



Town of Swampscott Department of Public Works

22 Monument Avenue

Swampscott, Massachusetts 01907

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Gino A. Cresta Jr., Director
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September 1, 2021

Mr. Neil Handler
Senior Enforcement Officer
Water Technical Unit
U.S. Environmental Protection Agency, Region 1
5 Post Office Square, Suite 100
Mail Code OES04-4
Boston, MA 02109-3912

**SUBJECT: Consent Decree Compliance Report
Period 2/1/2021 to 7/31/2021**

Dear Mr. Handler:

Pursuant to Paragraph 66 of the Consent Decree between the U.S. EPA and the Town of Swampscott, MA, I am providing the following certification statement with regard to the preparation and submittal of: **Compliance Reporting – Period 2/1/2021 to 7/31/2021**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Gino A. Cresta, Jr.
Director of Public Works

MEMORANDUM

TO: Neil Handler | US EPA

FROM: David Peterson | Kleinfelder

DATE: September 1, 2021

CC: Gino Cresta | Town of Swampscott
Mark Thompson, Cecilia Carmona, Dan Scott | Kleinfelder

**SUBJECT: COMPLIANCE REPORTING - CASE 1:15-CV-13388-DJC
SWAMPSCOTT, MASSACHUSETTS**

Purpose:

This Compliance Report is provided pursuant to Paragraph 33 of the subject Consent Decree between the United States of America and the Town of Swampscott, MA. This report covers the reporting period noted below:

Reporting Period: February 1, 2021 through July 31, 2021

Through this reporting period, activities primarily included:

- Construction of Phase 1C sewer rehabilitation improvements in Stacy's Brook.
- Phase 1C pre-construction stormwater sampling in Stacy's Brook.
- Post-construction warranty inspections of all mainlines and laterals in the Phase 1B project area construction scope.
- House dye testing in targeted areas of the Phase 1B project area, and Humphrey Street.

The following report summarizes the activities performed during the Reporting Period.

Phase 1C Construction Update

The Stacy's Brook Sewer System Rehabilitation Project Phase 1C includes comprehensive sewer rehabilitation in specific neighborhoods in the Stacy's Brook catchment, consisting of cured in place pipe (CIPP) lining of sewer mainlines and laterals, sewer manhole rehabilitation, and split-wall sewer manhole rehabilitation (Type 2 underdrain manholes).

The Phase 1C project scope includes the comprehensive rehabilitation of the sewer collection system in the remaining Phase 1 areas that were not completed in Phases 1A or 1B. These areas are primarily in the southern part of the Stacy's Brook catchment that converge at the intersection of Paradise Road and Norfolk Avenue.

In addition to the Phase 1 area, the Phase 1C project scope includes CIPP lining of sewer mainlines on Puritan Road, adjacent to Fisherman's Beach. These mainlines were included as an additive bid item and were part of the original Areas Beyond Stacy's Brook (ABSB) design scope. The lining of these ABSB mainlines on Puritan Road is the first step in implementing a similar rehabilitation approach to the Phase 1 area, by sealing the sewer in the Fishman's Beach catchment that are in similar depth and proximity to the drainage system.

Kleinfelder awarded the Phase 1C contract to National Water Main Cleaning Co. on December 28, 2020 for a total contract price of \$1,762,773. The Town issued the Notice to Proceed on February 9, 2021, and construction activities began shortly after in March 2021.

During the current reporting period, National Water Main Cleaning Co. completed CCTV inspections and cleaning of all 14,000 LF of mainlines and 255 laterals within the Phase 1C project scope. In addition, their subcontractor N&M Excavating completed open-cut repairs of 11 mainline and 53 lateral defects. Open-cut repairs were completed at locations on sewer mainline and laterals where structural defects would prohibit the proper installation of a CIPP liner. The open-cut repairs included lateral chimney connections in which there was a 90-degree bend just before the connection to the crown of the mainline. In July 2021, National Water Main Cleaning Co. began mainline CIPP in the Phase 1C project area.

In addition to the construction efforts, Kleinfelder completed one round of dry weather sampling of stormwater within the Phase 1C project area in May 2021. The water quality monitoring performed was consistent with the Illicit Discharge and Elimination (IDDE) procedure detailed in the Consent Decree between the Town and the US EPA. The sampling was conducted at ten (10) locations, including the drainage manhole near the southern extent of the Stacy's Brook Phase 1 project area, immediately upstream of the intersection of Paradise Road and Burrill Street and at the Stacy's Brook outfall during low tide. A map showing the water quality monitoring locations and the lab results from the one round of dry weather preconstruction water quality monitoring are included in **Appendix A**. After the completion of Phase 1C construction, two rounds of wet weather and two rounds of dry weather post construction water quality monitoring will be performed consistent with the IDDE procedures detailed in the Consent Decree between the Town and the US EPA.

Phase 1B Post-Construction Updates

During the current reporting period, Rapid Flow completed warranty CCTV inspections of all mainlines and laterals that were included in the Phase 1B project scope. Per the contract specifications, the warranty inspections were completed at least 1 year after construction. Kleinfelder is working with Rapid Flow to review the warranty inspection videos and ensure all mainlines and laterals are in acceptable condition.

In addition, during the current reporting period, Kleinfelder began to complete IDDE dye testing investigations at seven (7) properties within the Phase 1B project area on Banks Road and Stetson Avenue, and six (6) properties on Humphrey Street/Eastern Ave near the Stacy's Brook outfall. A map of the properties included in the IDDE dye testing scope are included in **Appendix B**.

The properties on Banks Road were targeted for dye testing due to high concentrations of enterococcus found during Phase 1B post-construction water quality sampling. The properties on

Stetson Avenue were included in the scope based on drain smoke testing results that required a follow up investigation.

The dye testing investigations are conducted over several days due to the availability of homeowners. The first set of investigations occurred on July 29. Kleinfelder completed tracer dye testing and building inspections at seven (7) of the thirteen (13) selected properties. This included five (5) of the seven (7) properties within the Phase 1B project area, and two (2) of the six (6) properties on Humphrey Street. The Humphrey Street investigations were conducted during low tide conditions due to the proximity to the outfall. Results from the first round of investigations exhibited no evidence of illicit connections to the storm drain. The tracer dye was identified in the sewer in all cases. The results of the investigations will be included in the next bi-annual report.

