28	mg/Kg	2	06/20/24	AL1	SW7471B
Nickel	29.7	3.6	mg/Kg	1	06/19/24	CPP	SW6010D
Lead	104	3.6	mg/Kg	1	06/19/24	CPP	SW6010D
Antimony	< 27	27	mg/Kg	1	06/19/24	CPP	SW6010D
Selenium	< 14	14	mg/Kg	1	06/19/24	CPP	SW6010D
Thallium	< 5.0	5.0	mg/Kg	1	06/19/24	CPP	SW6010D
Zinc	431	7.1	mg/Kg	1	06/19/24	CPP	SW6010D
Percent Solid	8.23	0.05	%		06/17/24		SW846-%Solid
Total Solids @ 104C	8.23	0.1	%	1	06/17/24	SH/EC	SM2540B-15
pH at 25C - Soil	6.94	1.00	pH Units	1	06/17/24 21:24	MW	SW846 9045D
Tot.Org.Carbon	101000	100	mg/kg	1	06/22/24	BGS	L. Kahn
Field Extraction	Completed				06/17/24		SW5035A
Mercury Digestion	Completed				06/20/24	MQ/MQ	SW7471B
Soil Extraction for Herbicide	Completed				06/19/24	Y/D	SW3546
Soil Extraction for PCB	Completed				06/24/24	H/X	SW3546
Soil Extraction for Pesticide	Completed				06/24/24	H/X	SW3546
Soil Extraction for SVOA	Completed				06/24/24	H/U	SW3546
Total Metals Digest	Completed				06/18/24	J/P	SW3050B
Tot.Org.Carbon Preparation	Completed				06/18/24	LG	
Sieve Test	Completed		%		06/21/24	*	ASTM D6913

Project ID: TAYLORS POND DAM
Client ID: TPSD-01

Phoenix I.D.: CQ97179

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chlorinated Herbicides							
2,4,5-T	ND	1500	ug/Kg	10	06/20/24	PS	SW8151A
2,4,5-TP (Silvex)	ND	1500	ug/Kg	10	06/20/24	PS	SW8151A
2,4-D	ND	3000	ug/Kg	10	06/20/24	PS	SW8151A
2,4-DB	ND	30000	ug/Kg	10	06/20/24	PS	SW8151A
Dalapon	ND	1500	ug/Kg	10	06/20/24	PS	SW8151A
Dicamba	ND	1500	ug/Kg	10	06/20/24	PS	SW8151A
Dichloroprop	ND	3000	ug/Kg	10	06/20/24	PS	SW8151A
Dinoseb	ND	3000	ug/Kg	10	06/20/24	PS	SW8151A
MCPA	ND	450000	ug/Kg	10	06/20/24	PS	SW8151A
MCPP	ND	450000	ug/Kg	10	06/20/24	PS	SW8151A
QA/QC Surrogates							
% DCAA	77		%	10	06/20/24	PS	30 - 150 %
% DCAA (Confirmation)	139		%	10	06/20/24	PS	30 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	1000	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1221	ND	1000	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1232	ND	1000	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1242	ND	1000	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1248	ND	1000	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1254	ND	1000	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1260	ND	1000	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1262	ND	1000	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1268	ND	1000	ug/Kg	2	06/25/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	73		%	2	06/25/24	SC	30 - 150 %
% DCBP (Confirmation)	75		%	2	06/25/24	SC	30 - 150 %
% TCMX	77		%	2	06/25/24	SC	30 - 150 %
% TCMX (Confirmation)	72		%	2	06/25/24	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	230	ug/Kg	2	06/25/24	AW	SW8081B
4,4' -DDE	ND	230	ug/Kg	2	06/25/24	AW	SW8081B
4,4' -DDT	ND	230	ug/Kg	2	06/25/24	AW	SW8081B
a-BHC	ND	230	ug/Kg	2	06/25/24	AW	SW8081B
Alachlor	ND	230	ug/Kg	2	06/25/24	AW	SW8081B
Aldrin	ND	40	ug/Kg	2	06/25/24	AW	SW8081B
b-BHC	ND	230	ug/Kg	2	06/25/24	AW	SW8081B
Chlordane	ND	470	ug/Kg	2	06/25/24	AW	SW8081B
d-BHC	ND	230	ug/Kg	2	06/25/24	AW	SW8081B
Dieldrin	ND	38	ug/Kg	2	06/25/24	AW	SW8081B
Endosulfan I	ND	230	ug/Kg	2	06/25/24	AW	SW8081B
Endosulfan II	ND	230	ug/Kg	2	06/25/24	AW	SW8081B
Endosulfan sulfate	ND	230	ug/Kg	2	06/25/24	AW	SW8081B
Endrin	ND	230	ug/Kg	2	06/25/24	AW	SW8081B
Endrin aldehyde	ND	230	ug/Kg	2	06/25/24	AW	SW8081B
Endrin ketone	ND	230	ug/Kg	2	06/25/24	AW	SW8081B
g-BHC	ND	47	ug/Kg	2	06/25/24	AW	SW8081B

Project ID: TAYLORS POND DAM
Client ID: TPSD-01

Phoenix I.D.: CQ97179

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Heptachlor	ND	120	ug/Kg	2	06/25/24	AW	SW8081B
Heptachlor epoxide	ND	67	ug/Kg	2	06/25/24	AW	SW8081B
Methoxychlor	ND	1200	ug/Kg	2	06/25/24	AW	SW8081B
Toxaphene	ND	550	ug/Kg	2	06/25/24	AW	SW8081B
QA/QC Surrogates							
% DCBP	80		%	2	06/25/24	AW	30 - 150 %
% DCBP (Confirmation)	69		%	2	06/25/24	AW	30 - 150 %
% TCMX	72		%	2	06/25/24	AW	30 - 150 %
% TCMX (Confirmation)	74		%	2	06/25/24	AW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	46	ug/Kg	1	06/20/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
1,1-Dichloroethane	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
1,1-Dichloroethene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
1,1-Dichloropropene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
1,2-Dibromoethane	ND	7	ug/Kg	1	06/20/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
1,2-Dichloroethane	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
1,2-Dichloropropane	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
1,3-Dichloropropane	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
2,2-Dichloropropane	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
2-Chlorotoluene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
2-Hexanone	ND	390	ug/Kg	1	06/20/24	JLI	SW8260D
2-Isopropyltoluene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
4-Chlorotoluene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	390	ug/Kg	1	06/20/24	JLI	SW8260D
Acetone	ND	3900	ug/Kg	1	06/20/24	JLI	SW8260D
Acrylonitrile	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Benzene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Bromobenzene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Bromochloromethane	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Bromodichloromethane	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Bromoform	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Bromomethane	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Carbon Disulfide	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Carbon tetrachloride	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Chlorobenzene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Chloroethane	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Chloroform	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D

Project ID: TAYLORS POND DAM
Client ID: TPSD-01

Phoenix I.D.: CQ97179

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloromethane	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Dibromochloromethane	ND	46	ug/Kg	1	06/20/24	JLI	SW8260D
Dibromomethane	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Dichlorodifluoromethane	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Ethylbenzene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Hexachlorobutadiene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Isopropylbenzene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
m&p-Xylene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	460	ug/Kg	1	06/20/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	150	ug/Kg	1	06/20/24	JLI	SW8260D
Methylene chloride	ND	150	ug/Kg	1	06/20/24	JLI	SW8260D
Naphthalene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
n-Butylbenzene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
n-Propylbenzene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
o-Xylene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
p-Isopropyltoluene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
sec-Butylbenzene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Styrene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
tert-Butylbenzene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Tetrachloroethene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	150	ug/Kg	1	06/20/24	JLI	SW8260D
Toluene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Total Xylenes	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	150	ug/Kg	1	06/20/24	JLI	SW8260D
Trichloroethene	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Trichlorofluoromethane	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	150	ug/Kg	1	06/20/24	JLI	SW8260D
Vinyl chloride	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	06/20/24	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	06/20/24	JLI	70 - 130 %
% Dibromofluoromethane	110		%	1	06/20/24	JLI	70 - 130 %
% Toluene-d8	103		%	1	06/20/24	JLI	70 - 130 %
Oxygenates & Dioxane							
1,4-Dioxane	ND	1500	ug/Kg	1	06/20/24	JLI	SW8260D (OXY)
Diethyl ether	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D (OXY)
Ethyl tert-butyl ether	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D (OXY)
tert-amyl methyl ether	ND	77	ug/Kg	1	06/20/24	JLI	SW8260D (OXY)
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
1,2,4-Trichlorobenzene	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
1,2-Dichlorobenzene	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
1,2-Diphenylhydrazine	ND	770	ug/Kg	1	06/25/24	MR	SW8270E
1,3-Dichlorobenzene	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E

Project ID: TAYLORS POND DAM
Client ID: TPSD-01

Phoenix I.D.: CQ97179

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
2,4,5-Trichlorophenol	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
2,4,6-Trichlorophenol	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
2,4-Dichlorophenol	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
2,4-Dimethylphenol	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
2,4-Dinitrophenol	ND	18000	ug/Kg	1	06/25/24	MR	SW8270E
2,4-Dinitrotoluene	ND	900	ug/Kg	1	06/25/24	MR	SW8270E
2,6-Dinitrotoluene	ND	900	ug/Kg	1	06/25/24	MR	SW8270E
2-Chloronaphthalene	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
2-Chlorophenol	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
2-Methylnaphthalene	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
2-Methylphenol (o-cresol)	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
2-Nitroaniline	ND	18000	ug/Kg	1	06/25/24	MR	SW8270E
2-Nitrophenol	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	18000	ug/Kg	1	06/25/24	MR	SW8270E
3,3'-Dichlorobenzidine	ND	1400	ug/Kg	1	06/25/24	MR	SW8270E
3-Nitroaniline	ND	18000	ug/Kg	1	06/25/24	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	18000	ug/Kg	1	06/25/24	MR	SW8270E
4-Bromophenyl phenyl ether	ND	18000	ug/Kg	1	06/25/24	MR	SW8270E
4-Chloro-3-methylphenol	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
4-Chloroaniline	ND	3100	ug/Kg	1	06/25/24	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
4-Nitroaniline	ND	29000	ug/Kg	1	06/25/24	MR	SW8270E
4-Nitrophenol	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
Acenaphthene	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
Acenaphthylene	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
Acetophenone	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
Aniline	ND	18000	ug/Kg	1	06/25/24	MR	SW8270E
Anthracene	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
Benz(a)anthracene	ND	1000	ug/Kg	1	06/25/24	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	06/25/24	MR	SW8270E
Benzo(a)pyrene	ND	1000	ug/Kg	1	06/25/24	MR	SW8270E
Benzo(b)fluoranthene	ND	1000	ug/Kg	1	06/25/24	MR	SW8270E
Benzo(ghi)perylene	ND	8400	ug/Kg	1	06/25/24	MR	SW8270E
Benzo(k)fluoranthene	ND	8400	ug/Kg	1	06/25/24	MR	SW8270E
Benzoic acid	ND	37000	ug/Kg	1	06/25/24	MR	SW8270E
Benzyl butyl phthalate	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	1000	ug/Kg	1	06/25/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	18000	ug/Kg	1	06/25/24	MR	SW8270E
Carbazole	ND	18000	ug/Kg	1	06/25/24	MR	SW8270E
Chrysene	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	1000	ug/Kg	1	06/25/24	MR	SW8270E
Dibenzofuran	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
Diethyl phthalate	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
Dimethylphthalate	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
Di-n-butylphthalate	ND	18000	ug/Kg	1	06/25/24	MR	SW8270E
Di-n-octylphthalate	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E

Project ID: TAYLORS POND DAM
Client ID: TPSD-01

Phoenix I.D.: CQ97179

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Fluoranthene	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
Fluorene	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
Hexachlorobenzene	ND	1000	ug/Kg	1	06/25/24	MR	SW8270E
Hexachlorobutadiene	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
Hexachloroethane	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	1000	ug/Kg	1	06/25/24	MR	SW8270E
Isophorone	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
Naphthalene	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
Nitrobenzene	ND	4000	ug/Kg	1	06/25/24	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	06/25/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	06/25/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	18000	ug/Kg	1	06/25/24	MR	SW8270E
Pentachloronitrobenzene	ND	18000	ug/Kg	1	06/25/24	MR	SW8270E
Pentachlorophenol	ND	5100	ug/Kg	1	06/25/24	MR	SW8270E
Phenanthrene	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
Phenol	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
Pyrene	ND	13000	ug/Kg	1	06/25/24	MR	SW8270E
Pyridine	ND	18000	ug/Kg	1	06/25/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	75		%	1	06/25/24	MR	30 - 130 %
% 2-Fluorobiphenyl	71		%	1	06/25/24	MR	30 - 130 %
% 2-Fluorophenol	63		%	1	06/25/24	MR	30 - 130 %
% Nitrobenzene-d5	75		%	1	06/25/24	MR	30 - 130 %
% Phenol-d5	66		%	1	06/25/24	MR	30 - 130 %
% Terphenyl-d14	80		%	1	06/25/24	MR	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

* See Attached. Sieve Analysis performed by Tri State Materials Testing Lab, LLC. Accredited by the National Voluntary Laboratory Accreditation Program; NVLAP Lab Code 200010-0.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Due to the high % moisture of the samples, some of the analytes were evaluated below the lowest calibration standard in order to achieve the requested reporting levels.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 27, 2024
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2024

FOR: Attn: Mr Josh Wilson
Biohabitats
363 Main Street, Suite 506
Middletown CT, 06457

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		06/17/24	12:20
Location Code:	BIOHABITATS	Received by:	B	06/17/24	18:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCQ97179
Phoenix ID: CQ97180

Project ID: TAYLORS POND DAM
Client ID: TPSD-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 1.1	1.1	mg/Kg	1	06/19/24	CPP	SW6010D
Arsenic	< 2.2	2.2	mg/Kg	1	06/19/24	CPP	SW6010D
Beryllium	< 0.87	0.87	mg/Kg	1	06/19/24	CPP	SW6010D
Cadmium	< 1.1	1.1	mg/Kg	1	06/19/24	CPP	SW6010D
Chromium	15.3	1.1	mg/Kg	1	06/19/24	CPP	SW6010D
Copper	50.5	2.2	mg/kg	1	06/19/24	CPP	SW6010D
Mercury	0.09	0.08	mg/Kg	2	06/21/24	ZT	SW7471B
Nickel	10.1	1.1	mg/Kg	1	06/19/24	CPP	SW6010D
Lead	25.0	1.1	mg/Kg	1	06/19/24	CPP	SW6010D
Antimony	< 11	11	mg/Kg	1	06/19/24	CPP	SW6010D
Selenium	< 4.4	4.4	mg/Kg	1	06/19/24	CPP	SW6010D
Thallium	< 5.0	5.0	mg/Kg	1	06/19/24	CPP	SW6010D
Zinc	105	2.2	mg/Kg	1	06/19/24	CPP	SW6010D
Percent Solid	30.9	0.05	%		06/17/24		SW846-%Solid
Total Solids @ 104C	30.9	0.1	%	1	06/17/24	SH/EC	SM2540B-15
pH at 25C - Soil	7.18	1.00	pH Units	1	06/17/24 21:24	MW	SW846 9045D
Tot.Org.Carbon	45300	100	mg/kg	1	06/22/24	BGS	L. Kahn
Field Extraction	Completed				06/17/24		SW5035A
Mercury Digestion	Completed				06/21/24	AL/AL	SW7471B
Soil Extraction for Herbicide	Completed				06/19/24	Y/D	SW3546
Soil Extraction for PCB	Completed				06/24/24	H/X	SW3546
Soil Extraction for Pesticide	Completed				06/24/24	H/X	SW3546
Soil Extraction for SVOA	Completed				06/24/24	H/U	SW3546
Total Metals Digest	Completed				06/18/24	J/P	SW3050B
Tot.Org.Carbon Preparation	Completed				06/18/24	LG	
Sieve Test	Completed		%		06/21/24	*	ASTM D6913

Ver 1

Project ID: TAYLORS POND DAM
Client ID: TPSD-02

Phoenix I.D.: CQ97180

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chlorinated Herbicides							
2,4,5-T	ND	400	ug/Kg	10	06/20/24	PS	SW8151A
2,4,5-TP (Silvex)	ND	400	ug/Kg	10	06/20/24	PS	SW8151A
2,4-D	ND	800	ug/Kg	10	06/20/24	PS	SW8151A
2,4-DB	ND	8000	ug/Kg	10	06/20/24	PS	SW8151A
Dalapon	ND	400	ug/Kg	10	06/20/24	PS	SW8151A
Dicamba	ND	400	ug/Kg	10	06/20/24	PS	SW8151A
Dichloroprop	ND	800	ug/Kg	10	06/20/24	PS	SW8151A
Dinoseb	ND	800	ug/Kg	10	06/20/24	PS	SW8151A
MCPA	ND	120000	ug/Kg	10	06/20/24	PS	SW8151A
MCPP	ND	120000	ug/Kg	10	06/20/24	PS	SW8151A
QA/QC Surrogates							
% DCAA	64		%	10	06/20/24	PS	30 - 150 %
% DCAA (Confirmation)	118		%	10	06/20/24	PS	30 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	620	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1221	ND	620	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1232	ND	620	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1242	ND	620	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1248	ND	620	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1254	ND	620	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1260	ND	620	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1262	ND	620	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1268	ND	620	ug/Kg	2	06/25/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	86		%	2	06/25/24	SC	30 - 150 %
% DCBP (Confirmation)	86		%	2	06/25/24	SC	30 - 150 %
% TCMX	74		%	2	06/25/24	SC	30 - 150 %
% TCMX (Confirmation)	81		%	2	06/25/24	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
4,4' -DDE	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
4,4' -DDT	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
a-BHC	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
Alachlor	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
Aldrin	ND	31	ug/Kg	2	06/25/24	AW	SW8081B
b-BHC	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
Chlordane	ND	310	ug/Kg	2	06/25/24	AW	SW8081B
d-BHC	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
Dieldrin	ND	31	ug/Kg	2	06/25/24	AW	SW8081B
Endosulfan I	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
Endosulfan II	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
Endosulfan sulfate	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
Endrin	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
Endrin aldehyde	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
Endrin ketone	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
g-BHC	ND	12	ug/Kg	2	06/25/24	AW	SW8081B

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Heptachlor	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
Heptachlor epoxide	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
Methoxychlor	ND	310	ug/Kg	2	06/25/24	AW	SW8081B
Toxaphene	ND	550	ug/Kg	2	06/25/24	AW	SW8081B
QA/QC Surrogates							
% DCBP	94		%	2	06/25/24	AW	30 - 150 %
% DCBP (Confirmation)	88		%	2	06/25/24	AW	30 - 150 %
% TCMX	81		%	2	06/25/24	AW	30 - 150 %
% TCMX (Confirmation)	72		%	2	06/25/24	AW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	7.2	ug/Kg	1	06/20/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
1,1-Dichloroethane	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
1,1-Dichloroethene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
1,1-Dichloropropene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
1,2-Dibromoethane	ND	1.2	ug/Kg	1	06/20/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
1,2-Dichloroethane	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
1,2-Dichloropropane	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
1,3-Dichloropropane	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
2,2-Dichloropropane	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
2-Chlorotoluene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
2-Hexanone	ND	60	ug/Kg	1	06/20/24	JLI	SW8260D
2-Isopropyltoluene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
4-Chlorotoluene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	60	ug/Kg	1	06/20/24	JLI	SW8260D
Acetone	ND	600	ug/Kg	1	06/20/24	JLI	SW8260D
Acrylonitrile	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Benzene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Bromobenzene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Bromochloromethane	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Bromodichloromethane	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Bromoform	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Bromomethane	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Carbon Disulfide	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Carbon tetrachloride	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Chlorobenzene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Chloroethane	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Chloroform	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D

