



REGION 1

NEW ENGLAND REGIONAL LABORATORY
NORTH CHELMSFORD, MA 01863

Finalized

Date: Dated as shown on electronic signature(s)

Subject: Reconnaissance and Sampling Inspection Report
Clean Water Act – National Pollutant Discharge Elimination System
Bridgeport, CT

From: Anna Hatke, Inspector
Laboratory Services and Applied Science Division (LSASD)
Field Services Branch (FSB)

ANNA HATKE

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ANNA HATKE
Date: 2024.12.02
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Reviewed

By: Jerome Keefe, Investigations Team Leader
LSASD-FSB

**JEROME
KEEFE**

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JEROME KEEFE
Date: 2024.12.02 16:37:49
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To: Elliot Anderson, Inspector
Enforcement and Compliance Assurance Division (ECAD)
Water Compliance Section 1

CC: Todd Borci, Manager
ECAD -Water Compliance Section 1

I. Facility Information

- A. Facility Name:* City of Bridgeport, CT
- B. Facility Location:* Bridgeport, CT
- C. Facility Contact:* Lauren Mappa, P.E. - GM,
Lauren.mcbennettmappa@bridgeportct.gov , (203) 332-5605
- D. NPDES Permit ID:* CTR030017 (MS4)

II. Background Information

- A. Date/Start time of Reconnaissance inspection:* 9/24/2024 09:13
- B. Weather conditions:* Sunny-partly cloudy approx. 60°F
- C. USEPA Representatives:* Anna Hatke, Nafisah Ali, Jerry Keefe
- D. State/Local Representatives:* N/A

A. Date/Start time of sampling inspection: 10/22/2024 08:14

B. Weather conditions: Sunny, clear, approx. 58°F

C. USEPA Representatives: Anna Hatke, Nafisah Ali

D. State/Local Representatives: N/A

E. Federally Enforceable Requirements Investigated: Stormwater discharges and certain non-stormwater discharges from the City of Bridgeport, CT Municipal Separate Storm Sewer

Systems (MS4) are authorized by the National Pollutant Discharge Elimination System (NPDES) General Permit for the Discharge of Stormwater from Small MS4 (hereinafter, the Permit), issued by the Environmental Protection Agency (EPA) Region 1. The City obtained coverage under the Permit with NPDES Permit ID CTR030017.

F. Pollutants Sampled: Pharmaceuticals and Personal Care Products (PPCPs), Enterococcus, Ammonia (nitrogen), Total Chlorine, and Surfactants

III. Disclaimer:

Unless otherwise noted, this report describes conditions at the facility/property as observed by EPA inspector(s), and/or through records provided to and/or information reported to EPA inspector(s) by facility representatives and as understood by the inspector(s). This report may not capture all operations or activities ongoing at the time of the inspection. This report does not make final determinations on potential areas of concern. Nothing in this report affects EPA's authorities under federal statutes and regulations to pursue further investigation or action.

IV. Type and Purpose of Inspection(s)

The purpose of the reconnaissance inspection was to locate stormwater outfalls which discharge into the Long Island Sound, while noting appearance, presence of flow, and access requirements for one or more sampling inspections.

The purpose of the compliance sampling inspection was to identify potential illicit connections or illegal discharges within the Bridgeport, CT MS4 that may adversely impact the water quality along the Long Island Sound. Samples were collected from 1 location in accordance with the FSB Investigations Team Stormwater Program Plan.

V. Permittee Details

The City of Bridgeport is a coastal town that occupies approximately 19.4 square miles in Fairfield County, CT, 16.0 of those square miles being land and 3.4 square miles being water. Bridgeport is located approximately 49 miles southwest of Hartford, CT. The City shares borders with the municipalities of Trumbull to the north, Stratford to the east, and Fairfield to the west. According to the 2020 U.S. Census, the population of Bridgeport, CT was 148,654.

VI. 07/23/2024 Reconnaissance Inspection Summary

On September 24th, 2024, EPA Inspectors Anna Hatke, Nafisah Ali and Jerry Keefe conducted an unannounced reconnaissance inspection of the Bridgeport, CT MS4 at the locations described in Section VIII, including locations described under the map of the sample locations. They were not accompanied by any city or state representatives. The inspection started near 104 Seabright Ave, Bridgeport, CT at approximately 09:13. At the time of the inspection, the weather was partly cloudy and approximately 60°F.