Tracking Data Tables:

In accordance with Paragraph 33 of the Consent Decree, a series of tracking tables are presented furnishing the information requested.

- a) Chronology of SSO Events Occurring during Reporting Period
- b) Catchment Area Inspections Completed during Reporting Period
- c) Percentage of Catchment Area Investigated and Addressed
- d) Listing of Illicit Discharges Verified during Reporting Period
 - i) Illicit Connections
 - ii) Sanitary Sewer Defects
- e) Map of Location of Each Illicit Discharge Verified during Reporting Period
- f) Chart of Inspections Completed and Enforcement Actions Taken during Reporting Period
- g) List of Plans, Reports and other Submissions Required by this Consent Decree made during the Reporting Period
- h) Copies of Sampling Results Received during Reporting Period
- i) Planned Activities during the 6 Months Following the Reporting Period
- j) Summary of Non-Compliance with this Consent Decree during the Reporting Period

a) Chronology of SSO Events Occurring during Reporting Period

A map displaying the location of the SSO event that occurred during the current reporting period is included in **Appendix C**.

i.	i.	i.	ii.	iii.	iii.	iii.	iv.	iv.	v.	vi.	vii.	vii.	viii.	ix.	ix.	xi.	xii.
Date/Time Reported	Date/Time Event Stopped	Date Reported to EPA and DEP	Location	Final Disposition	Property Backup (address)	Receiving Drainage Structure	Receiving Surface Water	Location Release Reached Surface Water	Source of Notification	Cause(s) of Release	Cause = Blockage	Cause = Capacity Issue	Measures Take to Stop Discharge	Volume of Release (Gallons)	Basis of Estimate	Measures Taken to Prevent Future SSOs	Date of Last SSO at this Location
3/17/2021 14:00	3/18/2021 13:30	3/18/2021	Manhole in property at 44-66 Humphrey St	Blockage in private side of sewer. Owner worked with private contractor to clear blockage.	None	None	None	None	Resident	Blockage in Private side of sewer.	✓	N/A	Town tried to divert flow to remain in private driveway and washed public way again after SSO stopped.	200	Visual Estimate	None required.	None Known

b) Catchment Area Inspections completed during Reporting Period

c) Percentage of Catchment Area Investigated and Addressed

Note that this reporting is in relation to meeting the Remedial Measures stipulated in Section VII of the consent decree. In order to meet the objectives of the consent decree, the Town's scope of work is not specifically following an IDDE Plan, but rather, is directly following the Remedial Measures themselves, and the Scope of Work for the Stacy's Brook drainage area that was submitted to the EPA on 10/26/2015.

33.b.i, ii	Sub-Catchment Area ID	Number of Drain Manholes in Sub-Catchment	Number of Drain Manholes Inspected						Number of Drain Manholes Addressed					
			Previous Reporting Periods		This Reporting Period		To-Date		Previous Reporting Periods		This Reporting Period		To-Date	
			QTY	%	QTY	%	QTY	%	QTY	%	QTY	%	QTY	%
1	Stacey's Brook	236	21	9%	0	0%	21	9%	6	3%	0	0%	6	3%
2	Other	372	69	19%	9	2%	78	21%	0	0%	0	0%	0	0%
		TOTAL	90	15%	9	0%	99	15%	6	1%	0	0%	6	1%

33.b.iii, 33.c	Sub-Catchment Area ID	Length of Drain in Sub-Catchment	Length of Drain Inspected						Length of Drain Addressed					
			Previous Reporting Periods		This Reporting Period		To-Date		Previous Reporting Periods		This Reporting Period		To-Date	
			FT	%	FT	%	FT	%	FT	%	FT	%	FT	%
1	Stacey's Brook	55,600	21,000	38%	0	0%	21,000	38%	650	1%	0	0%	650	1%
2	Other	95,000	2,263	2%	1,000	1%	3,263	3%	0	0%	0	0%	0	0%
		TOTAL	23,263	15%	1,000	0%	24,263	15%	650	0%	0	0%	650	0%

d) Listing of Illicit Discharges Verified during Reporting Period

										Total Volume Removed (Gallons)							
										Prior Reporting Periods	269,176						
										This Reporting Period	200						
										Cumulative To Date	269,376						
Discharge Type	Date Verified	Location / Address	SOURCE if: Building Type	SOURCE if: Sewer Exfiltration	Estimated Flow (GPM)	Actions Taken to Remove	Date Removed	Cost to Remove	Volume Removed (Gallons) (Reporting Period)	Actively Discharging > 60 Days	Explanation	Schedule for Removal	Private Discharges Persisting > 90 days	Town's Legal Enforcement Actions	Reasons for Delay		
Paragraph ->	i.	i.	i.	i.	ii.	iii.	iv.	v.	vi.	vii.	vii.	viii.	ix.	ix.	x.		
Sewer Defect	7/6/2021	57 Plymouth Ave	Residential	Sewer Service Repair	not estimated	Private contractor performed repair	7/6/2021	unknown	unknown	No	n/a	completed	No	None	n/a		
Sewer Defect	6/23/2021	53 Fuller Ave	Residential	Sewer Service Repair	not estimated	Private contractor performed repair	6/23/2021	unknown	unknown	No	n/a	completed	No	None	n/a		
Sewer Defect	6/1/2021	167 Redington St	Residential	Sewer Service Repair	not estimated	Private contractor performed repair	6/1/2021	unknown	unknown	No	n/a	completed	No	None	n/a		
Sewer Defect	6/1/2021	55 The Greenway	Residential	Sewer Service Repair	not estimated	Private contractor performed repair	6/1/2021	unknown	unknown	No	n/a	completed	No	None	n/a		
Sewer Defect	4/6/2021	60 Andrew Road	Residential	Sewer Service Repair	not estimated	Private contractor performed repair	4/6/2021	unknown	unknown	No	n/a	completed	No	None	n/a		