Project ID: TAYLORS POND DAM
Client ID: TPSD-02

Phoenix I.D.: CQ97180

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloromethane	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Dibromochloromethane	ND	7.2	ug/Kg	1	06/20/24	JLI	SW8260D
Dibromomethane	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Dichlorodifluoromethane	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Ethylbenzene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Hexachlorobutadiene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Isopropylbenzene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
m&p-Xylene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	72	ug/Kg	1	06/20/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	24	ug/Kg	1	06/20/24	JLI	SW8260D
Methylene chloride	ND	24	ug/Kg	1	06/20/24	JLI	SW8260D
Naphthalene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
n-Butylbenzene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
n-Propylbenzene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
o-Xylene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
p-Isopropyltoluene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
sec-Butylbenzene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Styrene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
tert-Butylbenzene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Tetrachloroethene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	24	ug/Kg	1	06/20/24	JLI	SW8260D
Toluene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Total Xylenes	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	24	ug/Kg	1	06/20/24	JLI	SW8260D
Trichloroethene	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Trichlorofluoromethane	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	24	ug/Kg	1	06/20/24	JLI	SW8260D
Vinyl chloride	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	06/20/24	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	06/20/24	JLI	70 - 130 %
% Dibromofluoromethane	112		%	1	06/20/24	JLI	70 - 130 %
% Toluene-d8	101		%	1	06/20/24	JLI	70 - 130 %
Oxygenates & Dioxane							
1,4-Dioxane	ND	240	ug/Kg	1	06/20/24	JLI	SW8260D (OXY)
Diethyl ether	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D (OXY)
Ethyl tert-butyl ether	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D (OXY)
tert-amyl methyl ether	ND	12	ug/Kg	1	06/20/24	JLI	SW8260D (OXY)
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
1,2,4-Trichlorobenzene	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
1,2-Dichlorobenzene	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
1,2-Diphenylhydrazine	ND	770	ug/Kg	1	06/25/24	MR	SW8270E
1,3-Dichlorobenzene	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E

Project ID: TAYLORS POND DAM
Client ID: TPSD-02

Phoenix I.D.: CQ97180

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
2,4,5-Trichlorophenol	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
2,4,6-Trichlorophenol	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
2,4-Dichlorophenol	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
2,4-Dimethylphenol	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
2,4-Dinitrophenol	ND	5000	ug/Kg	1	06/25/24	MR	SW8270E
2,4-Dinitrotoluene	ND	900	ug/Kg	1	06/25/24	MR	SW8270E
2,6-Dinitrotoluene	ND	900	ug/Kg	1	06/25/24	MR	SW8270E
2-Chloronaphthalene	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
2-Chlorophenol	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
2-Methylnaphthalene	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
2-Methylphenol (o-cresol)	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
2-Nitroaniline	ND	5000	ug/Kg	1	06/25/24	MR	SW8270E
2-Nitrophenol	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	5000	ug/Kg	1	06/25/24	MR	SW8270E
3,3'-Dichlorobenzidine	ND	1400	ug/Kg	1	06/25/24	MR	SW8270E
3-Nitroaniline	ND	5000	ug/Kg	1	06/25/24	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	5000	ug/Kg	1	06/25/24	MR	SW8270E
4-Bromophenyl phenyl ether	ND	5000	ug/Kg	1	06/25/24	MR	SW8270E
4-Chloro-3-methylphenol	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
4-Chloroaniline	ND	3100	ug/Kg	1	06/25/24	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
4-Nitroaniline	ND	7900	ug/Kg	1	06/25/24	MR	SW8270E
4-Nitrophenol	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Acenaphthene	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Acenaphthylene	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Acetophenone	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Aniline	ND	5000	ug/Kg	1	06/25/24	MR	SW8270E
Anthracene	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Benz(a)anthracene	ND	1000	ug/Kg	1	06/25/24	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	06/25/24	MR	SW8270E
Benzo(a)pyrene	ND	1000	ug/Kg	1	06/25/24	MR	SW8270E
Benzo(b)fluoranthene	ND	1000	ug/Kg	1	06/25/24	MR	SW8270E
Benzo(ghi)perylene	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Benzo(k)fluoranthene	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Benzoic acid	ND	9900	ug/Kg	1	06/25/24	MR	SW8270E
Benzyl butyl phthalate	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	1000	ug/Kg	1	06/25/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	5000	ug/Kg	1	06/25/24	MR	SW8270E
Carbazole	ND	5000	ug/Kg	1	06/25/24	MR	SW8270E
Chrysene	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	1000	ug/Kg	1	06/25/24	MR	SW8270E
Dibenzofuran	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Diethyl phthalate	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Dimethylphthalate	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Di-n-butylphthalate	ND	5000	ug/Kg	1	06/25/24	MR	SW8270E
Di-n-octylphthalate	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E

Project ID: TAYLORS POND DAM
Client ID: TPSD-02

Phoenix I.D.: CQ97180

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Fluoranthene	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Fluorene	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Hexachlorobenzene	ND	1000	ug/Kg	1	06/25/24	MR	SW8270E
Hexachlorobutadiene	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Hexachloroethane	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	1000	ug/Kg	1	06/25/24	MR	SW8270E
Isophorone	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Naphthalene	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Nitrobenzene	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	06/25/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	06/25/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	5000	ug/Kg	1	06/25/24	MR	SW8270E
Pentachloronitrobenzene	ND	5000	ug/Kg	1	06/25/24	MR	SW8270E
Pentachlorophenol	ND	5000	ug/Kg	1	06/25/24	MR	SW8270E
Phenanthrene	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Phenol	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Pyrene	ND	3500	ug/Kg	1	06/25/24	MR	SW8270E
Pyridine	ND	5000	ug/Kg	1	06/25/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	54		%	1	06/25/24	MR	30 - 130 %
% 2-Fluorobiphenyl	54		%	1	06/25/24	MR	30 - 130 %
% 2-Fluorophenol	47		%	1	06/25/24	MR	30 - 130 %
% Nitrobenzene-d5	56		%	1	06/25/24	MR	30 - 130 %
% Phenol-d5	49		%	1	06/25/24	MR	30 - 130 %
% Terphenyl-d14	59		%	1	06/25/24	MR	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

* See Attached. Sieve Analysis performed by Tri State Materials Testing Lab, LLC. Accredited by the National Voluntary Laboratory Accreditation Program; NVLAP Lab Code 200010-0.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Due to the high % moisture of the samples, some of the analytes were evaluated below the lowest calibration standard in order to achieve the requested reporting levels.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 27, 2024
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2024

FOR: Attn: Mr Josh Wilson
Biohabitats
363 Main Street, Suite 506
Middletown CT, 06457

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		06/17/24	13:10
Location Code:	BIOHABITATS	Received by:	B	06/17/24	18:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCQ97179
Phoenix ID: CQ97181

Project ID: TAYLORS POND DAM
Client ID: TPSD-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 1.0	1.0	mg/Kg	1	06/19/24	CPP	SW6010D
Arsenic	2.1	2.0	mg/Kg	1	06/19/24	CPP	SW6010D
Beryllium	< 0.80	0.80	mg/Kg	1	06/19/24	CPP	SW6010D
Cadmium	< 1.0	1.0	mg/Kg	1	06/19/24	CPP	SW6010D
Chromium	10.4	1.0	mg/Kg	1	06/19/24	CPP	SW6010D
Copper	20.4	2.0	mg/kg	1	06/19/24	CPP	SW6010D
Mercury	< 0.08	0.08	mg/Kg	2	06/21/24	ZT	SW7471B
Nickel	8.0	1.0	mg/Kg	1	06/19/24	CPP	SW6010D
Lead	16.9	1.0	mg/Kg	1	06/19/24	CPP	SW6010D
Antimony	< 10	10	mg/Kg	1	06/19/24	CPP	SW6010D
Selenium	< 4.0	4.0	mg/Kg	1	06/19/24	CPP	SW6010D
Thallium	< 5.0	5.0	mg/Kg	1	06/19/24	CPP	SW6010D
Zinc	85.1	2.0	mg/Kg	1	06/19/24	CPP	SW6010D
Percent Solid	30.4	0.05	%		06/17/24		SW846-%Solid
Total Solids @ 104C	30.4	0.1	%	1	06/17/24	SH/EC	SM2540B-15
pH at 25C - Soil	7.07	1.00	pH Units	1	06/17/24 21:24	MW	SW846 9045D
Tot.Org.Carbon	49200	100	mg/kg	1	06/22/24	BGS	L. Kahn
Field Extraction	Completed				06/17/24		SW5035A
Mercury Digestion	Completed				06/21/24	AL/AL	SW7471B
Soil Extraction for Herbicide	Completed				06/19/24	Y/D	SW3546
Soil Extraction for PCB	Completed				06/24/24	H/X	SW3546
Soil Extraction for Pesticide	Completed				06/24/24	H/X	SW3546
Soil Extraction for SVOA	Completed				06/24/24	H/U	SW3546
Total Metals Digest	Completed				06/18/24	J/P	SW3050B
Tot.Org.Carbon Preparation	Completed				06/18/24	LG	
Sieve Test	Completed		%		06/21/24	*	ASTM D6913

Ver 1

Project ID: TAYLORS POND DAM
Client ID: TPSD-03

Phoenix I.D.: CQ97181

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chlorinated Herbicides							
2,4,5-T	ND	410	ug/Kg	10	06/20/24	PS	SW8151A
2,4,5-TP (Silvex)	ND	410	ug/Kg	10	06/20/24	PS	SW8151A
2,4-D	ND	810	ug/Kg	10	06/20/24	PS	SW8151A
2,4-DB	ND	8100	ug/Kg	10	06/20/24	PS	SW8151A
Dalapon	ND	410	ug/Kg	10	06/20/24	PS	SW8151A
Dicamba	ND	410	ug/Kg	10	06/20/24	PS	SW8151A
Dichloroprop	ND	810	ug/Kg	10	06/20/24	PS	SW8151A
Dinoseb	ND	810	ug/Kg	10	06/20/24	PS	SW8151A
MCPA	ND	120000	ug/Kg	10	06/20/24	PS	SW8151A
MCPP	ND	120000	ug/Kg	10	06/20/24	PS	SW8151A
QA/QC Surrogates							
% DCAA	76		%	10	06/20/24	PS	30 - 150 %
% DCAA (Confirmation)	73		%	10	06/20/24	PS	30 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	620	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1221	ND	620	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1232	ND	620	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1242	ND	620	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1248	ND	620	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1254	ND	620	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1260	ND	620	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1262	ND	620	ug/Kg	2	06/25/24	SC	SW8082A
PCB-1268	ND	620	ug/Kg	2	06/25/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	88		%	2	06/25/24	SC	30 - 150 %
% DCBP (Confirmation)	89		%	2	06/25/24	SC	30 - 150 %
% TCMX	80		%	2	06/25/24	SC	30 - 150 %
% TCMX (Confirmation)	88		%	2	06/25/24	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
4,4' -DDE	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
4,4' -DDT	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
a-BHC	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
Alachlor	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
Aldrin	ND	31	ug/Kg	2	06/25/24	AW	SW8081B
b-BHC	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
Chlordane	ND	310	ug/Kg	2	06/25/24	AW	SW8081B
d-BHC	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
Dieldrin	ND	31	ug/Kg	2	06/25/24	AW	SW8081B
Endosulfan I	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
Endosulfan II	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
Endosulfan sulfate	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
Endrin	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
Endrin aldehyde	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
Endrin ketone	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
g-BHC	ND	12	ug/Kg	2	06/25/24	AW	SW8081B

Project ID: TAYLORS POND DAM
Client ID: TPSD-03

Phoenix I.D.: CQ97181

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Heptachlor	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
Heptachlor epoxide	ND	62	ug/Kg	2	06/25/24	AW	SW8081B
Methoxychlor	ND	310	ug/Kg	2	06/25/24	AW	SW8081B
Toxaphene	ND	550	ug/Kg	2	06/25/24	AW	SW8081B
QA/QC Surrogates							
% DCBP	93		%	2	06/25/24	AW	30 - 150 %
% DCBP (Confirmation)	100		%	2	06/25/24	AW	30 - 150 %
% TCMX	78		%	2	06/25/24	AW	30 - 150 %
% TCMX (Confirmation)	93		%	2	06/25/24	AW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	6.6	ug/Kg	1	06/20/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
1,1-Dichloroethane	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
1,1-Dichloroethene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
1,1-Dichloropropene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
1,2-Dibromoethane	ND	1.1	ug/Kg	1	06/20/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
1,2-Dichloroethane	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
1,2-Dichloropropane	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
1,3-Dichloropropane	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
2,2-Dichloropropane	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
2-Chlorotoluene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
2-Hexanone	ND	55	ug/Kg	1	06/20/24	JLI	SW8260D
2-Isopropyltoluene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
4-Chlorotoluene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	55	ug/Kg	1	06/20/24	JLI	SW8260D
Acetone	ND	550	ug/Kg	1	06/20/24	JLI	SW8260D
Acrylonitrile	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Benzene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Bromobenzene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Bromochloromethane	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Bromodichloromethane	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Bromoform	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Bromomethane	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Carbon Disulfide	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Carbon tetrachloride	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Chlorobenzene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Chloroethane	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Chloroform	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D

Project ID: TAYLORS POND DAM
Client ID: TPSD-03

Phoenix I.D.: CQ97181

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloromethane	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Dibromochloromethane	ND	6.6	ug/Kg	1	06/20/24	JLI	SW8260D
Dibromomethane	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Dichlorodifluoromethane	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Ethylbenzene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Hexachlorobutadiene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Isopropylbenzene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
m&p-Xylene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	66	ug/Kg	1	06/20/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	22	ug/Kg	1	06/20/24	JLI	SW8260D
Methylene chloride	ND	22	ug/Kg	1	06/20/24	JLI	SW8260D
Naphthalene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
n-Butylbenzene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
n-Propylbenzene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
o-Xylene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
p-Isopropyltoluene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
sec-Butylbenzene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Styrene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
tert-Butylbenzene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Tetrachloroethene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	22	ug/Kg	1	06/20/24	JLI	SW8260D
Toluene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Total Xylenes	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	22	ug/Kg	1	06/20/24	JLI	SW8260D
Trichloroethene	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Trichlorofluoromethane	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	22	ug/Kg	1	06/20/24	JLI	SW8260D
Vinyl chloride	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	92		%	1	06/20/24	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	06/20/24	JLI	70 - 130 %
% Dibromofluoromethane	93		%	1	06/20/24	JLI	70 - 130 %
% Toluene-d8	89		%	1	06/20/24	JLI	70 - 130 %
Oxygenates & Dioxane							
1,4-Dioxane	ND	220	ug/Kg	1	06/20/24	JLI	SW8260D (OXY)
Diethyl ether	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D (OXY)
Ethyl tert-butyl ether	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D (OXY)
tert-amyl methyl ether	ND	11	ug/Kg	1	06/20/24	JLI	SW8260D (OXY)
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
1,2,4-Trichlorobenzene	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
1,2-Dichlorobenzene	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
1,2-Diphenylhydrazine	ND	770	ug/Kg	1	06/25/24	MR	SW8270E
1,3-Dichlorobenzene	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E

Project ID: TAYLORS POND DAM
Client ID: TPSD-03

Phoenix I.D.: CQ97181

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
2,4,5-Trichlorophenol	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
2,4,6-Trichlorophenol	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
2,4-Dichlorophenol	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
2,4-Dimethylphenol	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
2,4-Dinitrophenol	ND	3200	ug/Kg	1	06/25/24	MR	SW8270E
2,4-Dinitrotoluene	ND	900	ug/Kg	1	06/25/24	MR	SW8270E
2,6-Dinitrotoluene	ND	900	ug/Kg	1	06/25/24	MR	SW8270E
2-Chloronaphthalene	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
2-Chlorophenol	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
2-Methylnaphthalene	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
2-Methylphenol (o-cresol)	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
2-Nitroaniline	ND	3200	ug/Kg	1	06/25/24	MR	SW8270E
2-Nitrophenol	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	3200	ug/Kg	1	06/25/24	MR	SW8270E
3,3'-Dichlorobenzidine	ND	1400	ug/Kg	1	06/25/24	MR	SW8270E
3-Nitroaniline	ND	3200	ug/Kg	1	06/25/24	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	3200	ug/Kg	1	06/25/24	MR	SW8270E
4-Bromophenyl phenyl ether	ND	3200	ug/Kg	1	06/25/24	MR	SW8270E
4-Chloro-3-methylphenol	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
4-Chloroaniline	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
4-Nitroaniline	ND	5100	ug/Kg	1	06/25/24	MR	SW8270E
4-Nitrophenol	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Acenaphthene	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Acenaphthylene	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Acetophenone	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Aniline	ND	3200	ug/Kg	1	06/25/24	MR	SW8270E
Anthracene	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Benz(a)anthracene	ND	1000	ug/Kg	1	06/25/24	MR	SW8270E
Benzidine	ND	200	ug/Kg	1	06/25/24	MR	SW8270E
Benzo(a)pyrene	ND	1000	ug/Kg	1	06/25/24	MR	SW8270E
Benzo(b)fluoranthene	1100	1000	ug/Kg	1	06/25/24	MR	SW8270E
Benzo(ghi)perylene	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Benzo(k)fluoranthene	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Benzoic acid	ND	6300	ug/Kg	1	06/25/24	MR	SW8270E
Benzyl butyl phthalate	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	1000	ug/Kg	1	06/25/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	3200	ug/Kg	1	06/25/24	MR	SW8270E
Carbazole	ND	3200	ug/Kg	1	06/25/24	MR	SW8270E
Chrysene	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Dibenz(a,h)anthracene	ND	1000	ug/Kg	1	06/25/24	MR	SW8270E
Dibenzofuran	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Diethyl phthalate	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Dimethylphthalate	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Di-n-butylphthalate	ND	3200	ug/Kg	1	06/25/24	MR	SW8270E
Di-n-octylphthalate	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E

Project ID: TAYLORS POND DAM
Client ID: TPSD-03

Phoenix I.D.: CQ97181

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Fluoranthene	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Fluorene	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Hexachlorobenzene	ND	1000	ug/Kg	1	06/25/24	MR	SW8270E
Hexachlorobutadiene	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Hexachlorocyclopentadiene	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Hexachloroethane	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Indeno(1,2,3-cd)pyrene	ND	1000	ug/Kg	1	06/25/24	MR	SW8270E
Isophorone	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Naphthalene	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Nitrobenzene	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
N-Nitrosodimethylamine	ND	200	ug/Kg	1	06/25/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	200	ug/Kg	1	06/25/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	3200	ug/Kg	1	06/25/24	MR	SW8270E
Pentachloronitrobenzene	ND	3200	ug/Kg	1	06/25/24	MR	SW8270E
Pentachlorophenol	ND	3200	ug/Kg	1	06/25/24	MR	SW8270E
Phenanthrene	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Phenol	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Pyrene	ND	2200	ug/Kg	1	06/25/24	MR	SW8270E
Pyridine	ND	3200	ug/Kg	1	06/25/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	68		%	1	06/25/24	MR	30 - 130 %
% 2-Fluorobiphenyl	64		%	1	06/25/24	MR	30 - 130 %
% 2-Fluorophenol	56		%	1	06/25/24	MR	30 - 130 %
% Nitrobenzene-d5	67		%	1	06/25/24	MR	30 - 130 %
% Phenol-d5	59		%	1	06/25/24	MR	30 - 130 %
% Terphenyl-d14	71		%	1	06/25/24	MR	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

* See Attached. Sieve Analysis performed by Tri State Materials Testing Lab, LLC. Accredited by the National Voluntary Laboratory Accreditation Program; NVLAP Lab Code 200010-0.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Due to the high % moisture of the samples, some of the analytes were evaluated below the lowest calibration standard in order to achieve the requested reporting levels.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 27, 2024
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2024

FOR: Attn: Mr Josh Wilson
Biohabitats
363 Main Street, Suite 506
Middletown CT, 06457

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		06/17/24	14:30
Location Code:	BIOHABITATS	Received by:	B	06/17/24	18:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCQ97179
Phoenix ID: CQ97182