According to the National Weather Service (NWS) for Igor/Sikorsky Memorial Airport, CT, the last precipitation event prior to the inspection occurred on 9/7/2024, with 0.21 inches recorded. There was not precipitation recorded within the 72 hours before the inspection. According to the NWS, in the month (to date of inspection) of September, the area observed 0.25 inches of rain, which is approximately 8.01% of the 30-year normal value of 3.12 inches. According to the US Drought Monitor, as of October 1, 2024, New Haven County is experiencing no drought conditions.

VII. 07/24/2024 Sampling Inspection Summary

On October 22, 2024, Anna Hatke and Nafisah Ali (“the EPA Inspection Team”) conducted an unannounced compliance sampling inspection of the Bridgeport MS4 at the locations described in Section VIII. They were not accompanied by any city or state representatives. The inspection started near 700 Ocean Ave, Bridgeport, CT at approximately 08:14. At the time of the inspection, the weather was sunny and clear and approximately 58 °F.

According to the National Weather Service (NWS) for Igor/Sikorsky Memorial Airport, CT, the last precipitation event prior to the inspection occurred on 10/7, 2024, with 0.16 inches recorded. There was not precipitation recorded within the 72 hours before the inspection. According to the NWS, in the month (to date of inspection) of October, the area observed 0.16 inches of rain, which is approximately 5.69% of the 30-year normal value of 2.81 inches. According to the US Drought Monitor, as of October 29, 2024, New Haven County is experiencing abnormally dry weather.

The sampling locations described in Section VIII were field screened using test kits for ammonia (nitrogen), surfactants, and total chlorine. In-situ measurements for specific conductivity, salinity, and temperature were also measured using a YSI water quality meter and recorded. Field data were recorded on field data sheets. Samples were delivered to and analyzed for enterococcus at the Complete Environmental Testing Inc., 80 Lupes Drive, Stratford, CT 06615, and PPCPs at the EPA New England Regional Laboratory in North Chelmsford, MA. Table 1 below summarizes the sampling and analytical data.

VIII. Description of Sampling Locations (in order of collection time)

Photographs depicting each sample location are included in Appendix A of this report.

- **Seabright1**: One circular concrete outfall approximately 1.5 feet in diameter, located approximately at 104 Seabright Ave. The outfall pipe is located at the northern edge of the beach. Discharge flow was approximately less than 1 gallon per minute (“gpm”) into the Long Island Sound. Sample was collected at the mouth of the outfall. No notable odor was detected. Color was clear and turbidity was low. Some organic particulates were observed.

Barnacles were observed growing along the walls of the outfall pipe. A crack in the concrete pipe was observed further up, where the pipe first exits the sand.

- **Beacon1**: One circular concrete outfall approximately 3 feet in diameter, located approximately at 2 Seabright Ave and at the base of a rock retaining wall by the coastline. Discharge was categorized as dripping at a various rate of discharge into the Long Island Sound. Sample was collected at the mouth of the outfall. A sour odor was detected. Color was clear-yellow and turbidity was low to medium. Floatables were observed, including some organic particulate matter. The mouth of the outfall was covered in marsh hay. There was garbage observed around the outfall on all sides. Note: Not enough flow to collect adequate sample volume for PPCPs, enterococcus analysis, conductivity, salinity, and temperature. Only enough discharge to analyze for ammonia, surfactants, and total chlorine.
- **Seaside1**: One circular corrugated plastic outfall approximately 1.5 feet in diameter, located approximately adjacent to Seaside Park, on Sound View Drive, Bridgeport midway down the beach front at low tide. Discharge flow was approximately 1 gallon per minute ("gpm") into the Long Island Sound. Sample was collected at the mouth of the outfall. No notable odor was detected. Color was clear and turbidity was low. The outfall pipe was approximately 50% submerged in beach substrate. No overt floatables were observed. A brownish film was observed collecting immediately downstream of the outfall.

Map of Sample Locations

Note: the locations on the map were estimated using Google Earth and are used for display purposes only.



Note:

Beacon 1: Not enough flow to collect adequate sample volume for PPCPs, enterococcus analysis, conductivity, salinity, and temperature. Only enough discharge to analyze for ammonia, surfactants, and total chlorine.