Discharge Type	Date Verified	Location / Address	SOURCE if: Building Type	SOURCE if: Sewer Exfiltration	Estimated Flow (GPM)	Actions Taken to Remove	Date Removed	Cost to Remove	Volume Removed (Gallons) (Reporting Period)	Actively Discharging > 60 Days	Explanation	Schedule for Removal	Private Discharges Persisting > 90 days	Town's Legal Enforcement Actions	Reasons for Delay
Paragraph ->	i.	i.	i.	i.	ii.	iii.	iv.	v.	vi.	vii.	vii.	viii.	ix.	ix.	x.
Sewer Defect	3/30/2021	6 Puritan Ave	Residential	Sewer Service Repair	not estimated	Private contractor performed repair	3/30/2021	unknown	unknown	No	n/a	completed	No	None	n/a
Sewer Defect	3/22/2021	13 Cutting Road	Residential	Sewer Service Repair	not estimated	Private contractor performed repair	3/22/2021	unknown	unknown	No	n/a	completed	No	None	n/a
Sewer Defect	3/17/2021	133 Aspen Road	Residential	Sewer Service Repair	not estimated	Private contractor performed repair	3/17/2021	unknown	unknown	No	n/a	completed	No	None	n/a
Sewer Defect	3/17/2021	44-66 Humphrey St	Residential	Blockage in Private side of sewer.	not estimated	Town tried to divert flow to remain in private driveway and washed public way again after SSO stopped.	3/17/2021	unknown	200	No	n/a	completed	No	None	n/a

e) Map of Location of Each Illicit Discharge Verified during Reporting Period

A map showing the locations of all illicit discharges and SSOs is included in **Appendix C**.

f) Chart of Inspections Completed and Enforcement Actions Taken during Reporting Period

Number of Routine Inspections	Number of Complaint-Response Related Inspections	Number of Total Construction Inspections
285	1	8

Enforcement Actions Taken (Type)	Enforcement Actions Taken (Number)
Notifications to Property Owner	0
Entry To Perform Duties	0
Penalty (Fines)	0
Orders	0
Civil Relief	0
Town Resolved using own means (no enforcement)	0

g) List of Plans, Reports and other Submissions Required by this Consent Decree made during the Reporting Period

Submission Description	Date Completed	Consent Decree Paragraph Reference
Bi-Annual Progress Report	3/1/2021	18

h) Copies of Sampling Results Received during Reporting Period

Results from one dry weather round of Phase 1C pre-construction water quality monitoring are provided in **Appendix A**.

i) Planned Activities during the 6 Months Following the Reporting Period

During the period August 1, 2021 through January 31, 2022 the following activities are anticipated:

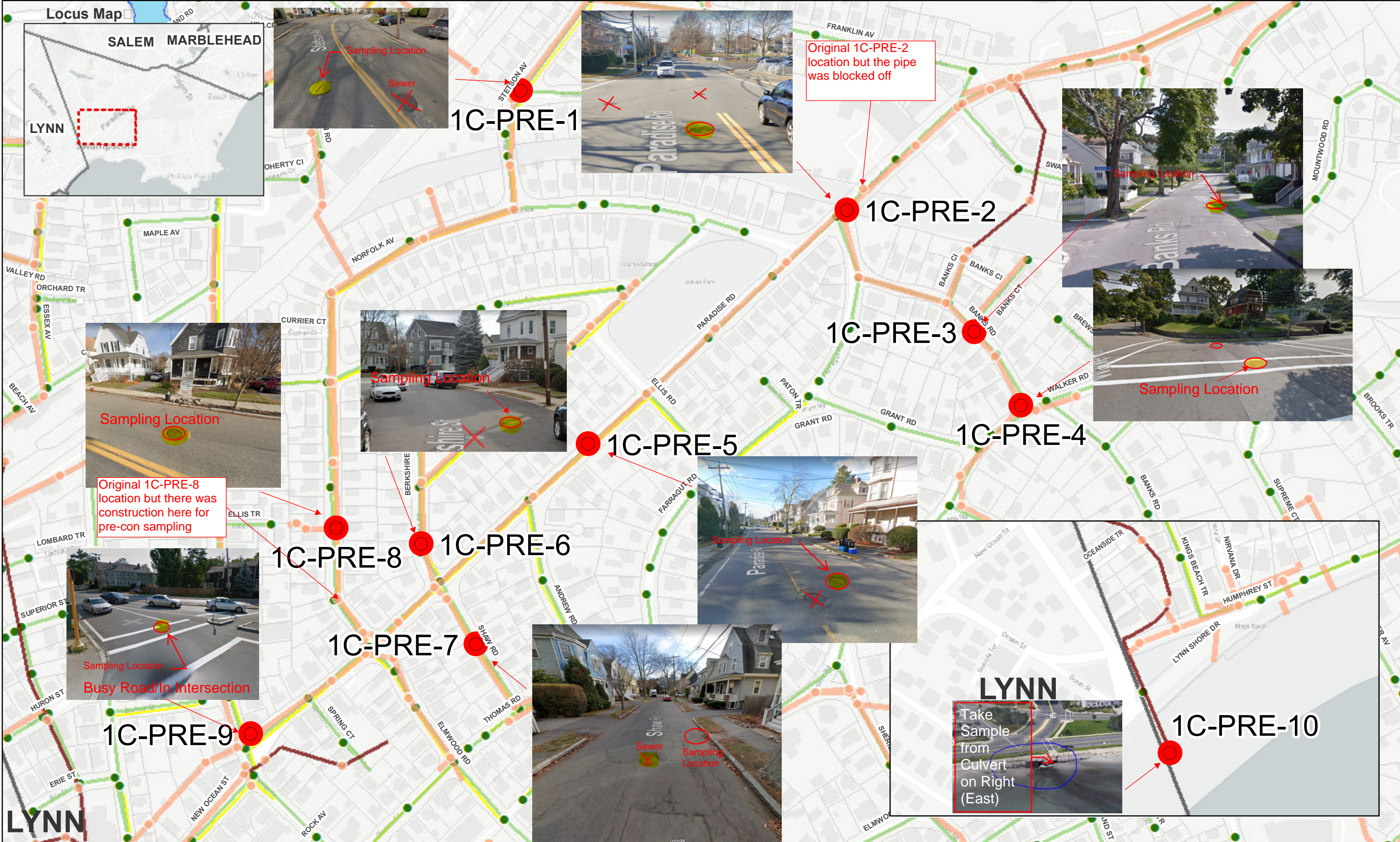
- Complete the construction of Phase 1C sewer rehabilitation improvements in the Stacy's Brook area.
- Complete review of Phase 1B warranty inspections and issue retainage to Rapid Flow to finalize contract.
- Complete Phase 1B house dye testing investigations and submit memorandum of findings to the Town.

j) Summary of Non-Compliance with this Consent Decree during the Reporting Period

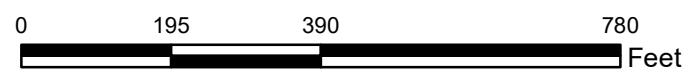
There has been no non-compliance during this report period.