Project ID: TAYLORS POND DAM
Client ID: EQUIP BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/21/24	CPP	E200.7
Arsenic	< 0.004	0.004	mg/L	1	06/21/24	CPP	E200.7
Beryllium	< 0.001	0.001	mg/L	1	06/21/24	CPP	E200.7
Cadmium	< 0.001	0.001	mg/L	1	06/21/24	CPP	E200.7
Chromium	< 0.001	0.001	mg/L	1	06/21/24	CPP	E200.7
Copper	< 0.005	0.005	mg/L	1	06/21/24	CPP	E200.7
Mercury	< 0.0002	0.0002	mg/L	1	06/18/24	AL1	E245.1
Nickel	< 0.001	0.001	mg/L	1	06/21/24	CPP	E200.7
Lead	< 0.001	0.001	mg/L	1	06/21/24	CPP	SW6010D
Antimony	< 0.005	0.005	mg/L	1	06/21/24	CPP	E200.7
Selenium	< 0.010	0.010	mg/L	1	06/21/24	CPP	E200.7
Thallium	< 0.0005	0.0005	mg/L	5	06/21/24	AL1	SW6020B/E200.8
Zinc	< 0.004	0.004	mg/L	1	06/21/24	CPP	E200.7
pH	7.62	1.00	pH Units	1	06/17/24 21:26	MW	SM4500-H B-11
Total Organic Carbon	< 1.0	1.0	mg/L	1	06/18/24	EG	SM5310B-14
Total Solids	< 10	10	mg/L	1	06/18/24	EC	SM2540B-15
Mercury Digestion	Completed				06/18/24	AL/AL	SW7470/245.1
Extraction for Herbicide	Completed				06/20/24	CV/D	SW8151A
PCB Extraction	Completed				06/17/24	LB1/LB1	SW3510C
Extraction for Pest (LDL)	Completed				06/17/24	LB1/LB1	SW3510C
Semi-Volatile Extraction	Completed				06/18/24	Z/MQ/K	SW3520C
Total Metals Digestion	Completed				06/20/24	P	SW3010A
Total Metals Digestion MS	Completed				06/17/24	P	SW3010A
Chlorinated Herbicides							
2,4,5-T	ND	0.26	ug/L	1	06/21/24	JRB	SW8151A
2,4,5-TP (Silvex)	ND	0.26	ug/L	1	06/21/24	JRB	SW8151A

Ver 1

Project ID: TAYLORS POND DAM
Client ID: EQUIP BLANK

Phoenix I.D.: CQ97182

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,4-D	ND	0.53	ug/L	1	06/21/24	JRB	SW8151A
2,4-DB	ND	5.3	ug/L	1	06/21/24	JRB	SW8151A
Dalapon	ND	0.26	ug/L	1	06/21/24	JRB	SW8151A
Dicamba	ND	0.26	ug/L	1	06/21/24	JRB	SW8151A
Dichloroprop	ND	0.53	ug/L	1	06/21/24	JRB	SW8151A
Dinoseb	ND	0.53	ug/L	1	06/21/24	JRB	SW8151A
MCPA	ND	79	ug/L	1	06/21/24	JRB	SW8151A
MCPP	ND	79	ug/L	1	06/21/24	JRB	SW8151A
QA/QC Surrogates							
% DCAA	66		%	1	06/21/24	JRB	30 - 150 %
% DCAA (Confirmation)	59		%	1	06/21/24	JRB	30 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	0.10	ug/L	1	06/18/24	SC	SW8082A
PCB-1221	ND	0.10	ug/L	1	06/18/24	SC	SW8082A
PCB-1232	ND	0.10	ug/L	1	06/18/24	SC	SW8082A
PCB-1242	ND	0.10	ug/L	1	06/18/24	SC	SW8082A
PCB-1248	ND	0.10	ug/L	1	06/18/24	SC	SW8082A
PCB-1254	ND	0.10	ug/L	1	06/18/24	SC	SW8082A
PCB-1260	ND	0.10	ug/L	1	06/18/24	SC	SW8082A
PCB-1262	ND	0.10	ug/L	1	06/18/24	SC	SW8082A
PCB-1268	ND	0.10	ug/L	1	06/18/24	SC	SW8082A
QA/QC Surrogates							
% DCBP	123		%	1	06/18/24	SC	30 - 150 %
% DCBP (Confirmation)	121		%	1	06/18/24	SC	30 - 150 %
% TCMX	85		%	1	06/18/24	SC	30 - 150 %
% TCMX (Confirmation)	79		%	1	06/18/24	SC	30 - 150 %
Pesticides							
4,4' -DDD	ND	0.050	ug/L	1	06/18/24	AW	SW8081B
4,4' -DDE	ND	0.050	ug/L	1	06/18/24	AW	SW8081B
4,4' -DDT	ND	0.050	ug/L	1	06/18/24	AW	SW8081B
a-BHC	ND	0.025	ug/L	1	06/18/24	AW	SW8081B
Alachlor	ND	0.075	ug/L	1	06/18/24	AW	SW8081B
Aldrin	ND	0.010	ug/L	1	06/18/24	AW	SW8081B
b-BHC	ND	0.010	ug/L	1	06/18/24	AW	SW8081B
Chlordane	ND	0.30	ug/L	1	06/18/24	AW	SW8081B
d-BHC	ND	0.025	ug/L	1	06/18/24	AW	SW8081B
Dieldrin	ND	0.010	ug/L	1	06/18/24	AW	SW8081B
Endosulfan I	ND	0.050	ug/L	1	06/18/24	AW	SW8081B
Endosulfan II	ND	0.050	ug/L	1	06/18/24	AW	SW8081B
Endosulfan Sulfate	ND	0.050	ug/L	1	06/18/24	AW	SW8081B
Endrin	ND	0.050	ug/L	1	06/18/24	AW	SW8081B
Endrin Aldehyde	ND	0.050	ug/L	1	06/18/24	AW	SW8081B
Endrin ketone	ND	0.050	ug/L	1	06/18/24	AW	SW8081B
g-BHC (Lindane)	ND	0.025	ug/L	1	06/18/24	AW	SW8081B
Heptachlor	ND	0.025	ug/L	1	06/18/24	AW	SW8081B
Heptachlor epoxide	ND	0.025	ug/L	1	06/18/24	AW	SW8081B
Methoxychlor	ND	0.10	ug/L	1	06/18/24	AW	SW8081B
Toxaphene	ND	1.0	ug/L	1	06/18/24	AW	SW8081B

Project ID: TAYLORS POND DAM
Client ID: EQUIP BLANK

Phoenix I.D.: CQ97182

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates							
%DCBP (Surrogate Rec)	106		%	1	06/18/24	AW	30 - 150 %
%DCBP (Surrogate Rec) (Confirmation)	86		%	1	06/18/24	AW	30 - 150 %
%TCMX (Surrogate Rec)	77		%	1	06/18/24	AW	30 - 150 %
%TCMX (Surrogate Rec) (Confirmation)	98		%	1	06/18/24	AW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/18/24	MH	SW8260D
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
1,1-Dichloroethane	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
1,1-Dichloroethene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
1,1-Dichloropropene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
1,2-Dibromoethane	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
1,2-Dichloroethane	ND	0.60	ug/L	1	06/18/24	MH	SW8260D
1,2-Dichloropropane	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
1,3-Dichloropropane	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
2,2-Dichloropropane	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
2-Chlorotoluene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
2-Hexanone	ND	5.0	ug/L	1	06/18/24	MH	SW8260D
2-Isopropyltoluene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
4-Chlorotoluene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/18/24	MH	SW8260D
Acetone	ND	25	ug/L	1	06/18/24	MH	SW8260D
Acrylonitrile	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
Benzene	ND	0.70	ug/L	1	06/18/24	MH	SW8260D
Bromobenzene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
Bromochloromethane	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
Bromodichloromethane	ND	0.50	ug/L	1	06/18/24	MH	SW8260D
Bromoform	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
Bromomethane	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
Carbon Disulfide	ND	5.0	ug/L	1	06/18/24	MH	SW8260D
Carbon tetrachloride	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
Chlorobenzene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
Chloroethane	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
Chloroform	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
Chloromethane	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/18/24	MH	SW8260D
Dibromochloromethane	ND	0.50	ug/L	1	06/18/24	MH	SW8260D

Project ID: TAYLORS POND DAM
Client ID: EQUIP BLANK

Phoenix I.D.: CQ97182

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibromomethane	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
Ethylbenzene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
Hexachlorobutadiene	ND	0.40	ug/L	1	06/18/24	MH	SW8260D
Isopropylbenzene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
m&p-Xylene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
Methyl ethyl ketone	ND	5.0	ug/L	1	06/18/24	MH	SW8260D
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
Methylene chloride	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
Naphthalene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
n-Butylbenzene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
n-Propylbenzene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
o-Xylene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
p-Isopropyltoluene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
sec-Butylbenzene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
Styrene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
tert-Butylbenzene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
Tetrachloroethene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/18/24	MH	SW8260D
Toluene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
Total Xylenes	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/18/24	MH	SW8260D
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/18/24	MH	SW8260D
Trichloroethene	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
Trichlorofluoromethane	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
Vinyl chloride	ND	1.0	ug/L	1	06/18/24	MH	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/18/24	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	06/18/24	MH	70 - 130 %
% Dibromofluoromethane	106		%	1	06/18/24	MH	70 - 130 %
% Toluene-d8	97		%	1	06/18/24	MH	70 - 130 %
Oxygenates & Dioxane							
1,4-Dioxane	ND	100	ug/L	1	06/18/24	MH	SW8260D (OXY)
Diethyl ether	ND	1.0	ug/L	1	06/18/24	MH	SW8260D (OXY)
Ethyl tert-butyl ether	ND	1.0	ug/L	1	06/18/24	MH	SW8260D (OXY)
tert-amyl methyl ether	ND	1.0	ug/L	1	06/18/24	MH	SW8260D (OXY)
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	3.3	ug/L	1	06/21/24	MR	SW8270E
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
1,2-Dichlorobenzene	ND	2.4	ug/L	1	06/21/24	MR	SW8270E
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
1,3-Dichlorobenzene	ND	2.4	ug/L	1	06/21/24	MR	SW8270E
1,4-Dichlorobenzene	ND	2.4	ug/L	1	06/21/24	MR	SW8270E
2,2'-Oxybis(1-Chloropropane)	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	06/21/24	MR	SW8270E
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	06/21/24	MR	SW8270E

Project ID: TAYLORS POND DAM
Client ID: EQUIP BLANK

Phoenix I.D.: CQ97182

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,4-Dichlorophenol	ND	0.94	ug/L	1	06/21/24	MR	SW8270E
2,4-Dimethylphenol	ND	0.94	ug/L	1	06/21/24	MR	SW8270E
2,4-Dinitrophenol	ND	0.94	ug/L	1	06/21/24	MR	SW8270E
2,4-Dinitrotoluene	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
2,6-Dinitrotoluene	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
2-Chloronaphthalene	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
2-Chlorophenol	ND	0.94	ug/L	1	06/21/24	MR	SW8270E
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	06/21/24	MR	SW8270E
2-Nitroaniline	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
2-Nitrophenol	ND	0.94	ug/L	1	06/21/24	MR	SW8270E
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	06/21/24	MR	SW8270E
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
3-Nitroaniline	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	06/21/24	MR	SW8270E
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	06/21/24	MR	SW8270E
4-Chloroaniline	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	06/21/24	MR	SW8270E
4-Nitroaniline	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
4-Nitrophenol	ND	0.94	ug/L	1	06/21/24	MR	SW8270E
Acetophenone	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
Aniline	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
Benzidine	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
Benzoic acid	ND	47	ug/L	1	06/21/24	MR	SW8270E
Benzyl butyl phthalate	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	06/21/24	MR	SW8270E
Bis(2-ethylhexyl)phthalate	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
Carbazole	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
Dibenzofuran	ND	0.94	ug/L	1	06/21/24	MR	SW8270E
Diethyl phthalate	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
Dimethylphthalate	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
Di-n-butylphthalate	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
Di-n-octylphthalate	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
Hexachloroethane	ND	0.94	ug/L	1	06/21/24	MR	SW8270E
Isophorone	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
N-Nitrosodimethylamine	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	06/21/24	MR	SW8270E
Pentachloronitrobenzene	ND	2.4	ug/L	1	06/21/24	MR	SW8270E
Phenol	ND	0.94	ug/L	1	06/21/24	MR	SW8270E
QA/QC Surrogates							
% 2,4,6-Tribromophenol	70		%	1	06/21/24	MR	15 - 110 %
% 2-Fluorobiphenyl	68		%	1	06/21/24	MR	30 - 130 %
% 2-Fluorophenol	52		%	1	06/21/24	MR	15 - 110 %
% Nitrobenzene-d5	66		%	1	06/21/24	MR	30 - 130 %
% Phenol-d5	60		%	1	06/21/24	MR	15 - 110 %
% Terphenyl-d14	86		%	1	06/21/24	MR	30 - 130 %

Project ID: TAYLORS POND DAM
Client ID: EQUIP BLANK

Phoenix I.D.: CQ97182

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Semivolatiles (SIM)							
2-Methylnaphthalene	ND	0.47	ug/L	1	06/20/24	MR	SW8270E (SIM)
Acenaphthene	ND	0.47	ug/L	1	06/20/24	MR	SW8270E (SIM)
Acenaphthylene	ND	0.28	ug/L	1	06/20/24	MR	SW8270E (SIM)
Anthracene	ND	0.47	ug/L	1	06/20/24	MR	SW8270E (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/20/24	MR	SW8270E (SIM)
Benzo(a)pyrene	ND	0.19	ug/L	1	06/20/24	MR	SW8270E (SIM)
Benzo(b)fluoranthene	ND	0.07	ug/L	1	06/20/24	MR	SW8270E (SIM)
Benzo(ghi)perylene	ND	0.45	ug/L	1	06/20/24	MR	SW8270E (SIM)
Benzo(k)fluoranthene	ND	0.28	ug/L	1	06/20/24	MR	SW8270E (SIM)
Chrysene	ND	0.47	ug/L	1	06/20/24	MR	SW8270E (SIM)
Dibenz(a,h)anthracene	ND	0.09	ug/L	1	06/20/24	MR	SW8270E (SIM)
Fluoranthene	ND	0.47	ug/L	1	06/20/24	MR	SW8270E (SIM)
Fluorene	ND	0.47	ug/L	1	06/20/24	MR	SW8270E (SIM)
Hexachlorobenzene	ND	0.06	ug/L	1	06/20/24	MR	SW8270E (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	06/20/24	MR	SW8270E (SIM)
Hexachlorocyclopentadiene	ND	0.47	ug/L	1	06/20/24	MR	SW8270E (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.09	ug/L	1	06/20/24	MR	SW8270E (SIM)
Naphthalene	ND	0.47	ug/L	1	06/20/24	MR	SW8270E (SIM)
Nitrobenzene	ND	0.47	ug/L	1	06/20/24	MR	SW8270E (SIM)
Pentachlorophenol	ND	0.47	ug/L	1	06/20/24	MR	SW8270E (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/20/24	MR	SW8270E (SIM)
Pyrene	ND	0.47	ug/L	1	06/20/24	MR	SW8270E (SIM)
Pyridine	ND	0.47	ug/L	1	06/20/24	MR	SW8270E (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	93		%	1	06/20/24	MR	15 - 110 %
% 2-Fluorobiphenyl	76		%	1	06/20/24	MR	30 - 130 %
% 2-Fluorophenol	62		%	1	06/20/24	MR	15 - 110 %
% Nitrobenzene-d5	82		%	1	06/20/24	MR	30 - 130 %
% Phenol-d5	67		%	1	06/20/24	MR	15 - 110 %
% Terphenyl-d14	81		%	1	06/20/24	MR	30 - 130 %

Project ID: TAYLORS POND DAM
Client ID: EQUIP BLANK

Phoenix I.D.: CQ97182

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 27, 2024
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2024

FOR: Attn: Mr Josh Wilson
Biohabitats
363 Main Street, Suite 506
Middletown CT, 06457

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		06/17/24	11:25
Location Code:	BIOHABITATS	Received by:	B	06/17/24	18:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCQ97179
Phoenix ID: CQ97183

Project ID: TAYLORS POND DAM
Client ID: TRIP BLANK LL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				06/17/24		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	06/19/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
1,1-Dichloroethane	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
1,1-Dichloroethene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
1,1-Dichloropropene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
1,2-Dibromoethane	ND	0.50	ug/Kg	1	06/19/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
1,2-Dichloroethane	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
1,2-Dichloropropane	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
1,3-Dichloropropane	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
2,2-Dichloropropane	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
2-Chlorotoluene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
2-Hexanone	ND	25	ug/Kg	1	06/19/24	JLI	SW8260D
2-Isopropyltoluene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D

Project ID: TAYLORS POND DAM
Client ID: TRIP BLANK LL

Phoenix I.D.: CQ97183

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	25	ug/Kg	1	06/19/24	JLI	SW8260D
Acetone	ND	250	ug/Kg	1	06/19/24	JLI	SW8260D
Acrylonitrile	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Benzene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Bromobenzene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Bromochloromethane	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Bromodichloromethane	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Bromoform	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Bromomethane	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Carbon Disulfide	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Carbon tetrachloride	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Chlorobenzene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Chloroethane	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Chloroform	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Chloromethane	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Dibromochloromethane	ND	3.0	ug/Kg	1	06/19/24	JLI	SW8260D
Dibromomethane	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Ethylbenzene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Hexachlorobutadiene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Isopropylbenzene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
m&p-Xylene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	30	ug/Kg	1	06/19/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	06/19/24	JLI	SW8260D
Methylene chloride	ND	10	ug/Kg	1	06/19/24	JLI	SW8260D
Naphthalene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
n-Butylbenzene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
n-Propylbenzene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
o-Xylene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
p-Isopropyltoluene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
sec-Butylbenzene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Styrene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
tert-Butylbenzene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Tetrachloroethene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	06/19/24	JLI	SW8260D
Toluene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Total Xylenes	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	06/19/24	JLI	SW8260D
Trichloroethene	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Trichlorofluoromethane	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	10	ug/Kg	1	06/19/24	JLI	SW8260D
Vinyl chloride	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/19/24	JLI	70 - 130 %

Project ID: TAYLORS POND DAM
Client ID: TRIP BLANK LL

Phoenix I.D.: CQ97183

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	100		%	1	06/19/24	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	06/19/24	JLI	70 - 130 %
% Toluene-d8	105		%	1	06/19/24	JLI	70 - 130 %
Oxygenates & Dioxane							
1,4-Dioxane	ND	100	ug/Kg	1	06/19/24	JLI	SW8260D (OXY)
Diethyl ether	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D (OXY)
Ethyl tert-butyl ether	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D (OXY)
tert-amyl methyl ether	ND	5.0	ug/Kg	1	06/19/24	JLI	SW8260D (OXY)

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 27, 2024
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2024

FOR: Attn: Mr Josh Wilson
Biohabitats
363 Main Street, Suite 506
Middletown CT, 06457

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		06/17/24	11:25
Location Code:	BIOHABITATS	Received by:	B	06/17/24	18:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCQ97179
Phoenix ID: CQ97184

Project ID: TAYLORS POND DAM
Client ID: TRIP BLANK HL

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				06/17/24		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
1,1,1-Trichloroethane	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
1,1,2-Trichloroethane	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
1,1-Dichloroethane	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
1,1-Dichloroethene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
1,1-Dichloropropene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
1,2,3-Trichloropropane	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
1,2-Dibromoethane	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
1,2-Dichlorobenzene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
1,2-Dichloroethane	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
1,2-Dichloropropane	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
1,3-Dichlorobenzene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
1,3-Dichloropropane	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
1,4-Dichlorobenzene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
2,2-Dichloropropane	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
2-Chlorotoluene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
2-Hexanone	ND	1300	ug/Kg	50	06/20/24	JLI	SW8260D
2-Isopropyltoluene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D

Project ID: TAYLORS POND DAM
Client ID: TRIP BLANK HL

Phoenix I.D.: CQ97184

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	06/20/24	JLI	SW8260D
Acetone	ND	5000	ug/Kg	50	06/20/24	JLI	SW8260D
Acrylonitrile	ND	500	ug/Kg	50	06/20/24	JLI	SW8260D
Benzene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Bromobenzene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Bromochloromethane	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Bromodichloromethane	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Bromoform	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Bromomethane	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Carbon Disulfide	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Carbon tetrachloride	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Chlorobenzene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Chloroethane	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Chloroform	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Chloromethane	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Dibromochloromethane	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Dibromomethane	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Dichlorodifluoromethane	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Ethylbenzene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Hexachlorobutadiene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Isopropylbenzene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
m&p-Xylene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	06/20/24	JLI	SW8260D
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Methylene chloride	ND	500	ug/Kg	50	06/20/24	JLI	SW8260D
Naphthalene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
n-Butylbenzene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
n-Propylbenzene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
o-Xylene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
p-Isopropyltoluene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
sec-Butylbenzene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Styrene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
tert-Butylbenzene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Tetrachloroethene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	06/20/24	JLI	SW8260D
Toluene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Total Xylenes	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	06/20/24	JLI	SW8260D
Trichloroethene	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Trichlorofluoromethane	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Trichlorotrifluoroethane	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
Vinyl chloride	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (50x)	98		%	50	06/20/24	JLI	70 - 130 %