Table 1: Summary of Sampling and Analytical Data

Location	Site ID	Scabbright1	Beacon1	Seaside1
	Sample Date	10/22/2024	10/22/2024	10/22/2024
	Sample Time	09:48	10:21	11:56
Coordinates ¹ (decimal degrees)	North	41.152658	41.151499	41.1597
	West	-73.220891	-73.221969	-73.1979
YSI Meter	Salinity, ppt.	25.3	NA	22.4
	Temperature, °C	17.9	NA	17.8
	Conductivity,	34.13	NA	35.46
Field Test Kits (mg/L)	Ammonia	0.15		0.0
	Total Chlorine	0.03	0.04	0.04
	Surfactants			
Bacteria (MPN/100mL)	Enterococcus	340	NA	17
PPCPs (ng/L)	Cotinine	2.8	NA	1.8
	Acetaminophen	ND	NA	ND
	Paraxanthine	7.0	NA	2.8
	Atenolol	3.1	NA	ND
	Caffeine	13	NA	9.4
	Metoprolol	2.6	NA	ND
	Diphenhydramine	8.1	NA	0.50
	Carbamazepine	4.2	NA	0.95

Abbreviations and Notes:

1. The coordinates listed in Table 1 were derived from the map created in Google Earth, therefore the coordinates are estimates of the actual locations.

N/A: Not Analyzed

ND: Not Detected above Reporting Limit

Entero*: , Orange ≥ 500 col/100ml, Yellow ≥104-500 col/100ml, Black < 104 col/100ml

NH₃: , Orange ≥ 0.5 mg/L, Yellow ≥ 0.25 mg/L, Black < 0.25 mg/L

Cl₂: , Orange ≥ 0.3 mg/L, Yellow ≥ 0.02 mg/L, Black < 0.02 mg/L

Surfactants: , Orange ≥ 0.5 mg/L, Yellow ≥ 0.25 mg/L, Black < 0.25 mg/L (may give false positive at salinity greater than 1 ppt)

PPCPs: , Orange ≥ 10x the RL, Yellow ≥ 3x the RL; Black < 3x the RL**

* Threshold values are based on single sample maximum for Connecticut's standards for recreational salt water designated for swimming.

**See Reporting Limit (RL) values for each compound in attached Laboratory Report for Source Tracking

EPA notes while there are currently no numerical standards to compare pharmaceutical results against, it is EPA's experience that acetaminophen is the single best bacterial source tracking compound of those listed above, and any detection of this compound may indicate a source of sanitary sewage. With respect to all of the above compounds, when a sanitary sewage source is present, depending on the type of source, distance from the sample location, and the strength of the source, concentrations of these compounds may range from the low ng/l range up to thousands of ng/L.

IX. Appendix

Appendix A: Photograph Log

X. Attachments

Attachment A: Laboratory Report for PPCPs (Source Tracking) Analysis

Attachment B: Laboratory Report for Enterococcus Analysis

End of Report

Appendix A
Photograph Log



Photo 1: Seabright1 (photo taken 10/22/2024 at approx. 09:48) Outfall located near 104 Seabright Ave, discharging into the Long Island Sound. Sample point is indicated by a red X.



Photo 2: Beacon1 (photo taken 10/22/2024 at approx. 10:21 Outfall located near 2 Seabright Ave, discharging into the Long Island Sound. Sample point is indicated by a red X. (Note1: Time stamp on photo is incorrect) (Note 2: Not enough flow to collect adequate sample volume for PCP, enterococcus analysis, conductivity, salinity, and temperature. Only enough discharge to analyze for ammonia, surfactants, and total chlorine.)



Photo 3: Seaside1 (photo taken 10/22/2024 at approx. 11:56) Outfall located adjacent to Seaside Park on Soundview Drive, discharging into Long Island Sound. Sample point is indicated by a red X.

Attachment A
Laboratory Report for
Source Tracking Analysis

Author: LSASD Laboratory Services Branch
Pages: 12

Attachment B
Laboratory Report for
Enterococcus Analysis

Author: Complete Environmental
Pages: 7

End of Report

Laboratory Report

November 21, 2024

Ana Hatke
Nafisah Ali
US EPA Region 1

Project Number: 24100036
Project: MS4 Bridgeport, CT
Analysis: HPLC/MS/MS Source Tracking Analysis
EPA Chemist: Peter Philbrook

Date Samples Received by the Laboratory: 10/24/2024

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, LSBSOP-LCMS_STA.3.

The SOP is based on an EPA Regional Analytical Method developed at the EPA New England Laboratory.