Appendix A

Laboratory Results for Phase 1C Pre-Construction Dry
Weather Monitoring



- Legend**
- Sampling_Locations_1C
 - Drain MH (MS4)
 - Gravity Sewer Pipelines
 - Drain Gravity Pipe
 - Sewer MH
 - Drain Culvert
 - Sewer Underdrain



PROJECT NO.	20211277
DRAWN:	4/12/2021
DRAWN BY:	EON
CHECKED BY:	DTP
FILE NAME:	Phase 1C Water Quality Test Sites PreC

**Pre Construction
Water Quality
Test Locations
Phase 1C
Town of Swampscott, MA**



ANALYTICAL REPORT

Lab Number:	L2125191
Client:	Kleinfelder One Beacon Street Suite 8100 Boston, MA 02108
ATTN:	Elyse Noll
Phone:	(617) 498-4681
Project Name:	SWAMPSCOTT PHASE 1C
Project Number:	Not Specified
Report Date:	06/01/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2125191
Report Date: 06/01/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2125191-01	1C-PRE-06	WATER	SWAMPSCOTT, MA	05/13/21 12:00	05/13/21
L2125191-02	1C-PRE-07	WATER	SWAMPSCOTT, MA	05/13/21 12:25	05/13/21
L2125191-03	1C-PRE-08	WATER	SWAMPSCOTT, MA	05/13/21 12:55	05/13/21
L2125191-04	1C-PRE-09	WATER	SWAMPSCOTT, MA	05/13/21 13:30	05/13/21
L2125191-05	1C-PRE-11	WATER	SWAMPSCOTT, MA	05/13/21 14:00	05/13/21

Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2125191
Report Date: 06/01/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2125191
Report Date: 06/01/21

Case Narrative (continued)

Enterococcus

L2125191-01 through -03 were analyzed with the method required holding time exceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Sebastian Corbin

Title: Technical Director/Representative

Date: 06/01/21

INORGANICS & MISCELLANEOUS

Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2125191
Report Date: 06/01/21

SAMPLE RESULTS

Lab ID: L2125191-01
Client ID: 1C-PRE-06
Sample Location: SWAMPSCOTT, MA

Date Collected: 05/13/21 12:00
Date Received: 05/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	23		col/100ml	2.0	--	2	-	05/13/21 21:00	23,1600	JT



Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2125191
Report Date: 06/01/21

SAMPLE RESULTS

Lab ID: L2125191-02
Client ID: 1C-PRE-07
Sample Location: SWAMPSCOTT, MA

Date Collected: 05/13/21 12:25
Date Received: 05/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	2.0		col/100ml	2.0	--	2	-	05/13/21 21:00	23,1600	JT



Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2125191
Report Date: 06/01/21

SAMPLE RESULTS

Lab ID: L2125191-03
Client ID: 1C-PRE-08
Sample Location: SWAMPSCOTT, MA

Date Collected: 05/13/21 12:55
Date Received: 05/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	4900		col/100ml	100	--	100	-	05/13/21 21:00	23,1600	JT



Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2125191
Report Date: 06/01/21

SAMPLE RESULTS

Lab ID: L2125191-04
Client ID: 1C-PRE-09
Sample Location: SWAMPSCOTT, MA

Date Collected: 05/13/21 13:30
Date Received: 05/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	170		col/100ml	2.0	--	2	-	05/13/21 21:00	23,1600	JT



Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2125191
Report Date: 06/01/21

SAMPLE RESULTS

Lab ID: L2125191-05
Client ID: 1C-PRE-11
Sample Location: SWAMPSCOTT, MA

Date Collected: 05/13/21 14:00
Date Received: 05/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	350		col/100ml	10	--	10	-	05/13/21 21:00	23,1600	JT



Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2125191
Report Date: 06/01/21

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab for sample(s): 01-05 Batch: WG1498667-1									
ENTEROCOCCUS	ND	col/100ml	1.0	--	1	-	05/13/21 21:00	23,1600	JT

Project Name: SWAMPSCOTT PHASE 1C**Lab Number:** L2125191**Project Number:** Not Specified**Report Date:** 06/01/21**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2125191-01A	Bacteria Cup Na2S2O3 preserved	A	NA		3.2	Y	Absent		ENTRO-MF(.33)
L2125191-01B	Bacteria Cup Na2S2O3 preserved	A	NA		3.2	Y	Absent		ENTRO-MF(.33)
L2125191-02A	Bacteria Cup Na2S2O3 preserved	A	NA		3.2	Y	Absent		ENTRO-MF(.33)
L2125191-02B	Bacteria Cup Na2S2O3 preserved	A	NA		3.2	Y	Absent		ENTRO-MF(.33)
L2125191-03A	Bacteria Cup Na2S2O3 preserved	A	NA		3.2	Y	Absent		ENTRO-MF(.33)
L2125191-03B	Bacteria Cup Na2S2O3 preserved	A	NA		3.2	Y	Absent		ENTRO-MF(.33)
L2125191-04A	Bacteria Cup Na2S2O3 preserved	A	NA		3.2	Y	Absent		ENTRO-MF(.33)
L2125191-04B	Bacteria Cup Na2S2O3 preserved	A	NA		3.2	Y	Absent		ENTRO-MF(.33)
L2125191-05A	Bacteria Cup Na2S2O3 preserved	A	NA		3.2	Y	Absent		ENTRO-MF(.33)
L2125191-05B	Bacteria Cup Na2S2O3 preserved	A	NA		3.2	Y	Absent		ENTRO-MF(.33)

Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2125191
Report Date: 06/01/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2125191
Report Date: 06/01/21

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report



Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2125191
Report Date: 06/01/21

Data Qualifiers

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2125191
Report Date: 06/01/21