Project ID: TAYLORS POND DAM
Client ID: TRIP BLANK HL

Phoenix I.D.: CQ97184

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene (50x)	97		%	50	06/20/24	JLI	70 - 130 %
% Dibromofluoromethane (50x)	103		%	50	06/20/24	JLI	70 - 130 %
% Toluene-d8 (50x)	104		%	50	06/20/24	JLI	70 - 130 %
Oxygenates & Dioxane							
1,4-Dioxane	ND	5000	ug/Kg	50	06/20/24	JLI	SW8260D (OXY)
Diethyl ether	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D (OXY)
Ethyl tert-butyl ether	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D (OXY)
tert-amyl methyl ether	ND	250	ug/Kg	50	06/20/24	JLI	SW8260D (OXY)

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
June 27, 2024
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

QA/QC Report

June 27, 2024

QA/QC Data

SDG I.D.: GCQ97179

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 736932 (mg/kg), QC Sample No: CQ94394 2X (CQ97180, CQ97181)														
Mercury - Soil	BRL	0.02	<0.03	<0.03	NC	101	113	11.2	107	91.3	15.8	70 - 130	30	
Comment: Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.														
QA/QC Batch 736764 (mg/kg), QC Sample No: CQ96374 2X (CQ97179)														
Mercury - Soil	BRL	0.03	0.13	0.20	42.4	116	120	3.4	85.4	110	25.2	70 - 130	30	r
Comment: Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.														
QA/QC Batch 736288 (mg/L), QC Sample No: CQ96868 (CQ97182)														
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	105			95.3			80 - 120	20	
Comment: Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.														
QA/QC Batch 736872 (mg/L), QC Sample No: CQ95613 (CQ97182)														
ICP Metals - Aqueous														
Antimony	BRL	0.005	<0.005	<0.005	NC	93.0	93.7	0.7	89.0			80 - 120	20	
Arsenic	BRL	0.004	<0.004	<0.004	NC	90.5	91.3	0.9	87.7			80 - 120	20	
Beryllium	BRL	0.001	<0.001	<0.001	NC	99.8	101	1.2	96.3			80 - 120	20	
Cadmium	BRL	0.001	<0.001	<0.001	NC	98.4	99.0	0.6	94.8			80 - 120	20	
Chromium	BRL	0.001	0.007	0.007	0	99.5	100	0.5	96.3			80 - 120	20	
Copper	BRL	0.005	0.036	0.034	5.70	98.5	99.2	0.7	96.4			80 - 120	20	
Lead	BRL	0.001	0.004	0.003	NC	97.2	98.1	0.9	96.4			80 - 120	20	
Nickel	BRL	0.001	0.004	0.004	NC	102	103	1.0	98.5			80 - 120	20	
Selenium	BRL	0.010	<0.010	<0.010	NC	83.0	83.9	1.1	78.4			80 - 120	20	
Silver	BRL	0.001	<0.001	<0.001	NC	94.1	94.9	0.8	93.3			80 - 120	20	
Zinc	BRL	0.004	0.100	0.099	1.00	92.4	93.1	0.8	91.0			80 - 120	20	
Comment: Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.														
QA/QC Batch 736422 (mg/kg), QC Sample No: CQ97177 (CQ97179, CQ97180, CQ97181)														
ICP Metals - Soil														
Antimony	BRL	3.3	<4.2	<4.1	NC	99.2	102	2.8	88.8			75 - 125	35	
Arsenic	BRL	0.67	6.07	5.52	9.50	96.4	100	3.7	99.4			75 - 125	35	
Beryllium	BRL	0.27	0.51	0.46	NC	97.8	102	4.2	104			75 - 125	35	
Cadmium	BRL	0.33	<0.42	<0.41	NC	96.5	101	4.6	103			75 - 125	35	
Chromium	BRL	0.33	16.7	14.8	12.1	98.2	102	3.8	105			75 - 125	35	
Copper	BRL	0.67	10.2	9.83	3.70	95.2	98.4	3.3	107			75 - 125	35	
Lead	BRL	0.33	42.0	44.7	6.20	95.2	98.8	3.7	107			75 - 125	35	
Nickel	BRL	0.7	9.17	8.42	8.50	102	104	1.9	103			75 - 125	35	
Selenium	BRL	1.3	<1.7	<1.6	NC	93.7	98.8	5.3	92.5			75 - 125	35	
Silver	BRL	0.33	<0.42	<0.41	NC	99.9	104	4.0	102			75 - 125	35	
Thallium	BRL	3.0	<3.8	<3.7	NC	102	107	4.8	103			75 - 125	35	
Zinc	BRL	0.67	35.8	31.0	14.4	94.2	99.6	5.6	103			75 - 125	35	

QA/QC Data

SDG I.D.: GCQ97179

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													
QA/QC Batch 736246 (mg/L), QC Sample No: CQ95341 5X (CQ97182)													
ICP MS Metals - Aqueous													
Thallium	BRL	0.0005	<0.0005	<0.0005	NC	101	101	0.0	94.8			80 - 120	20
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													

r = This parameter is outside laboratory RPD specified recovery limits.

Environmental Laboratories, Inc.
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QA/QC Report

June 27, 2024

QA/QC Data

SDG I.D.: GCQ97179

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 736358 (mg/L), QC Sample No: CQ96606 (CQ97182)													
Total Organic Carbon	BRL	1.0	5.8	6.2	6.70	98.0			103			85 - 115	20
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 736256 (%), QC Sample No: CQ96623 (CQ97179, CQ97180, CQ97181)													
Total Solids	BRL	0.1	86.8	87.4	0.70	100						85 - 115	30
QA/QC Batch 736267 (PH), QC Sample No: CQ96808 (CQ97182)													
pH			7.51	7.51	0	101						85 - 115	20
QA/QC Batch 736367 (mg/L), QC Sample No: CQ96856 (CQ97182)													
Total Solids	BRL	10	<10	<10	NC	101						85 - 115	20
QA/QC Batch 736265 (PH), QC Sample No: CQ96979 (CQ97179, CQ97180, CQ97181)													
pH			9.08	9.08	0	101						85 - 115	20
QA/QC Batch 737135 (mg/kg), QC Sample No: CQ96979 (CQ97179, CQ97180, CQ97181)													
Tot.Org.Carbon	BRL	100	6750	6390	5.50	96.0						75 - 125	30
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													

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QA/QC Report

June 27, 2024

QA/QC Data

SDG I.D.: GCQ97179

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 736610 (ug/Kg), QC Sample No: CQ97126 10X (CQ97179, CQ97180, CQ97181)											
Chlorinated Herbicides - Sediment											
2,4,5-T	ND	130	74	85	13.8	61	59	3.3	40 - 140	30	
2,4,5-TP (Silvex)	ND	130	73	82	11.6	61	58	5.0	40 - 140	30	
2,4-D	ND	250	78	87	10.9	76	67	12.6	40 - 140	30	
2,4-DB	ND	2500	63	76	18.7	52	50	3.9	40 - 140	30	
Dalapon	ND	130	66	69	4.4	50	50	0.0	40 - 140	30	
Dicamba	ND	130	81	82	1.2	70	69	1.4	40 - 140	30	
Dichloroprop	ND	130	83	93	11.4	69	70	1.4	40 - 140	30	
Dinoseb	ND	130	82	86	4.8	65	61	6.3	40 - 140	30	
MCPA	ND	38000	71	79	10.7	58	62	6.7	40 - 140	30	
MCPP	ND	38000	75	84	11.3	67	66	1.5	40 - 140	30	
% DCAA (Surrogate Rec)	96	%	100	113	12.2	82	82	0.0	30 - 150	30	
% DCAA (Surrogate Rec) (Confirm	93	%	103	113	9.3	81	82	1.2	30 - 150	30	
Comment:											
Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.											
QA/QC Batch 736756 (ug/L), QC Sample No: CQ97182 10X (CQ97182)											
Chlorinated Herbicides - Water											
2,4,5-T	ND	2.5	99	102	3.0				40 - 140	20	
2,4,5-TP (Silvex)	ND	2.5	103	94	9.1				40 - 140	20	
2,4-D	ND	5.0	75	77	2.6				40 - 140	20	
2,4-DB	ND	50	49	46	6.3				40 - 140	20	
Dalapon	ND	2.5	78	78	0.0				40 - 140	20	
Dicamba	ND	2.5	97	96	1.0				40 - 140	20	
Dichloroprop	ND	5.0	108	104	3.8				40 - 140	20	
Dinoseb	ND	5.0	76	92	19.0				40 - 140	20	
MCPA	ND	750	91	85	6.8				40 - 140	20	
MCPP	ND	750	100	98	2.0				40 - 140	20	
% DCAA (Surrogate Rec)	125	%	143	145	1.4				30 - 150	20	
% DCAA (Surrogate Rec) (Confirm	113	%	156	124	22.9				30 - 150	20	l,r
Comment:											
Additional criteria: LCS acceptance range is 40-140% MS acceptance range 30-150%.											
QA/QC Batch 736186 (ug/L), QC Sample No: CQ96375 (CQ97182)											
Polychlorinated Biphenyls - Water											
PCB-1016	ND	0.050	72	62	14.9				40 - 140	20	
PCB-1221	ND	0.050							40 - 140	20	
PCB-1232	ND	0.050							40 - 140	20	
PCB-1242	ND	0.050							40 - 140	20	
PCB-1248	ND	0.050							40 - 140	20	
PCB-1254	ND	0.050							40 - 140	20	
PCB-1260	ND	0.050	71	82	14.4				40 - 140	20	
PCB-1262	ND	0.050							40 - 140	20	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
PCB-1268	ND	0.050							40 - 140	20	
% DCBP (Surrogate Rec)	42	%	75	87	14.8				30 - 150	20	
% DCBP (Surrogate Rec) (Confirm	42	%	79	88	10.8				30 - 150	20	
% TCMX (Surrogate Rec)	62	%	45	45	0.0				30 - 150	20	
% TCMX (Surrogate Rec) (Confirm	59	%	46	44	4.4				30 - 150	20	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 737312 (ug/Kg), QC Sample No: CR01966 2X (CQ97179, CQ97180, CQ97181)

Polychlorinated Biphenyls - Sediment

PCB-1016	ND	33	84	87	3.5	101	99	2.0	40 - 140	30	
PCB-1221	ND	33							40 - 140	30	
PCB-1232	ND	33							40 - 140	30	
PCB-1242	ND	33							40 - 140	30	
PCB-1248	ND	33							40 - 140	30	
PCB-1254	ND	33							40 - 140	30	
PCB-1260	ND	33	92	88	4.4	99	98	1.0	40 - 140	30	
PCB-1262	ND	33							40 - 140	30	
PCB-1268	ND	33							40 - 140	30	
% DCBP (Surrogate Rec)	85	%	87	81	7.1	90	86	4.5	30 - 150	30	
% DCBP (Surrogate Rec) (Confirm	75	%	82	76	7.6	84	81	3.6	30 - 150	30	
% TCMX (Surrogate Rec)	62	%	63	69	9.1	83	76	8.8	30 - 150	30	
% TCMX (Surrogate Rec) (Confirm	62	%	66	71	7.3	86	82	4.8	30 - 150	30	

QA/QC Batch 736187 (ug/L), QC Sample No: CQ96375 (CQ97182)

Pesticides - Water

4,4' -DDD	ND	0.003	97	85	13.2				40 - 140	20	
4,4' -DDE	ND	0.003	84	102	19.4				40 - 140	20	
4,4' -DDT	ND	0.003	96	128	28.6				40 - 140	20	r
a-BHC	ND	0.002	74	82	10.3				40 - 140	20	
Alachlor	ND	0.005	NA	NA	NC				40 - 140	20	
Aldrin	ND	0.002	75	80	6.5				40 - 140	20	
b-BHC	ND	0.002	92	115	22.2				40 - 140	20	r
Chlordane	ND	0.050	78	81	3.8				40 - 140	20	
d-BHC	ND	0.005	65	65	0.0				40 - 140	20	
Dieldrin	ND	0.002	115	105	9.1				40 - 140	20	
Endosulfan I	ND	0.005	97	98	1.0				40 - 140	20	
Endosulfan II	ND	0.005	99	101	2.0				40 - 140	20	
Endosulfan sulfate	ND	0.005	100	107	6.8				40 - 140	20	
Endrin	ND	0.005	94	96	2.1				40 - 140	20	
Endrin aldehyde	ND	0.005	93	93	0.0				40 - 140	20	
Endrin ketone	ND	0.005	84	86	2.4				40 - 140	20	
g-BHC	ND	0.002	88	94	6.6				40 - 140	20	
Heptachlor	ND	0.005	84	82	2.4				40 - 140	20	
Heptachlor epoxide	ND	0.005	89	92	3.3				40 - 140	20	
Methoxychlor	ND	0.005	99	92	7.3				40 - 140	20	
Toxaphene	ND	0.20	NA	NA	NC				40 - 140	20	
% DCBP	49	%	110	84	26.8				30 - 150	20	r
% DCBP (Confirmation)	47	%	116	89	26.3				30 - 150	20	r
% TCMX	62	%	76	74	2.7				30 - 150	20	
% TCMX (Confirmation)	80	%	79	81	2.5				30 - 150	20	

Comment:

A LCS and LCS duplicate were performed instead of a MS and MSD. Alpha and gamma chlordane were spiked and analyzed instead of technical chlordane. Gamma chlordane recovery is reported as chlordane in the LCS and LCSD

QA/QC Data

SDG I.D.: GCQ97179

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 737313 (ug/Kg), QC Sample No: CR01966 2X (CQ97179, CQ97180, CQ97181)											
Pesticides - Sediment											
4,4' -DDD	ND	1.7	85	72	16.6	77	76	1.3	40 - 140	30	
4,4' -DDE	ND	1.7	87	75	14.8	83	83	0.0	40 - 140	30	
4,4' -DDT	ND	1.7	88	77	13.3	85	85	0.0	40 - 140	30	
a-BHC	ND	1.0	78	67	15.2	81	77	5.1	40 - 140	30	
Alachlor	ND	3.3	NA	NA	NC	NA	NA	NC	40 - 140	30	
Aldrin	ND	1.0	83	70	17.0	79	76	3.9	40 - 140	30	
b-BHC	ND	1.0	84	73	14.0	75	81	7.7	40 - 140	30	
Chlordane	ND	33	83	73	12.8	81	80	1.2	40 - 140	30	
d-BHC	ND	3.3	47	71	40.7	78	83	6.2	40 - 140	30	r
Dieldrin	ND	1.0	87	74	16.1	81	81	0.0	40 - 140	30	
Endosulfan I	ND	3.3	79	74	6.5	79	79	0.0	40 - 140	30	
Endosulfan II	ND	3.3	85	78	8.6	84	83	1.2	40 - 140	30	
Endosulfan sulfate	ND	3.3	88	78	12.0	82	84	2.4	40 - 140	30	
Endrin	ND	3.3	92	78	16.5	85	85	0.0	40 - 140	30	
Endrin aldehyde	ND	3.3	77	67	13.9	58	63	8.3	40 - 140	30	
Endrin ketone	ND	3.3	94	82	13.6	83	89	7.0	40 - 140	30	
g-BHC	ND	1.0	85	74	13.8	88	87	1.1	40 - 140	30	
Heptachlor	ND	3.3	78	65	18.2	76	73	4.0	40 - 140	30	
Heptachlor epoxide	ND	3.3	77	65	16.9	73	73	0.0	40 - 140	30	
Methoxychlor	ND	3.3	81	73	10.4	79	88	10.8	40 - 140	30	
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	93	%	90	83	8.1	90	98	8.5	30 - 150	30	
% DCBP (Confirmation)	89	%	88	76	14.6	89	85	4.6	30 - 150	30	
% TCMX	73	%	78	65	18.2	78	80	2.5	30 - 150	30	
% TCMX (Confirmation)	76	%	81	66	20.4	82	79	3.7	30 - 150	30	
QA/QC Batch 736431 (ug/L), QC Sample No: CQ96537 (CQ97182)											
Semivolatiles - Water											
1,2,4,5-Tetrachlorobenzene	ND	3.5	90	87	3.4				40 - 140	20	
1,2,4-Trichlorobenzene	ND	3.5	87	87	0.0				40 - 140	20	
1,2-Dichlorobenzene	ND	1.0	79	81	2.5				40 - 140	20	
1,2-Diphenylhydrazine	ND	1.6	88	86	2.3				40 - 140	20	
1,3-Dichlorobenzene	ND	1.0	78	79	1.3				40 - 140	20	
1,4-Dichlorobenzene	ND	1.0	77	79	2.6				40 - 140	20	
2,2'-Oxybis(1-Chloropropane)	ND	1.0	81	82	1.2				40 - 140	20	
2,4,5-Trichlorophenol	ND	1.0	105	104	1.0				40 - 140	20	
2,4,6-Trichlorophenol	ND	1.0	109	105	3.7				30 - 130	20	
2,4-Dichlorophenol	ND	1.0	102	100	2.0				30 - 130	20	
2,4-Dimethylphenol	ND	1.0	96	92	4.3				30 - 130	20	
2,4-Dinitrophenol	ND	1.0	118	125	5.8				30 - 130	20	
2,4-Dinitrotoluene	ND	3.5	118	116	1.7				30 - 130	20	
2,6-Dinitrotoluene	ND	3.5	115	111	3.5				40 - 140	20	
2-Chloronaphthalene	ND	3.5	96	94	2.1				40 - 140	20	
2-Chlorophenol	ND	1.0	89	88	1.1				30 - 130	20	
2-Methylphenol (o-cresol)	ND	1.0	96	95	1.0				40 - 140	20	
2-Nitroaniline	ND	3.5	117	111	5.3				40 - 140	20	
2-Nitrophenol	ND	1.0	86	87	1.2				40 - 140	20	
3&4-Methylphenol (m&p-cresol)	ND	1.0	95	91	4.3				30 - 130	20	
3,3'-Dichlorobenzidine	ND	5.0	84	74	12.7				40 - 140	20	
3-Nitroaniline	ND	5.0	100	93	7.3				40 - 140	20	
4,6-Dinitro-2-methylphenol	ND	1.0	142	139	2.1				30 - 130	20	l

QA/QC Data

SDG I.D.: GCQ97179

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Bromophenyl phenyl ether	ND	3.5	109	105	3.7				40 - 140	20	
4-Chloro-3-methylphenol	ND	1.0	106	103	2.9				30 - 130	20	
4-Chloroaniline	ND	3.5	75	63	17.4				40 - 140	20	
4-Chlorophenyl phenyl ether	ND	1.0	101	98	3.0				40 - 140	20	
4-Nitroaniline	ND	5.0	91	91	0.0				40 - 140	20	
4-Nitrophenol	ND	1.0	89	91	2.2				30 - 130	20	
Acetophenone	ND	3.5	85	85	0.0				40 - 140	20	
Aniline	ND	3.5	63	56	11.8				40 - 140	20	
Benzidine	ND	4.5	71	43	49.1				40 - 140	20	r
Benzoic acid	ND	10	72	89	21.1				30 - 130	20	r
Benzyl butyl phthalate	ND	1.5	127	124	2.4				40 - 140	20	
Bis(2-chloroethoxy)methane	ND	3.5	93	91	2.2				40 - 140	20	
Bis(2-chloroethyl)ether	ND	1.0	81	85	4.8				40 - 140	20	
Bis(2-ethylhexyl)phthalate	ND	1.5	108	105	2.8				40 - 140	20	
Carbazole	ND	5.0	103	97	6.0				40 - 140	20	
Dibenzofuran	ND	3.5	95	93	2.1				40 - 140	20	
Diethyl phthalate	ND	1.5	106	103	2.9				40 - 140	20	
Dimethylphthalate	ND	1.5	103	100	3.0				40 - 140	20	
Di-n-butylphthalate	ND	1.5	114	111	2.7				40 - 140	20	
Di-n-octylphthalate	ND	1.5	99	96	3.1				40 - 140	20	
Hexachloroethane	ND	3.5	83	87	4.7				40 - 140	20	
Isophorone	ND	3.5	87	87	0.0				40 - 140	20	
N-Nitrosodimethylamine	ND	1.0	87	89	2.3				40 - 140	20	
N-Nitrosodi-n-propylamine	ND	3.5	92	92	0.0				40 - 140	20	
N-Nitrosodiphenylamine	ND	3.5	94	89	5.5				40 - 140	20	
Pentachloronitrobenzene	ND	5.0	91	88	3.4				40 - 140	20	
Phenol	ND	1.0	93	91	2.2				30 - 130	20	
% 2,4,6-Tribromophenol	62	%	73	70	4.2				15 - 110	20	
% 2-Fluorobiphenyl	69	%	86	85	1.2				30 - 130	20	
% 2-Fluorophenol	54	%	75	75	0.0				15 - 110	20	
% Nitrobenzene-d5	66	%	85	87	2.3				30 - 130	20	
% Phenol-d5	60	%	81	79	2.5				15 - 110	20	
% Terphenyl-d14	83	%	99	94	5.2				30 - 130	20	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 737293 (ug/kg), QC Sample No: CQ97009 (CQ97179, CQ97180, CQ97181)