Data were reviewed in accordance with the internal verification procedures described in the EPA New England Quality Manual for NERL.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

24100036\$STA

Qualifiers:

RL = Reporting limit

ND = Not Detected above Reporting limit

NA = Not Applicable due to high sample dilutions or sample interferences

NC = Not calculated since analyte concentration is ND.

J = Estimated value

J1 = Estimated value due to MS recovery outside acceptance criteria

J2 = Estimated value due to LFB result outside acceptance criteria

J3 = Estimated value due to RPD result outside acceptance criteria

J4 = Estimated value due to LCS result outside acceptance criteria

E = Estimated value exceeds the calibration range

L = Estimated value is below the calibration range

B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.

R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.

C = The identification has been confirmed by GC/MS.

A = Suspected Aldol condensation product.

N = Tentatively identified compound.

24100036\$STA

MS4 Bridgeport, CT

HPLC/MS/MS Source Tracking Analysis

Client Sample ID:	Seabright 1	Lab Sample ID:	AC16832
Date of Collection:	10/22/2024	Matrix:	Storm water
Date of Preparation:	10/29/2024	Amount Prepared:	500 mL
Date of Analysis:	11/14/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ng/L	Dilution	RL ng/L	Qualifier
486-56-6	Cotinine	2.8	1	0.40	
103-90-2	Acetaminophen	ND	1	2.0	
611-59-6	Paraxanthine	7.0	1	2.0	
29122-68-7	Atenolol	3.1	1	2.0	
58-08-2	Caffeine	13	1	4.0	
56392-17-7	Metoprolol	2.6	1	2.0	
58-73-1	Diphenhydramine	8.1	1	0.40	
298-46-4	Carbamazepine	4.2	1	0.40	

Surrogate Compounds	Recoveries (%)	QC Ranges
Phentermine-D5	0	26 - 133
Diphenhydramine-D3	95	56 - 113

Comments: There is no surrogate recovery for phentermine D5 as it was not spiked into the sample (due to supply chain issues).

MS4 Bridgeport, CT

HPLC/MS/MS Source Tracking Analysis

Client Sample ID:	Dup 1	Lab Sample ID:	AC16833
Date of Collection:	10/22/2024	Matrix:	Storm water
Date of Preparation:	10/29/2024	Amount Prepared:	500 mL
Date of Analysis:	11/14/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ng/L	Dilution	RL ng/L	Qualifier
486-56-6	Cotinine	2.8	1	0.40	
103-90-2	Acetaminophen	ND	1	2.0	
611-59-6	Paraxanthine	4.9	1	2.0	
29122-68-7	Atenolol	2.9	1	2.0	
58-08-2	Caffeine	15	1	4.0	
56392-17-7	Metoprolol	2.1	1	2.0	
58-73-1	Diphenhydramine	8.2	1	0.40	
298-46-4	Carbamazepine	3.9	1	0.40	

Surrogate Compounds	Recoveries (%)	QC Ranges
Phentermine-D5	0	26 - 133
Diphenhydramine-D3	96	56 - 113

Comments: There is no surrogate recovery for phentermine D5 as it was not spiked into the sample (due to supply chain issues).

MS4 Bridgeport, CT

HPLC/MS/MS Source Tracking Analysis

Client Sample ID:	Seaside 1	Lab Sample ID:	AC16834
Date of Collection:	10/22/2024	Matrix:	Storm water
Date of Preparation:	10/29/2024	Amount Prepared:	500 mL
Date of Analysis:	11/14/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ng/L	Dilution	RL ng/L	Qualifier
486-56-6	Cotinine	1.8	1	0.40	
103-90-2	Acetaminophen	ND	1	2.0	
611-59-6	Paraxanthine	2.8	1	2.0	
29122-68-7	Atenolol	ND	1	2.0	
58-08-2	Caffeine	9.4	1	4.0	
56392-17-7	Metoprolol	ND	1	2.0	
58-73-1	Diphenhydramine	0.50	1	0.40	
298-46-4	Carbamazepine	0.95	1	0.40	

Surrogate Compounds	Recoveries (%)	QC Ranges
Phentermine-D5	0	26 - 133
Diphenhydramine-D3	98	56 - 113

Comments: There is no surrogate recovery for phentermine D5 as it was not spiked into the sample (due to supply chain issues).