REFERENCES

- 23 Method 1600: Membrane Filter Test Method for Enterococci in Water, EPA-821-R-97-004a, May 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE _____ OF _____

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-622-9300

Date Rec'd in Lab: **5/13/21**

ALPHA Job #: **L2125191**

Project Information

Project Name: **Swampscott Phase 1C**

Project Location: **Swampscott, MA**

Project #:

Project Manager:

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due:

Report Information - Data Deliverables

ADEx EMAIL

Billing Information

Same as Client info PO #:

Client Information

Client: **Kleinfelder - Elise No11**

Address: **1 Beacon St. Suite 8100
Boston, MA 02108**

Phone: **570-975-9111**

Email: **ENo11@Kleinfelder.com**

Additional Project Information:

Regulatory Requirements & Project Information Requirements

Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods
 Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
 Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
 Yes No NPDES RGP
 Other State /Fed Program _____ Criteria _____

ANALYSIS		SAMPLE INFO	
VOC: <input type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 324.2	SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH	Filtration	<input type="checkbox"/> Field <input type="checkbox"/> Lab to do
METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	METALS: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8	Preservation	<input type="checkbox"/> Lab to do
EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only		
PCB: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint		
<i>Enterococcus Bact.</i>			
		Sample Comments	

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials
		Date	Time		
25191-01	1C-PRE-06	5/13/21	12:00		
02	1C-PRE-07	5/13/21	12:25		
03	1C-PRE-08	5/13/21	12:55		
04	1C-PRE-09	5/13/21	13:30		
05	1C-PRE-11	5/13/21	14:00		

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO3
D= H2SO4
E= NaOH
F= MeOH
G= NaHSO4
H= Na2S2O8
I= Ascorbic Acid
J= NH4Cl
K= Zn Acetate
O= Other

Container Type	
Preservative	

Relinquished By: <i>Elise No11</i>	Date/Time 5/13/21 15:55	Received By: <i>[Signature]</i>	Date/Time 5/13/21 15:55
Relinquished By: <i>Joseph C. [Signature]</i>	Date/Time 5/13/21 18:21	Received By: <i>[Signature]</i>	Date/Time 5/13/21 18:21

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.
FORM NO: 01-01 (rev. 12-Mar-2012)



ANALYTICAL REPORT

Lab Number:	L2124991
Client:	Kleinfelder One Beacon Street Suite 8100 Boston, MA 02108
ATTN:	Elyse Noll
Phone:	(617) 498-4681
Project Name:	SWAMPSCOTT PHASE 1C
Project Number:	Not Specified
Report Date:	06/01/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2124991
Report Date: 06/01/21

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2124991-01	1C-PRE-04	WATER	SWAMPSCOTT, MA	05/13/21 08:55	05/13/21
L2124991-02	1C-PRE-03	WATER	SWAMPSCOTT, MA	05/13/21 09:20	05/13/21
L2124991-03	1C-PRE-01	WATER	SWAMPSCOTT, MA	05/13/21 08:20	05/13/21
L2124991-04	1C-PRE-10	WATER	SWAMPSCOTT, MA	05/13/21 07:45	05/13/21
L2124991-05	1C-PRE-02	WATER	SWAMPSCOTT, MA	05/13/21 09:45	05/13/21
L2124991-06	1C-PRE-05	WATER	SWAMPSCOTT, MA	05/13/21 10:20	05/13/21

Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2124991
Report Date: 06/01/21

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2124991
Report Date: 06/01/21

Case Narrative (continued)

Enterococcus

L2124991-04 was analyzed with the method required holding time exceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Sebastian Corbin

Title: Technical Director/Representative

Date: 06/01/21

INORGANICS & MISCELLANEOUS

Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2124991
Report Date: 06/01/21

SAMPLE RESULTS

Lab ID: L2124991-01
Client ID: 1C-PRE-04
Sample Location: SWAMPSCOTT, MA

Date Collected: 05/13/21 08:55
Date Received: 05/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	28		col/100ml	2.0	--	2	-	05/13/21 16:00	23,1600	JT



Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2124991
Report Date: 06/01/21

SAMPLE RESULTS

Lab ID: L2124991-02
Client ID: 1C-PRE-03
Sample Location: SWAMPSCOTT, MA

Date Collected: 05/13/21 09:20
Date Received: 05/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	490		col/100ml	10	--	10	-	05/13/21 16:00	23,1600	JT



Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2124991
Report Date: 06/01/21

SAMPLE RESULTS

Lab ID: L2124991-03
Client ID: 1C-PRE-01
Sample Location: SWAMPSCOTT, MA

Date Collected: 05/13/21 08:20
Date Received: 05/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	5.0		col/100ml	2.0	--	2	-	05/13/21 16:00	23,1600	JT



Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2124991
Report Date: 06/01/21

SAMPLE RESULTS

Lab ID: L2124991-04
Client ID: 1C-PRE-10
Sample Location: SWAMPSCOTT, MA

Date Collected: 05/13/21 07:45
Date Received: 05/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	130		col/100ml	2.0	--	2	-	05/13/21 16:00	23,1600	JT



Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2124991
Report Date: 06/01/21

SAMPLE RESULTS

Lab ID: L2124991-05
Client ID: 1C-PRE-02
Sample Location: SWAMPSCOTT, MA

Date Collected: 05/13/21 09:45
Date Received: 05/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	140		col/100ml	2.0	--	2	-	05/13/21 16:00	23,1600	JT



Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2124991
Report Date: 06/01/21

SAMPLE RESULTS

Lab ID: L2124991-06
Client ID: 1C-PRE-05
Sample Location: SWAMPSCOTT, MA

Date Collected: 05/13/21 10:20
Date Received: 05/13/21
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab										
ENTEROCOCCUS	220		col/100ml	10	--	10	-	05/13/21 16:00	23,1600	JT



Project Name: SWAMPSCOTT PHASE 1C

Lab Number: L2124991

Project Number: Not Specified

Report Date: 06/01/21

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Microbiological Analysis - Westborough Lab for sample(s): 01-06 Batch: WG1498607-1										
ENTEROCOCCUS	ND		col/100ml	1.0	--	1	-	05/13/21 16:00	23,1600	JT