Semivolatiles - Sediment

1,2,4,5-Tetrachlorobenzene	ND	230	59	79	29.0	77	75	2.6	40 - 140	30	
1,2,4-Trichlorobenzene	ND	230	58	78	29.4	78	69	12.2	40 - 140	30	
1,2-Dichlorobenzene	ND	180	50	64	24.6	66	56	16.4	40 - 140	30	
1,2-Diphenylhydrazine	ND	230	60	79	27.3	77	78	1.3	40 - 140	30	
1,3-Dichlorobenzene	ND	230	48	61	23.9	63	53	17.2	40 - 140	30	
1,4-Dichlorobenzene	ND	230	49	63	25.0	66	55	18.2	40 - 140	30	
2,2'-Oxybis(1-Chloropropane)	ND	230	46	58	23.1	59	53	10.7	40 - 140	30	
2,4,5-Trichlorophenol	ND	230	62	81	26.6	79	85	7.3	40 - 140	30	
2,4,6-Trichlorophenol	ND	130	65	85	26.7	83	87	4.7	30 - 130	30	
2,4-Dichlorophenol	ND	130	66	88	28.6	86	84	2.4	30 - 130	30	
2,4-Dimethylphenol	ND	230	65	88	30.1	88	86	2.3	30 - 130	30	
2,4-Dinitrophenol	ND	230	70	99	34.3	102	116	12.8	30 - 130	30	r
2,4-Dinitrotoluene	ND	130	75	98	26.6	96	101	5.1	30 - 130	30	

QA/QC Data

SDG I.D.: GCQ97179

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2,6-Dinitrotoluene	ND	130	73	95	26.2	92	97	5.3	40 - 140	30	
2-Chloronaphthalene	ND	230	59	77	26.5	77	74	4.0	40 - 140	30	
2-Chlorophenol	ND	230	61	79	25.7	80	73	9.2	30 - 130	30	
2-Methylnaphthalene	ND	230	61	80	27.0	79	75	5.2	40 - 140	30	
2-Methylphenol (o-cresol)	ND	230	60	78	26.1	78	75	3.9	40 - 140	30	
2-Nitroaniline	ND	330	90	113	22.7	112	114	1.8	40 - 140	30	
2-Nitrophenol	ND	230	68	88	25.6	88	82	7.1	40 - 140	30	
3&4-Methylphenol (m&p-cresol)	ND	230	61	83	30.6	81	79	2.5	30 - 130	30	r
3,3'-Dichlorobenzidine	ND	130	70	87	21.7	99	110	10.5	40 - 140	30	
3-Nitroaniline	ND	330	72	86	17.7	89	88	1.1	40 - 140	30	
4,6-Dinitro-2-methylphenol	ND	230	91	120	27.5	121	125	3.3	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	67	87	26.0	85	92	7.9	40 - 140	30	
4-Chloro-3-methylphenol	ND	230	71	97	31.0	93	95	2.1	30 - 130	30	r
4-Chloroaniline	ND	230	60	73	19.5	71	69	2.9	40 - 140	30	
4-Chlorophenyl phenyl ether	ND	230	65	85	26.7	82	85	3.6	40 - 140	30	
4-Nitroaniline	ND	230	68	87	24.5	86	88	2.3	40 - 140	30	
4-Nitrophenol	ND	230	62	77	21.6	79	84	6.1	30 - 130	30	
Acenaphthene	ND	230	57	75	27.3	73	74	1.4	30 - 130	30	
Acenaphthylene	ND	130	54	70	25.8	69	68	1.5	40 - 140	30	
Acetophenone	ND	230	54	70	25.8	70	64	9.0	40 - 140	30	
Aniline	ND	330	43	53	20.8	53	51	3.8	40 - 140	30	
Anthracene	ND	230	62	80	25.4	78	79	1.3	40 - 140	30	
Benz(a)anthracene	ND	230	64	84	27.0	80	88	9.5	40 - 140	30	
Benzidine	ND	330	44	53	18.6	38	37	2.7	40 - 140	30	m
Benzo(a)pyrene	ND	130	68	89	26.8	87	93	6.7	40 - 140	30	
Benzo(b)fluoranthene	ND	160	63	82	26.2	80	87	8.4	40 - 140	30	
Benzo(ghi)perylene	ND	230	65	85	26.7	76	82	7.6	40 - 140	30	
Benzo(k)fluoranthene	ND	230	61	80	27.0	76	82	7.6	40 - 140	30	
Benzoic Acid	ND	670	78	100	24.7	114	116	1.7	30 - 130	30	
Benzyl butyl phthalate	ND	230	64	83	25.9	81	88	8.3	40 - 140	30	
Bis(2-chloroethoxy)methane	ND	230	64	84	27.0	84	76	10.0	40 - 140	30	
Bis(2-chloroethyl)ether	ND	130	58	75	25.6	75	68	9.8	40 - 140	30	
Bis(2-ethylhexyl)phthalate	ND	230	65	86	27.8	82	92	11.5	40 - 140	30	
Carbazole	ND	230	61	79	25.7	77	80	3.8	40 - 140	30	
Chrysene	ND	230	59	76	25.2	73	79	7.9	40 - 140	30	
Dibenz(a,h)anthracene	ND	130	66	88	28.6	81	86	6.0	40 - 140	30	
Dibenzofuran	ND	230	59	77	26.5	75	76	1.3	40 - 140	30	
Diethyl phthalate	ND	230	64	84	27.0	80	84	4.9	40 - 140	30	
Dimethylphthalate	ND	230	65	85	26.7	81	84	3.6	40 - 140	30	
Di-n-butylphthalate	ND	670	69	88	24.2	86	86	0.0	40 - 140	30	
Di-n-octylphthalate	ND	230	63	83	27.4	81	86	6.0	40 - 140	30	
Fluoranthene	ND	230	64	83	25.9	80	83	3.7	40 - 140	30	
Fluorene	ND	230	64	83	25.9	80	82	2.5	40 - 140	30	
Hexachlorobenzene	ND	130	55	71	25.4	69	72	4.3	40 - 140	30	
Hexachlorobutadiene	ND	230	62	83	29.0	83	73	12.8	40 - 140	30	
Hexachlorocyclopentadiene	ND	230	48	66	31.6	57	57	0.0	40 - 140	30	r
Hexachloroethane	ND	130	51	65	24.1	67	56	17.9	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	64	84	27.0	79	82	3.7	40 - 140	30	
Isophorone	ND	130	56	75	29.0	73	69	5.6	40 - 140	30	
Naphthalene	ND	230	60	78	26.1	79	71	10.7	40 - 140	30	
Nitrobenzene	ND	130	60	77	24.8	77	72	6.7	40 - 140	30	
N-Nitrosodimethylamine	ND	230	43	55	24.5	57	46	21.4	40 - 140	30	
N-Nitrosodi-n-propylamine	ND	130	63	83	27.4	81	77	5.1	40 - 140	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
N-Nitrosodiphenylamine	ND	130	64	85	28.2	81	85	4.8	40 - 140	30	
Pentachloronitrobenzene	ND	230	57	75	27.3	71	77	8.1	40 - 140	30	
Pentachlorophenol	ND	230	56	76	30.3	71	82	14.4	30 - 130	30	
Phenanthrene	ND	130	60	77	24.8	76	78	2.6	40 - 140	30	
Phenol	ND	230	62	80	25.4	80	76	5.1	30 - 130	30	
Pyrene	ND	230	62	80	25.4	79	79	0.0	30 - 130	30	
Pyridine	ND	230	30	38	23.5	41	30	31.0	40 - 140	30	l,m,r
% 2,4,6-Tribromophenol	72	%	53	71	29.0	71	74	4.1	30 - 130	30	
% 2-Fluorobiphenyl	70	%	55	71	25.4	72	69	4.3	30 - 130	30	
% 2-Fluorophenol	60	%	48	64	28.6	67	60	11.0	30 - 130	30	
% Nitrobenzene-d5	71	%	58	75	25.6	77	72	6.7	30 - 130	30	
% Phenol-d5	63	%	51	67	27.1	68	64	6.1	30 - 130	30	
% Terphenyl-d14	76	%	62	79	24.1	78	81	3.8	30 - 130	30	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 736431 (ug/L), QC Sample No: CQ96537 (CQ97182)

Semivolatiles (SIM) - Water

2-Methylnaphthalene	ND	0.50	74	73	1.4				30 - 130	20	
Acenaphthene	ND	0.50	87	87	0.0				30 - 130	20	
Acenaphthylene	ND	0.50	69	68	1.5				30 - 130	20	
Anthracene	ND	0.50	82	81	1.2				30 - 130	20	
Benz(a)anthracene	ND	0.50	99	98	1.0				30 - 130	20	
Benzo(a)pyrene	ND	0.50	99	95	4.1				30 - 130	20	
Benzo(b)fluoranthene	ND	0.50	95	92	3.2				30 - 130	20	
Benzo(ghi)perylene	ND	0.50	99	98	1.0				30 - 130	20	
Benzo(k)fluoranthene	ND	0.50	92	91	1.1				30 - 130	20	
Chrysene	ND	0.50	90	90	0.0				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.50	93	90	3.3				30 - 130	20	
Fluoranthene	ND	0.50	80	78	2.5				30 - 130	20	
Fluorene	ND	0.50	77	77	0.0				30 - 130	20	
Hexachlorobenzene	ND	0.50	85	82	3.6				30 - 130	20	
Hexachlorobutadiene	ND	0.50	76	80	5.1				30 - 130	20	
Hexachlorocyclopentadiene	ND	0.50	30	30	0.0				30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.50	91	88	3.4				30 - 130	20	
Naphthalene	ND	0.50	74	75	1.3				30 - 130	20	
Nitrobenzene	ND	0.50	82	84	2.4				30 - 130	20	
Pentachlorophenol	ND	0.50	81	79	2.5				30 - 130	20	
Phenanthrene	ND	0.50	86	85	1.2				30 - 130	20	
Pyrene	ND	0.50	78	77	1.3				30 - 130	20	
Pyridine	ND	0.50	52	52	0.0				30 - 130	20	
% 2,4,6-Tribromophenol	85	%	87	86	1.2				15 - 110	20	
% 2-Fluorobiphenyl	81	%	77	78	1.3				30 - 130	20	
% 2-Fluorophenol	62	%	68	72	5.7				15 - 110	20	
% Nitrobenzene-d5	81	%	76	78	2.6				30 - 130	20	
% Phenol-d5	67	%	68	67	1.5				15 - 110	20	
% Terphenyl-d14	81	%	78	76	2.6				30 - 130	20	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 736567 (ug/L), QC Sample No: CQ96648 (CQ97182)										
Volatiles - Water										
1,1,1,2-Tetrachloroethane	ND	1.0	110	107	2.8				70 - 130	20
1,1,1-Trichloroethane	ND	1.0	96	98	2.1				70 - 130	20
1,1,2,2-Tetrachloroethane	ND	0.50	99	99	0.0				70 - 130	20
1,1,2-Trichloroethane	ND	1.0	99	97	2.0				70 - 130	20
1,1-Dichloroethane	ND	1.0	89	91	2.2				70 - 130	20
1,1-Dichloroethene	ND	1.0	91	93	2.2				70 - 130	20
1,1-Dichloropropene	ND	1.0	100	101	1.0				70 - 130	20
1,2,3-Trichlorobenzene	ND	1.0	106	108	1.9				70 - 130	20
1,2,3-Trichloropropane	ND	1.0	105	105	0.0				70 - 130	20
1,2,4-Trichlorobenzene	ND	1.0	109	110	0.9				70 - 130	20
1,2,4-Trimethylbenzene	ND	1.0	106	108	1.9				70 - 130	20
1,2-Dibromo-3-chloropropane	ND	1.0	101	100	1.0				70 - 130	20
1,2-Dibromoethane	ND	1.0	104	100	3.9				70 - 130	20
1,2-Dichlorobenzene	ND	1.0	103	105	1.9				70 - 130	20
1,2-Dichloroethane	ND	1.0	96	94	2.1				70 - 130	20
1,2-Dichloropropane	ND	1.0	95	95	0.0				70 - 130	20
1,3,5-Trimethylbenzene	ND	1.0	108	108	0.0				70 - 130	20
1,3-Dichlorobenzene	ND	1.0	104	105	1.0				70 - 130	20
1,3-Dichloropropane	ND	1.0	104	100	3.9				70 - 130	20
1,4-Dichlorobenzene	ND	1.0	106	106	0.0				70 - 130	20
1,4-dioxane	ND	100	93	95	2.1				70 - 130	20
2,2-Dichloropropane	ND	1.0	94	96	2.1				70 - 130	20
2-Chlorotoluene	ND	1.0	105	105	0.0				70 - 130	20
2-Hexanone	ND	5.0	84	82	2.4				70 - 130	20
2-Isopropyltoluene	ND	1.0	108	109	0.9				70 - 130	20
4-Chlorotoluene	ND	1.0	106	108	1.9				70 - 130	20
4-Methyl-2-pentanone	ND	5.0	81	80	1.2				70 - 130	20
Acetone	ND	5.0	77	83	7.5				70 - 130	20
Acrylonitrile	ND	5.0	80	79	1.3				70 - 130	20
Benzene	ND	0.70	99	99	0.0				70 - 130	20
Bromobenzene	ND	1.0	107	108	0.9				70 - 130	20
Bromochloromethane	ND	1.0	104	106	1.9				70 - 130	20
Bromodichloromethane	ND	0.50	101	103	2.0				70 - 130	20
Bromoform	ND	1.0	112	109	2.7				70 - 130	20
Bromomethane	ND	1.0	78	86	9.8				70 - 130	20
Carbon Disulfide	ND	1.0	92	94	2.2				70 - 130	20
Carbon tetrachloride	ND	1.0	105	105	0.0				70 - 130	20
Chlorobenzene	ND	1.0	107	105	1.9				70 - 130	20
Chloroethane	ND	1.0	90	94	4.3				70 - 130	20
Chloroform	ND	1.0	93	97	4.2				70 - 130	20
Chloromethane	ND	1.0	77	79	2.6				70 - 130	20
cis-1,2-Dichloroethene	ND	1.0	93	95	2.1				70 - 130	20
cis-1,3-Dichloropropene	ND	0.40	100	102	2.0				70 - 130	20
Dibromochloromethane	ND	0.50	113	112	0.9				70 - 130	20
Dibromomethane	ND	1.0	96	97	1.0				70 - 130	20
Dichlorodifluoromethane	ND	1.0	101	102	1.0				70 - 130	20
Ethyl ether	ND	1.0	85	85	0.0				70 - 130	20
Ethyl tert-butyl ether	ND	1.0	90	92	2.2				70 - 130	20
Ethylbenzene	ND	1.0	107	104	2.8				70 - 130	20
Hexachlorobutadiene	ND	0.40	110	114	3.6				70 - 130	20

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Isopropylbenzene	ND	1.0	106	110	3.7				70 - 130	20	
m&p-Xylene	ND	1.0	106	106	0.0				70 - 130	20	
Methyl ethyl ketone	ND	5.0	82	76	7.6				70 - 130	20	
Methyl t-butyl ether (MTBE)	ND	1.0	92	95	3.2				70 - 130	20	
Methylene chloride	ND	1.0	88	90	2.2				70 - 130	20	
Naphthalene	ND	1.0	102	103	1.0				70 - 130	20	
n-Butylbenzene	ND	1.0	105	106	0.9				70 - 130	20	
n-Propylbenzene	ND	1.0	108	107	0.9				70 - 130	20	
o-Xylene	ND	1.0	107	103	3.8				70 - 130	20	
p-Isopropyltoluene	ND	1.0	106	108	1.9				70 - 130	20	
sec-Butylbenzene	ND	1.0	105	107	1.9				70 - 130	20	
Styrene	ND	1.0	108	102	5.7				70 - 130	20	
tert-amyl methyl ether	ND	1.0	97	98	1.0				70 - 130	20	
tert-Butylbenzene	ND	1.0	105	109	3.7				70 - 130	20	
Tetrachloroethene	ND	1.0	103	103	0.0				70 - 130	20	
Tetrahydrofuran (THF)	ND	2.5	80	86	7.2				70 - 130	20	
Toluene	ND	1.0	97	99	2.0				70 - 130	20	
trans-1,2-Dichloroethene	ND	1.0	93	96	3.2				70 - 130	20	
trans-1,3-Dichloropropene	ND	0.40	98	101	3.0				70 - 130	20	
trans-1,4-dichloro-2-butene	ND	5.0	80	83	3.7				70 - 130	20	
Trichloroethene	ND	1.0	101	101	0.0				70 - 130	20	
Trichlorofluoromethane	ND	1.0	96	99	3.1				70 - 130	20	
Trichlorotrifluoroethane	ND	1.0	100	100	0.0				70 - 130	20	
Vinyl chloride	ND	1.0	85	87	2.3				70 - 130	20	
% 1,2-dichlorobenzene-d4	99	%	100	101	1.0				70 - 130	20	
% Bromofluorobenzene	95	%	102	101	1.0				70 - 130	20	
% Dibromofluoromethane	106	%	101	102	1.0				70 - 130	20	
% Toluene-d8	97	%	97	96	1.0				70 - 130	20	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 736827 (ug/kg), QC Sample No: CQ97489 (CQ97179, CQ97180, CQ97183)

Volatiles - Sediment (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	97	98	1.0	91	94	3.2	70 - 130	20	
1,1,1-Trichloroethane	ND	5.0	101	101	0.0	98	100	2.0	70 - 130	20	
1,1,2,2-Tetrachloroethane	ND	3.0	87	88	1.1	85	87	2.3	70 - 130	20	
1,1,2-Trichloroethane	ND	5.0	98	100	2.0	96	99	3.1	70 - 130	20	
1,1-Dichloroethane	ND	5.0	95	97	2.1	94	97	3.1	70 - 130	20	
1,1-Dichloroethene	ND	5.0	98	99	1.0	95	97	2.1	70 - 130	20	
1,1-Dichloropropene	ND	5.0	100	100	0.0	98	97	1.0	70 - 130	20	
1,2,3-Trichlorobenzene	ND	5.0	96	97	1.0	65	67	3.0	70 - 130	20	m
1,2,3-Trichloropropane	ND	5.0	93	93	0.0	88	90	2.2	70 - 130	20	
1,2,4-Trichlorobenzene	ND	5.0	99	97	2.0	69	67	2.9	70 - 130	20	m
1,2,4-Trimethylbenzene	ND	1.0	95	96	1.0	87	87	0.0	70 - 130	20	
1,2-Dibromo-3-chloropropane	ND	5.0	103	102	1.0	89	91	2.2	70 - 130	20	
1,2-Dibromoethane	ND	5.0	97	97	0.0	94	94	0.0	70 - 130	20	
1,2-Dichlorobenzene	ND	5.0	90	91	1.1	76	78	2.6	70 - 130	20	
1,2-Dichloroethane	ND	5.0	99	101	2.0	95	98	3.1	70 - 130	20	
1,2-Dichloropropane	ND	5.0	91	92	1.1	91	91	0.0	70 - 130	20	
1,3,5-Trimethylbenzene	ND	1.0	95	95	0.0	87	87	0.0	70 - 130	20	
1,3-Dichlorobenzene	ND	5.0	90	90	0.0	78	78	0.0	70 - 130	20	