MS4 Bridgeport, CT

HPLC/MS/MS Source Tracking Analysis

Client Sample ID:	Dup 2	Lab Sample ID:	AC16835
Date of Collection:	10/22/2024	Matrix:	Storm water
Date of Preparation:	10/29/2024	Amount Prepared:	500 mL
Date of Analysis:	11/14/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ng/L	Dilution	RL ng/L	Qualifier
486-56-6	Cotinine	1.9	1	0.40	
103-90-2	Acetaminophen	ND	1	2.0	
611-59-6	Paraxanthine	1.2	1	2.0	L
29122-68-7	Atenolol	ND	1	2.0	
58-08-2	Caffeine	8.8	1	4.0	
56392-17-7	Metoprolol	ND	1	2.0	
58-73-1	Diphenhydramine	0.52	1	0.40	
298-46-4	Carbamazepine	1.0	1	0.40	

Surrogate Compounds	Recoveries (%)	QC Ranges
Phentermine-D5	0	26 - 133
Diphenhydramine-D3	103	56 - 113

Comments: There is no surrogate recovery for phentermine D5 as it was not spiked into the sample (due to supply chain issues).

L = Below calibration range, reported for QC purposes (Field Duplicate)

Samples in Batch:

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix:	Storm water
Date of Preparation:	10/29/2024	Amount Prepared:	500 mL
Date of Analysis:	11/14/2024	Percent Solids:	N/A
Dry Weight Prepared:	N/A	Extract Dilution:	1
Wet Weight Prepared:	N/A	pH:	N/A

CAS Number	Compound	Concentration ng/L	Dilution	RL ng/L	Qualifier
486-56-6	Cotinine	ND	1	0.40	
103-90-2	Acetaminophen	ND	1	2.0	
611-59-6	Paraxanthine	ND	1	2.0	
29122-68-7	Atenolol	ND	1	2.0	
58-08-2	Caffeine	ND	1	4.0	
56392-17-7	Metoprolol	ND	1	2.0	
58-73-1	Diphenhydramine	ND	1	0.40	
298-46-4	Carbamazepine	ND	1	0.40	

Surrogate Compounds	Recoveries (%)	QC Ranges
Phentermine-D5	0	26 - 133
Diphenhydramine-D3	89	56 - 113

Comments:

MATRIX SPIKE (MS) RECOVERY

PARAMETER	SPIKE ADDED ng/L	SAMPLE CONCENTRATION ng/L	MS CONCENTRATION ng/L	MS % REC	QC LIMITS (% REC)
Acetaminophen	120	5.0	105	83	55 - 99
Atenolol	120	ND	113	94	24 - 160
Caffeine	240	8.8	229	92	34 - 131
Carbamazepine	24.0	2.9	24.0	88	61 - 107
Cotinine	24.0	2.7	26.1	98	48 - 112
Diphenhydramine	24.0	2.9	24.5	90	17 - 112
Metoprolol	120	ND	115	96	31 - 137
Paraxanthine	120	2.4	79.7	64	41 - 132

Laboratory Fortified Blank (LFB) Results

PARAMETER	LFB AMOUNT SPIKED ng/L	LFB RESULT ng/L	LFB RECOVERY %	QC LIMITS %
Acetaminophen	120	104	87	45 - 106
Atenolol	120	116	97	33 - 129
Caffeine	240	223	93	41 - 120
Carbamazepine	24	24.4	102	63 - 108
Cotinine	24	22.7	95	55 - 106
Diphenhydramine	24	20.0	83	15 - 113
Metoprolol	120	125	104	41 - 122
Paraxanthine	120	135	112	52 - 115

Comments:

Samples in Batch: AC16824, AC16825, AC16826, AC16827, AC16828, AC16829, AC16830, AC16831, AC16832, AC16833, AC16834, AC16835

Laboratory Duplicate Results

PARAMETER	SAMPLE RESULT ng/L	SAMPLE DUPLICATE RESULT ng/L	PRECISION RPD %	QC LIMITS
Acetaminophen	ND	ND	NC	50
Atenolol	ND	ND	NC	50
Caffeine	18.0	17.2	4.6	50
Carbamazepine	0.55	0.52	5.6	50
Cotinine	2.0	2.17	9.2	50
Diphenhydramine	0.45	0.38	17	50
Metoprolol	ND	ND	NC	50
Paraxanthine	ND	ND	NC	50

Samples in Batch: AC16824, AC16825, AC16826, AC16827, AC16828, AC16829, AC16830, AC16831, AC16832, AC16833, AC16834, AC16835