Project Name: SWAMPSCOTT PHASE 1C**Lab Number:** L2124991**Project Number:** Not Specified**Report Date:** 06/01/21**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2124991-01A	Bacteria Cup Na2S2O3 preserved	A	NA		2.7	Y	Absent		ENTRO-MF(.33)
L2124991-01B	Bacteria Cup Na2S2O3 preserved	A	NA		2.7	Y	Absent		ENTRO-MF(.33)
L2124991-02A	Bacteria Cup Na2S2O3 preserved	A	NA		2.7	Y	Absent		ENTRO-MF(.33)
L2124991-02B	Bacteria Cup Na2S2O3 preserved	A	NA		2.7	Y	Absent		ENTRO-MF(.33)
L2124991-03A	Bacteria Cup Na2S2O3 preserved	A	NA		2.7	Y	Absent		ENTRO-MF(.33)
L2124991-03B	Bacteria Cup Na2S2O3 preserved	A	NA		2.7	Y	Absent		ENTRO-MF(.33)
L2124991-04A	Bacteria Cup Na2S2O3 preserved	A	NA		2.7	Y	Absent		ENTRO-MF(.33)
L2124991-04B	Bacteria Cup Na2S2O3 preserved	A	NA		2.7	Y	Absent		ENTRO-MF(.33)
L2124991-05A	Bacteria Cup Na2S2O3 preserved	A	NA		2.7	Y	Absent		ENTRO-MF(.33)
L2124991-05B	Bacteria Cup Na2S2O3 preserved	A	NA		2.7	Y	Absent		ENTRO-MF(.33)
L2124991-06A	Bacteria Cup Na2S2O3 preserved	A	NA		2.7	Y	Absent		ENTRO-MF(.33)
L2124991-06B	Bacteria Cup Na2S2O3 preserved	A	NA		2.7	Y	Absent		ENTRO-MF(.33)

Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2124991
Report Date: 06/01/21

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2124991
Report Date: 06/01/21

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report



Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2124991
Report Date: 06/01/21

Data Qualifiers

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Project Name: SWAMPSCOTT PHASE 1C
Project Number: Not Specified

Lab Number: L2124991
Report Date: 06/01/21

REFERENCES

- 23 Method 1600: Membrane Filter Test Method for Enterococci in Water, EPA-821-R-97-004a, May 1997.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

PAGE _____ OF _____

Date Rec'd in Lab: 5/13/21

ALPHA Job #: L2124991

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Project Information

Project Name: Swampscott Phase 1C

Project Location: Swampscott, MA

Project #:

Project Manager:

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due:

Report Information - Data Deliverables

ADEX EMAIL

Billing Information

Same as Client info PO #:

Client Information

Client: Kleinfelder - Elyse Noll

Address: 1 Beacon St. Suite 8100
Boston, MA 02108

Phone: 570-975-9111

Email: ENoll@Kleinfelder.com

Additional Project Information:

Regulatory Requirements & Project Information Requirements

Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods
 Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
 Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
 Yes No NPDES RGP
 Other State /Fed Program _____ Criteria _____

ANALYSIS		SAMPLE INFO
VOC: <input type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 524.2	SVOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH	
METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15	METALS: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8 <input type="checkbox"/> PPT3	
EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	Entococcus Bact.
<input type="checkbox"/> PCB <input type="checkbox"/> PEST	TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint	
Sample Comments		TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials	ANALYSIS	SAMPLE INFO
		Date	Time				
<u>24991 01</u>	<u>1C-PRE-04</u>	<u>5/13/21</u>	<u>08:55</u>				<input checked="" type="checkbox"/>
<u>02</u>	<u>1C-PRE-03</u>	<u>5/13/21</u>	<u>09:20</u>				<input checked="" type="checkbox"/>
<u>03</u>	<u>1C-PRE-01</u>	<u>5/13/21</u>	<u>08:20</u>				<input checked="" type="checkbox"/>
<u>04</u>	<u>1C-PRE-10</u>	<u>5/13/21</u>	<u>07:45</u>				<input checked="" type="checkbox"/>
<u>05</u>	<u>1C-PRE-02</u>	<u>5/13/21</u>	<u>09:45</u>				<input checked="" type="checkbox"/>
<u>06</u>	<u>1C-PRE-05</u>	<u>5/13/21</u>	<u>10:20</u>				<input checked="" type="checkbox"/>

Container Type
 P= Plastic
 A= Amber glass
 V= Vial
 G= Glass
 B= Bacteria cup
 C= Cube
 O= Other
 E= Encore
 D= BOD Bottle

Preservative
 A= None
 B= HCl
 C= HNO₃
 D= H₂SO₄
 E= NaOH
 F= MeOH
 G= NaHSO₄
 H= Na₂S₂O₃
 I= Ascorbic Acid
 J= NH₄Cl
 K= Zn Acetate
 O= Other

Container Type	
Preservative	





Relinquished By:	Date/Time	Received By:	Date/Time
<u>[Signature]</u>	<u>5/13/21 11:05</u>	<u>[Signature]</u>	<u>5/13/21 11:05</u>
<u>[Signature]</u>	<u>5/13/21 13:48</u>	<u>[Signature]</u>	<u>5/13/21 13:48</u>