QA/QC Data

SDG I.D.: GCQ97179

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,3-Dichloropropane	ND	5.0	92	92	0.0	90	92	2.2	70 - 130	20	
1,4-Dichlorobenzene	ND	5.0	90	90	0.0	77	77	0.0	70 - 130	20	
1,4-dioxane	ND	100	91	86	5.6	99	100	1.0	70 - 130	20	
2,2-Dichloropropane	ND	5.0	100	100	0.0	98	100	2.0	70 - 130	20	
2-Chlorotoluene	ND	5.0	89	91	2.2	82	81	1.2	70 - 130	20	
2-Hexanone	ND	25	89	90	1.1	75	77	2.6	70 - 130	20	
2-Isopropyltoluene	ND	5.0	96	96	0.0	86	87	1.2	70 - 130	20	
4-Chlorotoluene	ND	5.0	89	89	0.0	79	81	2.5	70 - 130	20	
4-Methyl-2-pentanone	ND	25	98	98	0.0	93	96	3.2	70 - 130	20	
Acetone	ND	10	99	98	1.0	69	76	9.7	70 - 130	20	m
Acrylonitrile	ND	5.0	93	96	3.2	87	91	4.5	70 - 130	20	
Benzene	ND	1.0	95	96	1.0	95	96	1.0	70 - 130	20	
Bromobenzene	ND	5.0	87	89	2.3	81	82	1.2	70 - 130	20	
Bromochloromethane	ND	5.0	95	96	1.0	95	98	3.1	70 - 130	20	
Bromodichloromethane	ND	5.0	102	103	1.0	97	100	3.0	70 - 130	20	
Bromoform	ND	5.0	108	109	0.9	97	101	4.0	70 - 130	20	
Bromomethane	ND	5.0	119	122	2.5	128	125	2.4	70 - 130	20	
Carbon Disulfide	ND	5.0	101	101	0.0	89	92	3.3	70 - 130	20	
Carbon tetrachloride	ND	5.0	107	112	4.6	103	107	3.8	70 - 130	20	
Chlorobenzene	ND	5.0	90	90	0.0	86	86	0.0	70 - 130	20	
Chloroethane	ND	5.0	99	101	2.0	105	108	2.8	70 - 130	20	
Chloroform	ND	5.0	98	100	2.0	96	98	2.1	70 - 130	20	
Chloromethane	ND	5.0	94	94	0.0	94	95	1.1	70 - 130	20	
cis-1,2-Dichloroethene	ND	5.0	95	97	2.1	97	98	1.0	70 - 130	20	
cis-1,3-Dichloropropene	ND	5.0	100	102	2.0	96	98	2.1	70 - 130	20	
Dibromochloromethane	ND	3.0	101	101	0.0	95	97	2.1	70 - 130	20	
Dibromomethane	ND	5.0	95	96	1.0	93	96	3.2	70 - 130	20	
Dichlorodifluoromethane	ND	5.0	103	103	0.0	103	104	1.0	70 - 130	20	
Diethyl ether	ND	5.0	87	88	1.1	85	86	1.2	70 - 130	20	
Ethyl tert-butyl ether	ND	5.0	98	101	3.0	101	103	2.0	70 - 130	20	
Ethylbenzene	ND	1.0	92	92	0.0	89	89	0.0	70 - 130	20	
Hexachlorobutadiene	ND	5.0	97	94	3.1	71	70	1.4	70 - 130	20	
Isopropylbenzene	ND	1.0	90	91	1.1	86	86	0.0	70 - 130	20	
m&p-Xylene	ND	2.0	94	94	0.0	91	90	1.1	70 - 130	20	
Methyl ethyl ketone	ND	5.0	91	92	1.1	85	90	5.7	70 - 130	20	
Methyl t-butyl ether (MTBE)	ND	1.0	98	99	1.0	100	102	2.0	70 - 130	20	
Methylene chloride	ND	5.0	91	92	1.1	91	93	2.2	70 - 130	20	
Naphthalene	ND	5.0	98	100	2.0	72	76	5.4	70 - 130	20	
n-Butylbenzene	ND	1.0	96	95	1.0	83	81	2.4	70 - 130	20	
n-Propylbenzene	ND	1.0	90	91	1.1	86	86	0.0	70 - 130	20	
o-Xylene	ND	2.0	95	95	0.0	91	90	1.1	70 - 130	20	
p-Isopropyltoluene	ND	1.0	97	97	0.0	86	85	1.2	70 - 130	20	
sec-Butylbenzene	ND	1.0	95	94	1.1	86	86	0.0	70 - 130	20	
Styrene	ND	5.0	96	96	0.0	89	89	0.0	70 - 130	20	
tert-amyl methyl ether	ND	5.0	97	99	2.0	100	101	1.0	70 - 130	20	
tert-Butylbenzene	ND	1.0	94	94	0.0	87	88	1.1	70 - 130	20	
Tetrachloroethene	ND	5.0	101	101	0.0	98	97	1.0	70 - 130	20	
Tetrahydrofuran (THF)	ND	5.0	98	100	2.0	101	103	2.0	70 - 130	20	
Toluene	ND	1.0	96	96	0.0	94	95	1.1	70 - 130	20	
trans-1,2-Dichloroethene	ND	5.0	97	98	1.0	99	100	1.0	70 - 130	20	
trans-1,3-Dichloropropene	ND	5.0	104	104	0.0	97	99	2.0	70 - 130	20	
trans-1,4-dichloro-2-butene	ND	5.0	92	94	2.2	87	89	2.3	70 - 130	20	
Trichloroethene	ND	5.0	95	95	0.0	92	94	2.2	70 - 130	20	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Trichlorofluoromethane	ND	5.0	96	98	2.1	101	102	1.0	70 - 130	20	
Trichlorotrifluoroethane	ND	5.0	106	104	1.9	106	106	0.0	70 - 130	20	
Vinyl chloride	ND	5.0	94	94	0.0	94	96	2.1	70 - 130	20	
% 1,2-dichlorobenzene-d4	101	%	98	99	1.0	98	99	1.0	70 - 130	20	
% Bromofluorobenzene	100	%	101	102	1.0	101	100	1.0	70 - 130	20	
% Dibromofluoromethane	107	%	108	105	2.8	106	109	2.8	70 - 130	20	
% Toluene-d8	104	%	105	105	0.0	104	105	1.0	70 - 130	20	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 736827H (ug/kg), QC Sample No: CQ97489 50X (CQ97184 (50X))

Volatiles - Sediment (High Level)

1,1,1,2-Tetrachloroethane	ND	250	102	97	5.0	99	102	3.0	70 - 130	20	
1,1,1-Trichloroethane	ND	250	103	98	5.0	105	106	0.9	70 - 130	20	
1,1,2,2-Tetrachloroethane	ND	250	94	93	1.1	97	100	3.0	70 - 130	20	
1,1,2-Trichloroethane	ND	250	106	104	1.9	107	109	1.9	70 - 130	20	
1,1-Dichloroethane	ND	250	100	97	3.0	104	105	1.0	70 - 130	20	
1,1-Dichloroethene	ND	250	68	68	0.0	91	83	9.2	70 - 130	20	l
1,1-Dichloropropene	ND	250	106	103	2.9	110	111	0.9	70 - 130	20	
1,2,3-Trichlorobenzene	ND	250	111	112	0.9	112	114	1.8	70 - 130	20	
1,2,3-Trichloropropane	ND	250	96	95	1.0	98	103	5.0	70 - 130	20	
1,2,4-Trichlorobenzene	ND	250	113	113	0.0	115	117	1.7	70 - 130	20	
1,2,4-Trimethylbenzene	ND	250	106	105	0.9	110	113	2.7	70 - 130	20	
1,2-Dibromo-3-chloropropane	ND	250	103	98	5.0	99	104	4.9	70 - 130	20	
1,2-Dibromoethane	ND	250	102	101	1.0	104	105	1.0	70 - 130	20	
1,2-Dichlorobenzene	ND	250	101	100	1.0	103	105	1.9	70 - 130	20	
1,2-Dichloroethane	ND	250	103	99	4.0	103	104	1.0	70 - 130	20	
1,2-Dichloropropane	ND	250	99	97	2.0	101	102	1.0	70 - 130	20	
1,3,5-Trimethylbenzene	ND	250	105	104	1.0	108	111	2.7	70 - 130	20	
1,3-Dichlorobenzene	ND	250	101	102	1.0	103	107	3.8	70 - 130	20	
1,3-Dichloropropane	ND	250	100	96	4.1	99	101	2.0	70 - 130	20	
1,4-Dichlorobenzene	ND	250	101	101	0.0	105	107	1.9	70 - 130	20	
1,4-dioxane	ND	5000	97	91	6.4	108	112	3.6	70 - 130	20	
2,2-Dichloropropane	ND	250	101	98	3.0	105	106	0.9	70 - 130	20	
2-Chlorotoluene	ND	250	100	100	0.0	103	105	1.9	70 - 130	20	
2-Hexanone	ND	1300	97	92	5.3	98	101	3.0	70 - 130	20	
2-Isopropyltoluene	ND	250	105	104	1.0	109	112	2.7	70 - 130	20	
4-Chlorotoluene	ND	250	99	99	0.0	103	106	2.9	70 - 130	20	
4-Methyl-2-pentanone	ND	1300	102	98	4.0	108	109	0.9	70 - 130	20	
Acetone	ND	500	65	65	0.0	40	62	43.1	70 - 130	20	l,m,r
Acrylonitrile	ND	250	101	99	2.0	104	112	7.4	70 - 130	20	
Benzene	ND	250	102	101	1.0	106	108	1.9	70 - 130	20	
Bromobenzene	ND	250	97	97	0.0	100	102	2.0	70 - 130	20	
Bromochloromethane	ND	250	102	100	2.0	104	106	1.9	70 - 130	20	
Bromodichloromethane	ND	250	105	101	3.9	104	105	1.0	70 - 130	20	
Bromoform	ND	250	106	102	3.8	99	104	4.9	70 - 130	20	
Bromomethane	ND	250	118	123	4.1	120	132	9.5	70 - 130	20	m
Carbon Disulfide	ND	250	66	66	0.0	87	80	8.4	70 - 130	20	l
Carbon tetrachloride	ND	250	105	102	2.9	104	107	2.8	70 - 130	20	
Chlorobenzene	ND	250	98	96	2.1	100	102	2.0	70 - 130	20	
Chloroethane	ND	250	95	96	1.0	111	112	0.9	70 - 130	20	
Chloroform	ND	250	103	100	3.0	106	107	0.9	70 - 130	20	

QA/QC Data

SDG I.D.: GCQ97179

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Chloromethane	ND	250	100	98	2.0	99	106	6.8	70 - 130	20
cis-1,2-Dichloroethene	ND	250	103	102	1.0	108	109	0.9	70 - 130	20
cis-1,3-Dichloropropene	ND	250	106	104	1.9	107	108	0.9	70 - 130	20
Dibromochloromethane	ND	150	105	100	4.9	101	102	1.0	70 - 130	20
Dibromomethane	ND	250	101	100	1.0	102	104	1.9	70 - 130	20
Dichlorodifluoromethane	ND	250	108	105	2.8	110	113	2.7	70 - 130	20
Diethyl ether	ND	250	61	62	1.6	78	70	10.8	70 - 130	20
Ethyl tert-butyl ether	ND	250	107	105	1.9	114	114	0.0	70 - 130	20
Ethylbenzene	ND	250	100	98	2.0	104	106	1.9	70 - 130	20
Hexachlorobutadiene	ND	250	110	111	0.9	115	117	1.7	70 - 130	20
Isopropylbenzene	ND	250	100	98	2.0	103	107	3.8	70 - 130	20
m&p-Xylene	ND	250	103	102	1.0	110	110	0.0	70 - 130	20
Methyl ethyl ketone	ND	250	100	98	2.0	99	105	5.9	70 - 130	20
Methyl t-butyl ether (MTBE)	ND	250	103	100	3.0	101	105	3.9	70 - 130	20
Methylene chloride	ND	250	92	90	2.2	77	93	18.8	70 - 130	20
Naphthalene	ND	250	107	107	0.0	107	111	3.7	70 - 130	20
n-Butylbenzene	ND	250	107	107	0.0	111	116	4.4	70 - 130	20
n-Propylbenzene	ND	250	101	101	0.0	104	109	4.7	70 - 130	20
o-Xylene	ND	250	104	102	1.9	108	108	0.0	70 - 130	20
p-Isopropyltoluene	ND	250	108	107	0.9	111	115	3.5	70 - 130	20
sec-Butylbenzene	ND	250	103	103	0.0	108	111	2.7	70 - 130	20
Styrene	ND	250	105	103	1.9	108	109	0.9	70 - 130	20
tert-amyl methyl ether	ND	250	106	103	2.9	108	108	0.0	70 - 130	20
tert-Butylbenzene	ND	250	102	102	0.0	106	109	2.8	70 - 130	20
Tetrachloroethene	ND	250	110	107	2.8	113	116	2.6	70 - 130	20
Tetrahydrofuran (THF)	ND	250	112	108	3.6	116	120	3.4	70 - 130	20
Toluene	ND	250	103	102	1.0	107	109	1.9	70 - 130	20
trans-1,2-Dichloroethene	ND	250	101	98	3.0	97	105	7.9	70 - 130	20
trans-1,3-Dichloropropene	ND	250	108	105	2.8	108	109	0.9	70 - 130	20
trans-1,4-dichloro-2-butene	ND	250	99	96	3.1	98	101	3.0	70 - 130	20
Trichloroethene	ND	250	103	101	2.0	106	107	0.9	70 - 130	20
Trichlorofluoromethane	ND	250	83	83	0.0	107	102	4.8	70 - 130	20
Trichlorotrifluoroethane	ND	250	68	68	0.0	87	80	8.4	70 - 130	20
Vinyl chloride	ND	250	95	95	0.0	96	105	9.0	70 - 130	20
% 1,2-dichlorobenzene-d4	99	%	97	98	1.0	98	99	1.0	70 - 130	20
% Bromofluorobenzene	98	%	101	100	1.0	100	99	1.0	70 - 130	20
% Dibromofluoromethane	103	%	105	107	1.9	103	103	0.0	70 - 130	20
% Toluene-d8	104	%	105	104	1.0	105	104	1.0	70 - 130	20

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 737001 (ug/kg), QC Sample No: CQ98820 (CQ97181)

Volatiles - Sediment (Low Level)

1,1,1,2-Tetrachloroethane	ND	5.0	95	91	4.3	93	96	3.2	70 - 130	20
1,1,1-Trichloroethane	ND	5.0	93	88	5.5	93	94	1.1	70 - 130	20
1,1,2,2-Tetrachloroethane	ND	3.0	99	96	3.1	99	103	4.0	70 - 130	20
1,1,2-Trichloroethane	ND	5.0	95	93	2.1	94	98	4.2	70 - 130	20
1,1-Dichloroethane	ND	5.0	91	88	3.4	93	93	0.0	70 - 130	20
1,1-Dichloroethene	ND	5.0	97	92	5.3	92	91	1.1	70 - 130	20
1,1-Dichloropropene	ND	5.0	96	90	6.5	96	96	0.0	70 - 130	20
1,2,3-Trichlorobenzene	ND	5.0	96	91	5.3	75	74	1.3	70 - 130	20
1,2,3-Trichloropropane	ND	5.0	89	86	3.4	91	95	4.3	70 - 130	20

QA/QC Data

SDG I.D.: GCQ97179

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2,4-Trichlorobenzene	ND	5.0	94	89	5.5	78	75	3.9	70 - 130	20
1,2,4-Trimethylbenzene	ND	1.0	95	90	5.4	95	93	2.1	70 - 130	20
1,2-Dibromo-3-chloropropane	ND	5.0	97	93	4.2	93	98	5.2	70 - 130	20
1,2-Dibromoethane	ND	5.0	95	90	5.4	94	96	2.1	70 - 130	20
1,2-Dichlorobenzene	ND	5.0	98	93	5.2	95	94	1.1	70 - 130	20
1,2-Dichloroethane	ND	5.0	93	90	3.3	92	94	2.2	70 - 130	20
1,2-Dichloropropane	ND	5.0	94	90	4.3	95	97	2.1	70 - 130	20
1,3,5-Trimethylbenzene	ND	1.0	95	88	7.7	95	94	1.1	70 - 130	20
1,3-Dichlorobenzene	ND	5.0	95	89	6.5	91	90	1.1	70 - 130	20
1,3-Dichloropropane	ND	5.0	93	90	3.3	94	97	3.1	70 - 130	20
1,4-Dichlorobenzene	ND	5.0	98	92	6.3	94	92	2.2	70 - 130	20
1,4-dioxane	ND	100	94	87	7.7	104	115	10.0	70 - 130	20
2,2-Dichloropropane	ND	5.0	91	86	5.6	88	88	0.0	70 - 130	20
2-Chlorotoluene	ND	5.0	97	91	6.4	97	97	0.0	70 - 130	20
2-Hexanone	ND	25	92	90	2.2	90	94	4.3	70 - 130	20
2-Isopropyltoluene	ND	5.0	99	91	8.4	97	96	1.0	70 - 130	20
4-Chlorotoluene	ND	5.0	96	89	7.6	95	93	2.1	70 - 130	20
4-Methyl-2-pentanone	ND	25	95	94	1.1	91	98	7.4	70 - 130	20
Acetone	ND	10	85	86	1.2	77	86	11.0	70 - 130	20
Acrylonitrile	ND	5.0	89	89	0.0	85	89	4.6	70 - 130	20
Benzene	ND	1.0	95	90	5.4	96	97	1.0	70 - 130	20
Bromobenzene	ND	5.0	98	92	6.3	100	99	1.0	70 - 130	20
Bromochloromethane	ND	5.0	91	88	3.4	90	91	1.1	70 - 130	20
Bromodichloromethane	ND	5.0	94	90	4.3	92	94	2.2	70 - 130	20
Bromoform	ND	5.0	90	89	1.1	85	89	4.6	70 - 130	20
Bromomethane	ND	5.0	98	89	9.6	99	97	2.0	70 - 130	20
Carbon Disulfide	ND	5.0	97	91	6.4	90	89	1.1	70 - 130	20
Carbon tetrachloride	ND	5.0	91	86	5.6	88	89	1.1	70 - 130	20
Chlorobenzene	ND	5.0	96	91	5.3	98	98	0.0	70 - 130	20
Chloroethane	ND	5.0	104	96	8.0	105	107	1.9	70 - 130	20
Chloroform	ND	5.0	89	85	4.6	89	89	0.0	70 - 130	20
Chloromethane	ND	5.0	98	93	5.2	95	95	0.0	70 - 130	20
cis-1,2-Dichloroethene	ND	5.0	91	88	3.4	92	93	1.1	70 - 130	20
cis-1,3-Dichloropropene	ND	5.0	97	94	3.1	96	98	2.1	70 - 130	20
Dibromochloromethane	ND	3.0	96	92	4.3	94	97	3.1	70 - 130	20
Dibromomethane	ND	5.0	96	93	3.2	94	97	3.1	70 - 130	20
Dichlorodifluoromethane	ND	5.0	98	91	7.4	86	84	2.4	70 - 130	20
Diethyl ether	ND	5.0	94	92	2.2	90	94	4.3	70 - 130	20
Ethyl tert-butyl ether	ND	5.0	90	89	1.1	94	95	1.1	70 - 130	20
Ethylbenzene	ND	1.0	96	90	6.5	96	97	1.0	70 - 130	20
Hexachlorobutadiene	ND	5.0	94	86	8.9	74	71	4.1	70 - 130	20
Isopropylbenzene	ND	1.0	97	91	6.4	99	99	0.0	70 - 130	20
m&p-Xylene	ND	2.0	93	89	4.4	94	93	1.1	70 - 130	20
Methyl ethyl ketone	ND	5.0	85	82	3.6	79	85	7.3	70 - 130	20
Methyl t-butyl ether (MTBE)	ND	1.0	81	88	8.3	89	91	2.2	70 - 130	20
Methylene chloride	ND	5.0	92	86	6.7	97	96	1.0	70 - 130	20
Naphthalene	ND	5.0	98	95	3.1	87	88	1.1	70 - 130	20
n-Butylbenzene	ND	1.0	98	91	7.4	91	88	3.4	70 - 130	20
n-Propylbenzene	ND	1.0	96	89	7.6	98	96	2.1	70 - 130	20
o-Xylene	ND	2.0	96	91	5.3	96	96	0.0	70 - 130	20
p-Isopropyltoluene	ND	1.0	96	89	7.6	94	92	2.2	70 - 130	20
sec-Butylbenzene	ND	1.0	96	88	8.7	95	93	2.1	70 - 130	20
Styrene	ND	5.0	92	88	4.4	91	91	0.0	70 - 130	20

QA/QC Data

SDG I.D.: GCQ97179

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
tert-amyl methyl ether	ND	5.0	92	91	1.1	94	97	3.1	70 - 130	20
tert-Butylbenzene	ND	1.0	95	89	6.5	98	96	2.1	70 - 130	20
Tetrachloroethene	ND	5.0	95	91	4.3	93	92	1.1	70 - 130	20
Tetrahydrofuran (THF)	ND	5.0	87	88	1.1	84	92	9.1	70 - 130	20
Toluene	ND	1.0	98	93	5.2	99	98	1.0	70 - 130	20
trans-1,2-Dichloroethene	ND	5.0	83	78	6.2	96	97	1.0	70 - 130	20
trans-1,3-Dichloropropene	ND	5.0	98	96	2.1	94	98	4.2	70 - 130	20
trans-1,4-dichloro-2-butene	ND	5.0	100	97	3.0	95	102	7.1	70 - 130	20
Trichloroethene	ND	5.0	94	89	5.5	95	96	1.0	70 - 130	20
Trichlorofluoromethane	ND	5.0	96	90	6.5	93	93	0.0	70 - 130	20
Trichlorotrifluoroethane	ND	5.0	97	91	6.4	91	89	2.2	70 - 130	20
Vinyl chloride	ND	5.0	95	89	6.5	89	89	0.0	70 - 130	20
% 1,2-dichlorobenzene-d4	96	%	100	101	1.0	101	100	1.0	70 - 130	20
% Bromofluorobenzene	99	%	100	99	1.0	99	99	0.0	70 - 130	20
% Dibromofluoromethane	96	%	92	92	0.0	90	90	0.0	70 - 130	20
% Toluene-d8	90	%	99	99	0.0	99	98	1.0	70 - 130	20

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
June 27, 2024

Thursday, June 27, 2024

Criteria: CT: RC

State: CT

Sample Criteria Exceedances Report

GCQ97179 - BIOHABITATS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CQ97181	$8270-SMR	Benzo(b)fluoranthene	CT / RSR DEC RES (mg/kg) / Semivolatiles	1100	1000	1000	1000	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Analysis Comments

June 27, 2024 SDG I.D.: GCQ97179

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

Herbicide Narration

AU-ECD12 06/21/24-1: CQ97182

The following Continuing Calibration compounds did not meet % deviation criteria:
Samples: CQ97182
Preceding CC 621B003 - None.
Succeeding CC 621B015 - 2,4-DB (12) 22%H (15%), Dicamba (4) 17%H (15%), Dinoseb 29%H (15%)

PCB Narration

AU-ECD7 06/25/24-1: CQ97179, CQ97180, CQ97181

The following Continuing Calibration compounds did not meet % deviation criteria:
Samples: CQ97179, CQ97180, CQ97181
Preceding CC 625A005 - PCB 1260 23%H (%)
Succeeding CC 625A015 - PCB 1260 21%H (%)

SVOA Narration

CHEM19 06/24/24-2: CQ97179, CQ97180, CQ97181

For 8270 full list, the DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.
For 8270 BN list, benzidine peak tailing was evaluated in the DFTPP tune and was found to be in control.