**US EPA REGION 1
SAMPLE RECEIPT CHECKLIST**

PROJ #: 24100036	RECEIPT DATE: 10/24/24
SURVEY NAME: MS4 Bridgeport, CT LOCATION: Bridgeport, CT	REC'D BY: Laura Glowacki (ESAT)
OSC/PO: Nafisah Ali and Anna Hatke	SITE ID: SUPERFUND: N ☒

WERE SAMPLES SHIPPED? _____	COMMENTS: Storm water samples 4 #SSTA
TRACKING #: _____	
DATE/SENT: _____	
NO. Hand Delivered ☒	
COOLER TEMPERATURE UPON ARRIVAL: _____ °C / NA	
CHAIN OF CUSTODY PRESENT? Y ☒	
COMPLETE? Y ☒	
CUSTODY SEALS PRESENT ON COOLER? N ☒	
SAMPLES? N ☒	
WERE SAMPLE CONTAINERS INTACT? Y ☒	
WAS SAMPLE PRESERVATION DOCUMENTED? N ☒	
COC Sample Container	
APPROPRIATE SAMPLES VOLUME	
FOR REQUESTED ANALYSIS? Y ☒	
SAMPLES AND COC MATCH? Y ☒	
IF ANY PROBLEMS WAS PROJECT MANAGER NOTIFIED? BY WHOM? _____	
APPROPRIATE SAMPLE CONTAINERS? Y ☒	
SAMPLES WITHIN HOLDING TIMES? Y ☒	
ALL ANALYSIS SPECIFIED ON COC? Y ☒	
DATE/TIME OF COLLECTION ON COC Y ☒	
TURN-AROUND TIME: 4 weeks	



Client: Ms. Nafisah Ali

11 Technology Drive
North Chelmsford, MA 01863

Analytical Report

CET# 24J0586

Report Date: October 23, 2024
Project: EPA, Bridgeport CT MS4



Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199

New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

CET # : 24J0586

Project: EPA, Bridgeport CT MS4

SAMPLE SUMMARY

The sample(s) were received at 11.1°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
Seabright 1	24J0586-01	Water	10/22/2024 9:48	10/22/2024
Dup 1	24J0586-02	Water	10/22/2024 9:48	10/22/2024
Seaside 1	24J0586-03	Water	10/22/2024 11:56	10/22/2024
Dup 2	24J0586-04	Water	10/22/2024 11:56	10/22/2024

Analyte: Enterococcus Bacteria [Enterolert]

Analyst: JMB

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
24J0586-01	Seabright 1	340	10	MPN/100 mL	1	BJ42369	10/22/2024	10/22/2024 13:30	
24J0586-02	Dup 1	340	10	MPN/100 mL	1	BJ42369	10/22/2024	10/22/2024 13:30	
24J0586-03	Seaside 1	17	10	MPN/100 mL	1	BJ42369	10/22/2024	10/22/2024 13:30	
24J0586-04	Dup 2	29	10	MPN/100 mL	1	BJ42369	10/22/2024	10/22/2024 13:30	

CET # : 24J0586

Project: EPA, Bridgeport CT MS4

QUALITY CONTROL SECTION

Analyte	Result	RL	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Surrogate:



80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration Batch	An analytical standard analyzed with each set of samples to verify initial calibration of the system. Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.



Connecticut Laboratory Certification PH0116
Massachusetts Laboratory Certification M-CT903
Pennsylvania NELAP Accreditation 68-02927

New York NELAP Accreditation 11982
Rhode Island Certification 199

Complete Environmental Testing, Inc.

80 Lupes Drive, Stratford, CT 06615 • Tel: 203-377-9984 • Fax: 203-377-9952 • www.cetlabs.com

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Jeffrey Smith at 203-377-9984.

Sincerely,

This technical report was reviewed by Timothy Fusco



David Ditta
Laboratory Director



Project Manager

This report shall not be reproduced except in full, without the written approval of the laboratory

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- *C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- *C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- *F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- *F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- *I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>Enterolert in Water</i>	
Enterococcus Bacteria	CT

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2024

24J0586



COMPLETE ENVIRONMENTAL TESTING, INC.

Volatile Soils Only:

Date and Time in Freezer

Client:

CET:

CHAIN OF CUSTODY

[illegible]

*** Additional Charges apply.**

**** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 1 p.m. on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.**

Page 7 of 7

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