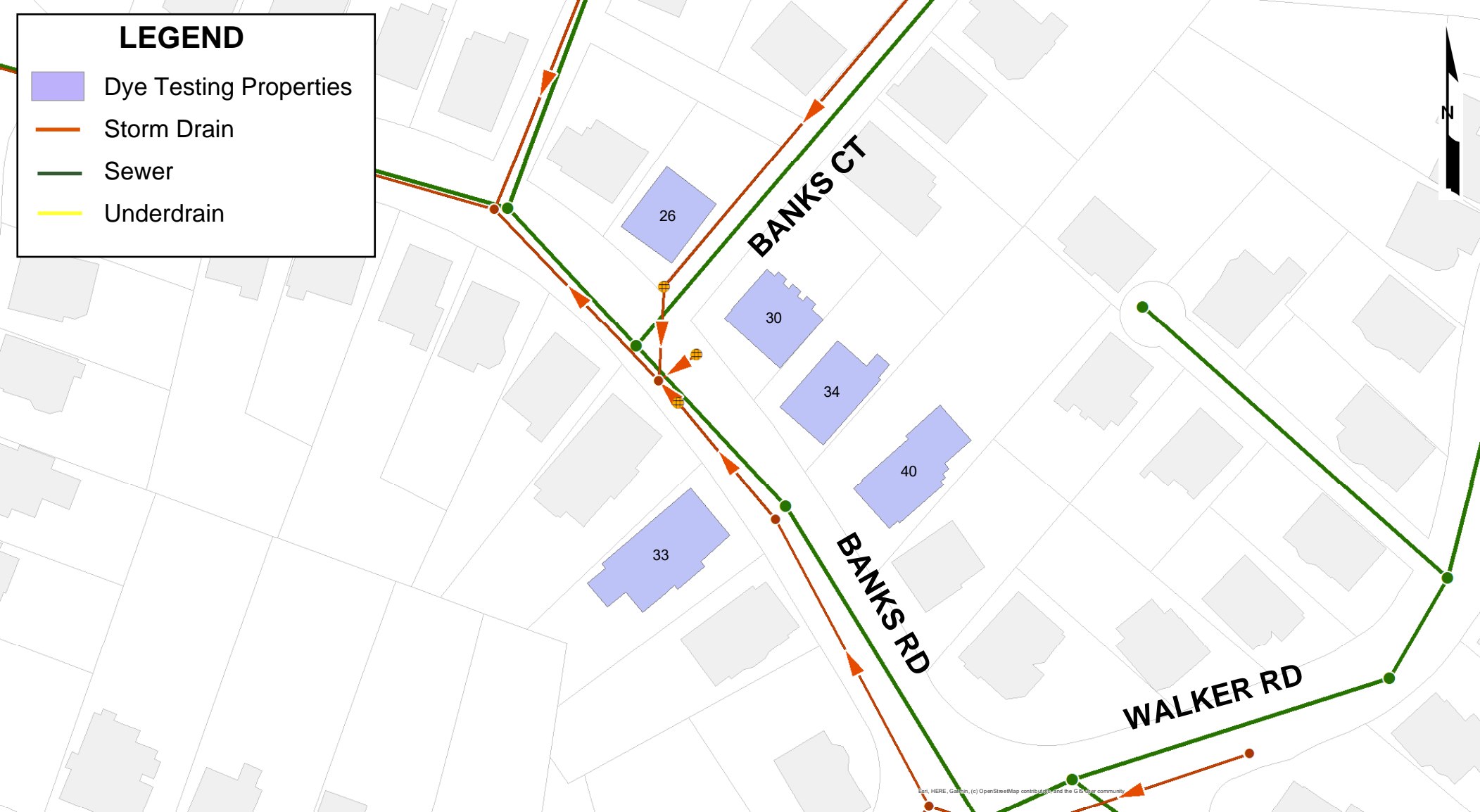
All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.
 FORM NO: 01-01 (rev. 12-Mar-2012)