The following Initial Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.049 (0.1), Hexachlorobenzene 0.085 (0.1)
The following Initial Calibration compounds did not meet minimum response factors: 2-Nitrophenol 0.049 (0.05)

The following Continuing Calibration compounds did not meet recommended response factors: 2-Nitrophenol 0.056 (0.1), Hexachlorobenzene 0.078 (0.1)
The following Continuing Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

VOA Narration

CHEM03 06/19/24-2: CQ97179, CQ97180, CQ97183, CQ97184

The following Initial Calibration compounds did not meet RSD% criteria: Acetone 24% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

Cooler: Yes ☒ No ☐
Coolant: IPK ☒ ICE ☒ No ☐
Temp 6.0° C Pg of

PHOENIX
Environmental Laboratories, Inc.

CT/MA/RI CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: makrina@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

Data Delivery/Contact Options:
☐ Fax: _____
☐ Phone: _____
☐ Email: _____

Customer: Josh Wilson
Address: Biohabitats
363 Main St. Suite 506
Middletown, CT 06457

Project: Taylors Pond Dam
Report to: Josh Wilson
Invoice to: "
Quote #

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: _____ Date: 6/17/24

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	*MS/MSD (May be billable at analysis unit rate)	PP13	VOC (8260)	SVOC (8270)	PCB (8082A)	Pest (8081B)	Herb (8151)	TOC (9060)	pH (9045D)	TCLP Solids (2540G)	Grain Size (ASTM D422)	GL Amber 8 oz. [X] w/H3PO4 [ ] NAHSO4	Soil VOA Vials [ ] methanol [ ] 4% H2O	GL Soil container (32) oz	GL Soil container (8) oz	40 ml VOA Vial [ ] As is [X] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [X] 250ml [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml [ ] 1000ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
97179	TPSD-01	SE	6/17/24	1125	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1	3	1	1								
97180	TPSD-02	↓	↓	1220	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1	3	1	1								
97181	TPSD-03	↓	↓	1310	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1	3	1	1								
97182	Equip Blanks	DI	6/17/24	1430												1				3	5	1		1			
97183	Trip Blank LL	↓	↓	1125													3										
97184	HL																										

Relinquished by:	Accepted by:	Date:	Time:
Client	Phoenix Drop-off	6/17/24	1826
	Courier	6/17/24	18:32

Comments, Special Requirements or Regulations:
Ecological Risk Values Detection limit
Res DEC

Turnaround Time:
☐ 1 Day* ☐ 2 Days* ☐ 3 Days* ☐ 4 Days* ☐ 5 Days*
☒ Standard ☐ Other _____

RI
☐ RES DEC
☐ I/C DEC
☐ GA Leachability
☐ GB Leachability
☐ GA -GW Objectives
☐ GB -GW Objectives
☒ Other

CT
☐ RCP Cert
☐ GWPC
☐ SWPC
☐ GA PMC
☐ GB PMC
☐ SWPC
☒ RES DEC
☐ I/C DEC

MA
☐ MCP Certification
☐ GW-1 ☐ RCS-1 / RCGW-1
☐ GW-2 ☐ RCS-2 / RCGW-2
☐ GW-3 ☐ S-1 Calc.
☐ S-1
☐ S-2 ☐ _____
☐ S-3
☐ SW Protection

Data Format
☒ Excel
☒ PDF
☐ GIS/Key
☐ EQuIS
☐ Other

Data Package
☐ Tier II Checklist*
☐ Full Data Package*
☒ Phoenix Std
☐ Other

***MS/MSD are considered site samples and will be billed as such in accordance with the prices quoted.**

*** SURCHARGES MAY APPLY**

State where samples were collected: CT

*** SURCHARGE APPLIES**

Form PEL-126 Rev. 9/23

GRAIN SIZE DISTRIBUTION TEST DATA

6/21/2024

Client: : Phoenix Environmental Laboratories, Inc
Project: : GCQ 97179
Project Number: : GCQ 97179
Location: Onsite
Depth: n/A
Sample Number: 499-24
Material Description: Marine Sediments
Liquid Limit: N/A
Plastic Limit: N/A
USCS Classification: N/A
AASHTO Classification: N/A
Test Date: 06/21/2024
Testing Remarks: ASTM C 117, ASTM C 136, ASTM D 6913 (Sample ID= CQ 97179)
Tested by: IC
Checked by: HC
Test Date: 06/21/2024 **Technician:** IC
Test remarks: ASTM C 117, ASTM C 136, ASTM D 6913 (Sample ID= CQ 97179)

Sieve Test Data (ASTM C117 & C136)

Post #200 Wash Test Weights (grams): Dry Specimen+Tare = 3.00
Tare Wt. = 0.00

Minus #200 from wash = 91.1%

Specimen Weights
Dry specimen+tare (gms.) = 33.60
Tare (gms.) = 0.00

Cumulative pan tare (gms.) = 0.00

Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Passing	Percent Retained
#4	0.00	100.0	0.0
#10	0.00	100.0	0.0
#40	1.50	95.5	4.5
#60	2.00	94.0	6.0
#100	2.20	93.5	6.5
#200	2.80	91.7	8.3

Pan + tare = 0 Tare = 0 Loss during sieving = 0.6%
Total loss (wash+pan/specimen) = 91.1%

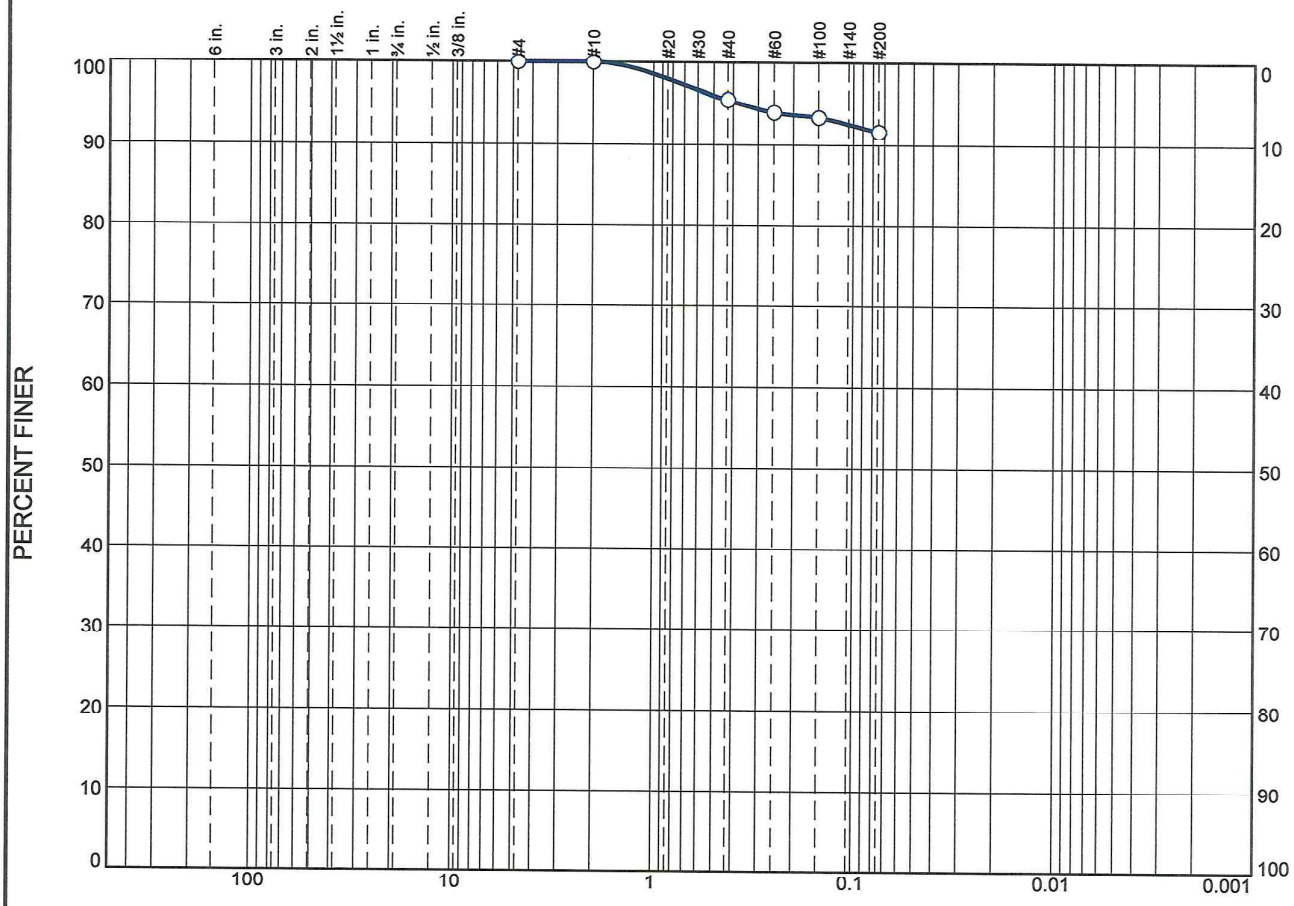
Results

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	0.0	4.5	3.8	8.3			91.7

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
											0.3556

Fineness Modulus
0.16

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.0	4.5	3.8	91.7	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A								

MATERIAL DESCRIPTION	TEST DATE	USCS	NM
○ Marine Sediments	06/21/2024	N/A	

Project No. : GCQ 97179 **Client:** : Phoenix Environmental Laboratories, Inc

Project: : GCQ 97179

○ **Source of Sample:** Onsite **Depth:** n/A **Sample Number:** 499-24

Tri State Materials Testing Lab

Berlin, Connecticut

Remarks:

○ ASTM C 117, ASTM C 136, ASTM D 6913 (Sample ID= CC 97179)

Figure

Tested By: IC **Checked By:** HC

GRAIN SIZE DISTRIBUTION TEST DATA

6/21/2024

Client: : Phoenix Environmental Laboratories, Inc
Project: : GCQ 97179
Project Number: : GCQ 97179
Location: Onsite
Depth: N/A
Sample Number: 500-24
Material Description: Marine Sediments
Liquid Limit: N/A
Plastic Limit: N/A
USCS Classification: N/A
AASHTO Classification: N/A
Test Date: 06/21/2024
Testing Remarks: ASTM C 117, ASTM C 136, ASTM D 6913 (Sample ID= CQ 97180)
Tested by: IC
Checked by: HC
Test Date: 06/21/2024 **Technician:** IC
Test remarks: ASTM C 117, ASTM C 136, ASTM D 6913 (Sample ID= CQ 97180)

Sieve Test Data (ASTM C117 & C136)

Post #200 Wash Test Weights (grams): Dry Specimen+Tare = 99.90
Tare Wt. = 0.00

Minus #200 from wash = 35.6%

Specimen Weights
Dry specimen+tare (gms.) = 155.20
Tare (gms.) = 0.00

Cumulative pan tare (gms.) = 0.00

Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Passing	Percent Retained
3/4"	0.00	100.0	0.0
1/4"	0.80	99.5	0.5
#4	1.20	99.2	0.8
#10	2.40	98.5	1.5
#40	24.30	84.3	15.7
#60	51.10	67.1	32.9
#100	82.00	47.2	52.8
#200	99.40	36.0	64.0

Pan + tare = 0 Tare = 0 Loss during sieving = 0.3%
Total loss (wash+pan/specimen) = 35.6%

Results

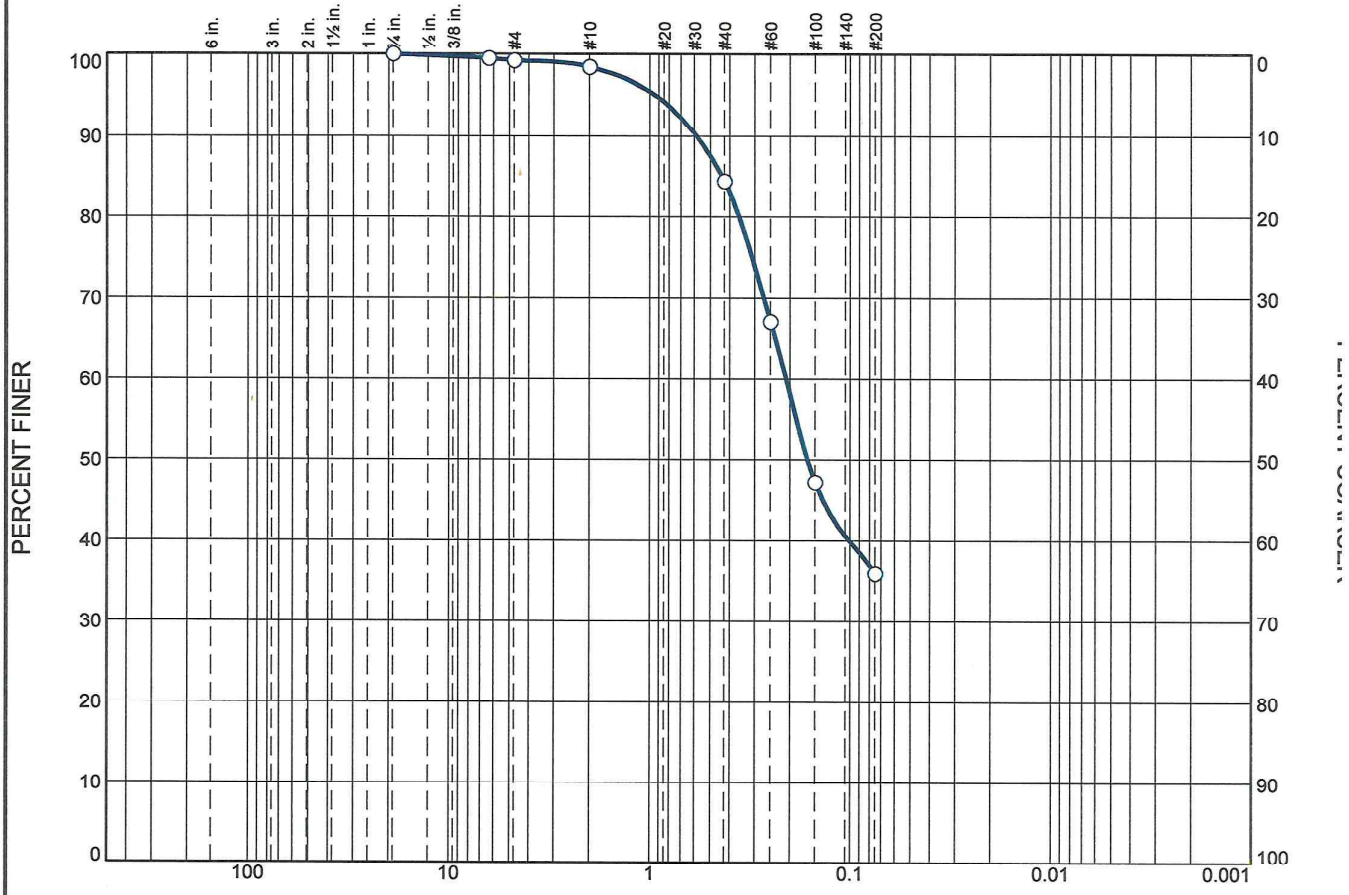
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.8	0.8	0.7	14.2	48.3	63.2			36.0

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
					0.1015	0.1640	0.2096	0.3603	0.4389	0.5870	0.9316

Fineness Modulus

0.95

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.8	0.7	14.2	48.3	36.0	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	0.4389	0.2096	0.1640					

MATERIAL DESCRIPTION	TEST DATE	USCS	NM
○ Marine Sediments	06/21/2024	N/A	

Project No. : GCQ 97179 **Client:** : Phoenix Environmental Laboratories, Inc

Project: : GCQ 97179

○ **Source of Sample:** Onsite **Depth:** N/A **Sample Number:** 500-24

Remarks:

○ ASTM C 117, ASTM C 136, ASTM D 6913 (Sample ID= C(97180)

Tri State Materials Testing Lab

Berlin, Connecticut

Figure

Tested By: IC **Checked By:** HC

GRAIN SIZE DISTRIBUTION TEST DATA

6/24/2024

Client: : Phoenix Environmental Laboratories, Inc
Project: : GCQ 97179
Project Number: : GCQ 97179
Location: Onsite
Depth: N/A
Sample Number: 501-24
Material Description: Marine Sediments
Liquid Limit: N/A
Plastic Limit: N/A
USCS Classification: N/SA
AASHTO Classification: N/A
Test Date: 06/21/2024
Testing Remarks: ASTM C 117, ASTM C 136, ASTM D 6913 (Sample ID= CQ 97181)
Tested by: IC
Checked by: HC
Test Date: 06/21/2024 **Technician:** IC
Test remarks: ASTM C 117, ASTM C 136, ASTM D 6913 (Sample ID= CQ 97181)

Sieve Test Data (ASTM C117 & C136)

Post #200 Wash Test Weights (grams): Dry Specimen+Tare = 226.20
Tare Wt. = 0.00

Minus #200 from wash = 24.3%

Specimen Weights
Dry specimen+tare (gms.) = 298.70
Tare (gms.) = 0.00

Cumulative pan tare (gms.) = 0.00

Sieve Opening Size	Cumulative Weight Retained (grams)	Percent Passing	Percent Retained
3/4"	0.00	100.0	0.0
1/4"	38.30	87.2	12.8
#4	45.10	84.9	15.1
#10	66.90	77.6	22.4
#40	128.50	57.0	43.0
#60	168.30	43.7	56.3
#100	209.10	30.0	70.0
#200	225.80	24.4	75.6

Pan + tare = 0 Tare = 0 Loss during sieving = 0.1%
Total loss (wash+pan/specimen) = 24.3%

Results

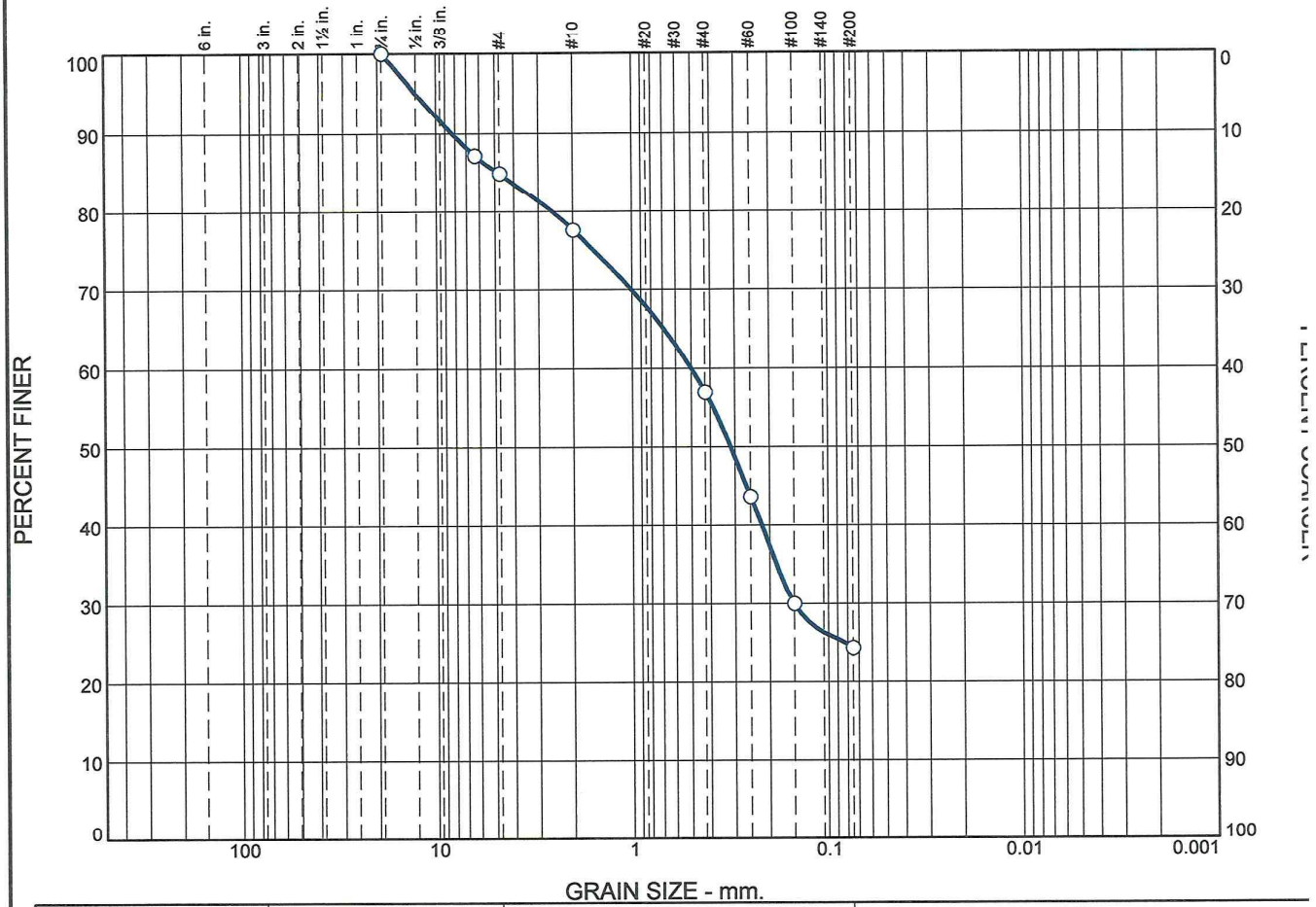
Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	15.1	15.1	7.3	20.6	32.6	60.5			24.4

D_5	D_{10}	D_{15}	D_{20}	D_{30}	D_{40}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
				0.1500	0.2195	0.3167	0.5015	2.5576	4.8087	8.2926	12.6106

Fineness Modulus

2.31

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	15.1	7.3	20.6	32.6	24.4	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	N/A	N/A	4.8087	0.5015	0.3167	0.1500				

	MATERIAL DESCRIPTION	TEST DATE	USCS	NM
○	Marine Sediments	06/21/2024	N/SA	

Project No. : GCQ 97179 **Client:** : Phoenix Environmental Laboratories, Inc

Project: : GCQ 97179

○ **Source of Sample:** Onsite **Depth:** N/A **Sample Number:** 501-24

Remarks:

○ ASTM C 117, ASTM C 136, ASTM D 6913 (Sample ID= C 97181)

Tri State Materials Testing Lab

Berlin, Connecticut

Figure

Tested By: IC **Checked By:** HC

Cooler: Yes ☐ No ☐
Coolant: IPK ☐ ICE ☐ No ☐

Temp °C Pg of

CHAIN OF CUSTODY RECORD

Page 1 of 1

PHOENIX Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Contact Options:
☐ Fax: 860-645-0823
☐ Phone: 800-827-5426
☐ Email: HelenG@PhoenixLabs.com

Customer: Tri State Materials Testing Lab
Address: 60 Woodland Rd
Berlin, CT
(203) 949-7733

Project #: GCQ97179
Report to: HelenG@PhoenixLabs.com / Helen Geoghegan
Invoice to: AccountsPayable@PhoenixLabs.com
Quote# :

Project P.O: GCQ97179

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ Date: _____

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Phoenix Sample ID	Sample Comment	Sample Matrix	Date Sampled	Time Sampled	Analysis Request: Sieve Test ASTM C136, C117, D6913	Analysis Request: 32 oz Glass Jar As Is
CQ97179		SED	6/17/2024	11:25 AM	x	1
CQ97180		SED	6/17/2024	12:20 PM	x	1
CQ97181		SED	6/17/2024	1:10 PM	x	1

Relinquished by:	Accepted by:	Date:	Time:
Kyle Bailey		6.19.24	

Turnaround:
☐ 1 Day
☐ 2 Days
☐ 3 Days
☐ 5 Days
☐ 10 Days
☒ Standard
☐ Other_____

Report Type:
☒ Standard PDF
☐ Full Data Package
☐ NJ Reduced Deliverable
☐ NJ Full Deliverable
☐ NY ASP B

EDD Format:
☐ Excel
☐ GIS/Key
☐ EQuIS
☐ NJ Hazsite EDD
☐ NY EZ EDD (ASP)
☐ Other:_____

State Criteria:
CT: Res. Criteria

Comments, Special Requirements or Regulations:

Please send notice as soon as possible not exceeding 24 hours of obtaining valid data, of the results of all drinking water samples that exceed any EPA or Department-established maximum contaminant level, maximum residual disinfectant level or reportable concentration.

Please notify Phoenix Environmental Laboratories, Inc. immediately and prior to conducting analysis if certification is not held for the analyses requested.

What State were samples collected?
CT

Biohabitats
NORTHEAST HIGHLANDS & COASTAL BIOREGION

Attachment 4 – Order of Magnitude Cost Estimates

Biohabitats
NORTHEAST HIGHLANDS & COASTAL BIOREGION

ORDER OF MAGNITUDE COST ESTIMATE
Option 1 - Dam Repair
Taylors Pond Dam
Ridgefield, Connecticut

Date Prepared: January 30, 2024
Updated: July 26, 2024

Item No.	Item Description	Quantity	Unit	Unit Cost	Total Cost	Notes
Design Services						
	Phase 1a - Pre-Design Services I					
	Data Assembly and Review	1	LS	$ 2,200	$ 2,200	(Updated 7/24)
	Sediment Sampling & Analysis	1	LS	$ 14,100	$ 14,100	Collect three (3) sediment samples from the impoundment for chemical and physical analysis; LEP services may be needed based on the results of sediment testing (Updated 7/24)
	Bathymetric & Sediment Depth Survey	1	LS	$ 5,300	$ 5,300	Develop bathymetric contours of the pond; Collect depth probes of sediment to estimate depth for future excavation. (Updated 7/24)
	Project Funding (Grant) Opportunities	1	LS	$ 3,300	$ 3,300	(Updated 7/24)
				Subtotal	**$ 24,900**	
	Phase 1b - Pre-Design Services II					
	Topographic Survey	1	LS	$ 15,000	$ 15,000	Detailed topographic survey of dam embankment and spillway, downstream reach, Limestone Rd. culvert; A2 not necessary
	Wetland Delineation & Natural Resources Assessment	1	LS	$ 5,000	$ 5,000	Delineation of area within 200 feet upstream of spill way; Delineation of stream downstream past Limestone Rd. culvert; Remaining wetlands associated with Taylors Pond delineated based on field observation and remote sensing data
	Hydrology & Hydraulic Analysis	1	LS	$ 15,000	$ 15,000	
				Subtotal	**$ 35,000**	
	Phase 2 - Conceptual Design					
	Conceptual Design Alternatives Assessment	1	LS	$ 6,200	$ 6,200	
	30% Design Plans	1	LS	$ 11,000	$ 11,000	
	Design Report	1	LS	$ 5,500	$ 5,500	
	Pre-Permitting Meetings & Coordination	1	LS	---	---	
	FEMA Coordination	1	LS	$ 1,500	$ 1,500	Site contains mapped floodplain and floodway requiring coordination with USACE
	NDDB Review	1	LS	$ -	$ -	No NDDB polygon on or adjacent to the site
	Fisheries Consultation	1	LS	$ 1,500	$ 1,500	
	Pre-Permitting Meetings w/ CTDEEP & USACE	1	LS	$ 1,500	$ 1,500	Assume one (1) meeting
	LEP Services	1	LS	$ -	$ -	Required for sediment management planning
				Subtotal	**$ 27,200**	
	Phase 3 - Preliminary Design & Permitting					
	90% Plans & Details	1	LS	$ 30,000	$ 30,000	Assume project to be completed as design-build; Plans developed to this stage will be suitable for permitting; D/B Contractor on board to assist with design; D/B/B would require 100% design plan, details and specifications (not included here)
	Construction Sequencing & Details	1	LS	$ 7,500	$ 7,500	
	Permit Application	1	LS	$ 15,000	$ 15,000	
	Permit Application Support	1	LS	---	---	
	Submittal (Fees and Notices)	1	LS	$ 3,000	$ 3,000	
	Meetings	1	LS	$ 7,500	$ 7,500	
	Response to Comments/Revisions	1	LS	$ 5,000	$ 5,000	
	Cost Estimate & D/B Contractor Coordination	1	LS	$ 12,000	$ 12,000	
				Subtotal	**$ 80,000**	
				Design Services Subtotal	**$ 167,100**	
				Design Services Contingency (25%)	**$ 41,800**	
				Design Services Total	**$ 208,900**	
Construction Services						
	General					
	Mobilization/Demobilization, Bonds and Insurance	1	LS	$ 45,000	$ 45,000	
	Clearing & Grubbing	1	LS	$ 65,000	$ 65,000	
	Water Control	1	LS	$ 72,000	$ 72,000	
	Erosion & Sediment Control	1	LS	$ 8,000	$ 8,000	
				Subtotal	**$ 190,000.00**	
	Dam Repair					

Biohabitats
NORTHEAST HIGHLANDS & COASTAL BIOREGION

ORDER OF MAGNITUDE COST ESTIMATE
Option 1 - Dam Repair
Taylors Pond Dam
Ridgefield, Connecticut

Date Prepared: January 30, 2024
Updated: July 26, 2024

Item No.	Item Description	Quantity	Unit	Unit Cost	Total Cost	Notes
	Construct Upstream Spillway Cutoff Wall (Incl. Excavation, Formwork, Concrete, etc.)				$ -	
	Excavation & Trucking	1	LS	$ 7,500	$ 7,500	Clean sediment without disposal limitations; Disposed of on site (Updated 7/2024)
	Concrete	1	LS	$ 18,000	$ 18,000	
	Repair Existing Stone Masonry / Concrete Areas at Spillway & Training Walls (Incl. Excavation at Walls, 2 Masons, and Materials)				$ -	
	Excavation	1	LS	$ 5,000	$ 5,000	
	Wall Repairs/Reconstruction	1	LS	$ 52,000	$ 52,000	
	Backfill at Spillway	1	LS	$ 12,000	$ 12,000	
	Grade Embankments & Access Road	1	LS	$ 25,000	$ 25,000	
	Install Articulating Cable Connected Concrete Blocks	1	LS	$ 200,000	$ 200,000	Initial review of conditions assumes complete overtopping of dam necessitating armoring of downstream side of dam for protection
				Subtotal	**$ 319,500**	
Landscaping & Restoration						
	Site Restoration	1	LS	$ 15,000	$ 15,000	
				Subtotal	**$ 15,000**	
				Construction Services Subtotal	**$ 524,500**	
				Construction Services Contingency (25%)	**$ 131,100**	
				Construction Services Total (incl. contingency)	**$ 655,600**	
Construction Administrative Services						
	Construction Contract Administration (5% of Construction Subtotal)				**$ 32,800**	
	Construction Oversight (5% of Construction Subtotal)				**$ 32,800**	
	Post-Construction Monitoring (8% of Construction Subtotal)				**$ 52,400**	
				TOTAL	**$ 982,500**	**Range (-25%/+40%): $740,000 - $1,380,000**

Notes:

1. Opinions of probable project cost or probable construction cost provided by Biohabitats, Inc. are made on the basis of information available to Biohabitats and on the basis of Biohabitats's experience and qualifications, and represents its judgment as an experienced and qualified professional engineer. However, since Biohabitats has no control over the cost of labor, materials, equipment or services furnished by others, or over the construction contractor(s') methods of determining prices, or over competitive bidding or market conditions, Biohabitats does not guarantee that proposals, bids or actual project or construction cost will not vary from opinions of probable cost Biohabitats prepares.
2. Totals rounded to the nearest one-hundred dollars.

Biohabitats
NORTHEAST HIGHLANDS & COASTAL BIOREGION

ORDER OF MAGNITUDE COST ESTIMATE
Option 2 - Dam Removal
Taylors Pond Dam
Ridgefield, Connecticut

Date Prepared: January 30, 2024
Updated: July 24, 2024

Item No.	Item Description	Quantity	Unit	Unit Cost	Total Cost	Notes
Design Services						
	Phase 1a - Pre-Design Services I					
	Data Assembly and Review	1	LS	$ 2,200	$ 2,200	(Updated 7/2024)
	Sediment Sampling & Analysis	1	LS	$ 14,100	$ 14,100	Collect three (3) sediment samples from the impoundment for chemical and physical analysis; LEP services may be needed based on the results of sediment testing (Updated 7/2024)
	Bathymetric & Sediment Depth Survey	1	LS	$ 5,300	$ 5,300	Develop bathymetric contours of the pond; Collect depth probes of sediment to estimate depth for future excavation. (Updated 7/2024)
	Project Funding (Grant) Opportunities	1	LS	$ 3,300	$ 3,300	(Updated 7/2024)
				Phase 1a Subtotal	**$ 24,900**	
	Phase 1b - Pre-Design Services II					
	Topographic Survey	1	LS	$ 15,000	$ 15,000	Detailed topographic survey of dam embankment and spillway, upstream sterams, downstream reach, Limestone Rd. culvert; A2 not necessary
	Wetland Delineation & Natural Resources Assessment	1	LS	$ 5,000	$ 5,000	Delineation of area within 200 feet upstream of spill way; Delineation of stream downstream past Limestone Rd. culvert; Remaining wetlands associated with Taylors Pond delineated based on field observation and remote sensing data
	Hydrology & Hydraulic Analysis	1	LS	$ 15,000	$ 15,000	
				Phase 1b Subtotal	**$ 35,000**	
	Phase 2 - Conceptual Design					
	Conceptual Design Alternatives Assessment	1	LS	$ 6,200	$ 6,200	
	30% Design Plans	1	LS	$ 11,000	$ 11,000	
	Design Report	1	LS	$ 5,500	$ 5,500	
	Pre-Permitting Meetings & Coordination	1	LS	---	---	
	FEMA Coordination	1	LS	$ 1,500	$ 1,500	Site contains mapped floodplain and floodway requiring coordination with USACE
	NDDB Review	1	LS	$ -	$ -	No NDDB polygon on or adjacent to the site
	Fisheries Consultation	1	LS	$ 2,000	$ 2,000	
	Pre-Permitting Meetings w/ CTDEEP & USACE	1	LS	$ 3,000	$ 3,000	Assume two (2) meetings
	LEP Services	1	LS	$ 5,000	$ 5,000	Required for sediment management planning
				Phase 2 Subtotal	**$ 34,200**	
	Phase 3 - Preliminary Design & Permitting					
	90% Plans & Details	1	LS	$ 30,000	$ 30,000	Assume project to be completed as design-build; Plans developed to this stage will be suitable for permitting; D/B Contractor on board to assist with design; D/B/B would require 100% design plan, details and specifications (not included here)
	Construction Sequencing & Details	1	LS	$ 7,500	$ 7,500	
	Permit Application	1	LS	$ 15,000	$ 15,000	
	Permit Application Support	1	LS	---	---	
	Submittal (Fees and Notices)	1	LS	$ 3,000	$ 3,000	
	Meetings	1	LS	$ 7,500	$ 7,500	
	Response to Comments/Revisions	1	LS	$ 4,800	$ 4,800	Assume up to three (3) meetings
	Cost Estimate & D/B Contractor Coordination	1	LS	$ 12,000	$ 12,000	
	Grant Support Services	1	LS	$ 5,000	$ 5,000	
				Phase 3 Subtotal	**$ 84,800**	
				Design Services Subotal	**$ 178,900**	
				Design Services Contingency (25%)	**$ 44,700**	
				Design Services Total	**$ 223,600**	
Construction Services						
	General					
	Mobilization/Demobilization, Bonds and Insurance	1	LS	$ 15,000	$ 15,000	
	Clearing & Grubbing	1	LS	$ 20,000	$ 20,000	
	Water Control	1	LS	$ 15,000	$ 15,000	
	Erosion & Sediment Control	1	LS	$ 8,000	$ 8,000	
				General Subtotal	**$ 58,000.00**	
	Site Work					
	Earthen Dam Removal	1	LS	$ 50,000	$ 50,000	
	Concrete Removal	1	LS	$ 40,000	$ 40,000	
	Sediment Management	926	CY	$ 25	$ 23,100	500 LF of sediment x 2 ft deep (average) and 25 FT wide (average); Sediment removed from impoundment assumed clean; Sediment to be excavated and managed on-site (Updated 7/2024)
	Streambed Creation/Stabilization	550	CY	$ 190	$ 104,500	500 LF new channel x 3 FT depth x 15 FT wide top/5 FT wide bottom; Bed & lower banks; Includes imported material; Estimated (needs advanced design)

Biohabitats
NORTHEAST HIGHLANDS & COASTAL BIOREGION

ORDER OF MAGNITUDE COST ESTIMATE
Option 2 - Dam Removal
Taylors Pond Dam
Ridgefield, Connecticut

Date Prepared: January 30, 2024
Updated: July 24, 2024

Item No.	Item Description	Quantity	Unit	Unit Cost	Total Cost	Notes
	Streambank Stabilization	1000	LF	$ 150	$ 150,000	One fabric encapsulated lift on each bank of new channel; Includes subgrade excavation; Includes stablization of sediment in impoundmentl Estimated (needs advanced design)
				Site Work Subtotal	**$ 367,600**	
Landscaping & Restoration						
	Revegetation	1	LS	$ 10,000	$ 10,000	Rely on native seed bank in impoundment; Restore temporary construction impacts; Manage for invasive species
				Landscaping & Restoration Subtotal	**$ 10,000**	
				Construction Services Subtotal	**$ 435,600**	
				Construction Services Contingency (25%)	**$ 108,900**	
				Construction Services Total (incl. contingency)	**$ 544,500**	
Construction Administrative Services						
	Construction Contract Administration (5% of Construction Subtotal)				**$ 27,200**	
	Construction Oversight (5% of Construction Subtotal)				**$ 27,200**	
	Post-Construction Monitoring (8% of Construction Subtotal)				**$ 43,600**	
				TOTAL	**$ 866,100**	**Range (-25%/+40%): $650,000 - $1,210,000**

Notes:

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2. Totals rounded to the nearest one-hundred dollars.