Appendix B





Stacy's Brook Phase 1B House Dye Testing Locations

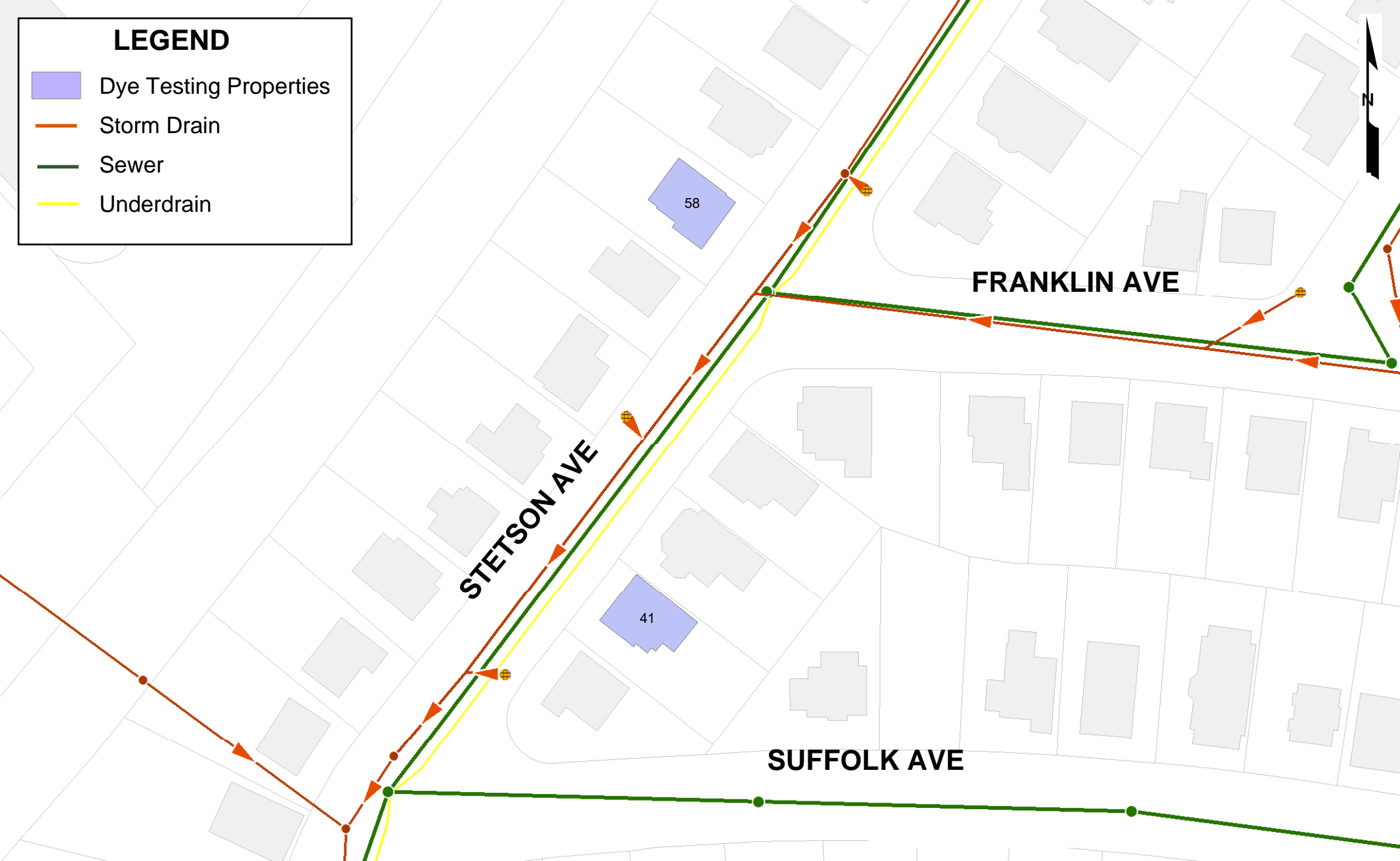
LEGEND

-  Dye Testing Properties
-  Storm Drain
-  Sewer
-  Underdrain







LEGEND

-  Dye Testing Properties
-  Storm Drain
-  Sewer
-  Underdrain



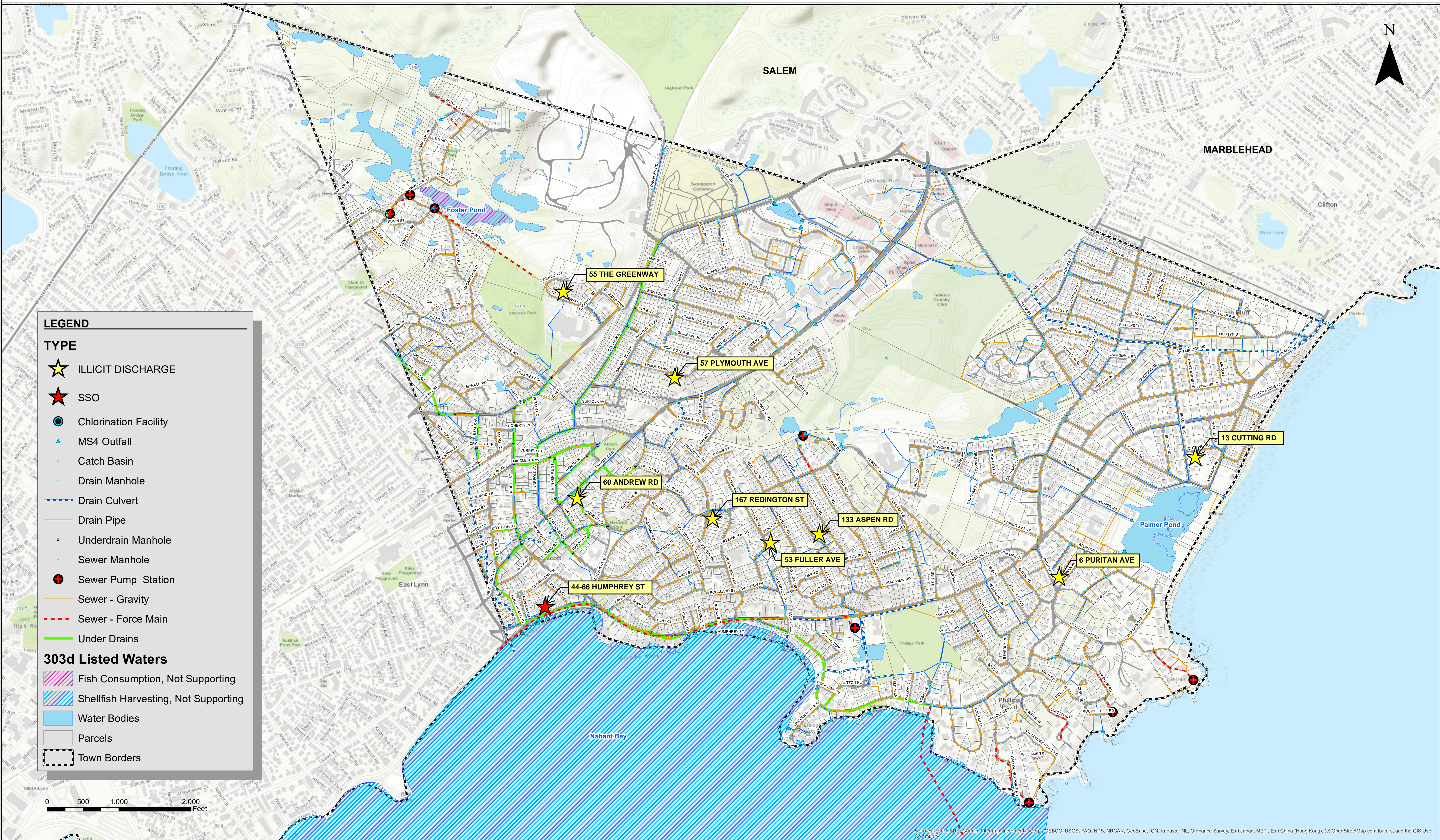
LEGEND

-  Dye Testing Properties
-  Storm Drain
-  Sewer
-  Underdrain



Appendix C

SSO and Illicit Discharge Map



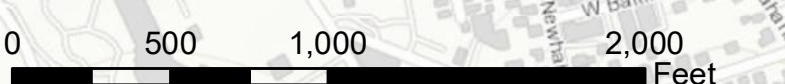
LEGEND

TYPE

- ★ ILLICIT DISCHARGE
- ★ SSO
- Chlorination Facility
- ▲ MS4 Outfall
- Catch Basin
- Drain Manhole
- Drain Culvert
- Drain Pipe
- Underdrain Manhole
- Sewer Manhole
- Sewer Pump Station
- Sewer - Gravity
- Sewer - Force Main
- Under Drains

303d Listed Waters

- ▨ Fish Consumption, Not Supporting
- ▨ Shellfish Harvesting, Not Supporting
- Water Bodies
- Parcels
- Town Borders



The information contained on this graphic representation has been compiled from a variety of sources and is subject to change without notice. The user of this information is advised to verify the accuracy, completeness, timeliness, or any other aspect of the information contained on this graphic representation at the risk of the user's reliance on the information.



PROJECT NO.	20203446
DRAWN:	9/1/2021
DRAWN BY:	JVR
CHECKED BY:	DFS
FILE NAME:	Compliance Reporting

APPENDIX C	
ILLICIT DISCHARGE & SSO LOCATIONS	
REPORTING PERIOD: 2/1/21 to 7/31/21	
EPA Consent Decree Swampscott, Massachusetts	